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# High Security & Safety

ASSA ABLOY High Security & Safety Group provides a complete range of solutions and leading products for the custodial, transport, utilities, finance, government and health sectors.





# Custodial

ASSA ABLOY High Security & Safety Group (HSS) is the UK and global leader in correctional locking solutions. In this section, you will be able to examine our extensive product range, developed in close consultation with industry professionals and individually tailored to respond to the challenges faced by detention facilities, the world over, every day.

# Custodial

3F11/3F12

## Motorised Slam Action Lock

**ASSA ABLOY**

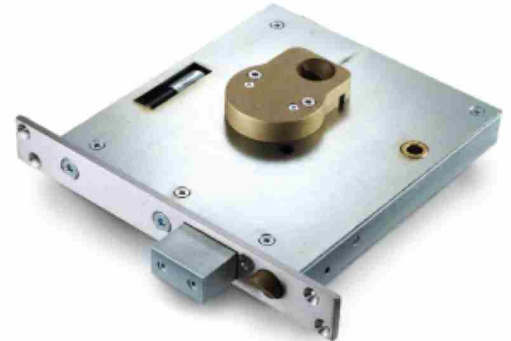
### Application:

#### Purpose

To provide secure locking of swinging doors or gates that can be unlocked from a remote location using third party security management systems (SMS) or by conventional key control. Designed to enable key and electric operation from one (3F11) or both (3F12) sides of the door.

#### Overview

The 3F11/3F12 are mortice locks of robust construction based on the Chubb Locks Custodial Services large mortice footprint. The locks are designed to deadlock automatically and to be unlocked electrically with bolt withdrawal by a motorised mechanism.



### Specification:

#### Unlocking

- **Electric Operation** – Remote switch activates the locking solenoid and the locking dead bolt is withdrawn by the motor. When fully withdrawn the locking deadbolt is latched in position ready for the relocking operation.
- **Mechanical Operation** – Locking mechanism is operated by a mechanical key that lifts the locking solenoid and withdraws the locking dead bolt. When fully withdrawn the locking dead bolt is latched in position ready for the relocking operation.

#### Locking

- The lock automatically deadlocks when the door/gate is closed.

#### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- Heavy duty gear and motor designed to operate under high load.
- Steel main bolt with tungsten carbide anti cut rollers.
- Solenoid electric locking latch.
- 5-detainer key override mechanism.
- Lock provides status monitoring of critical functions.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3F11 / 3F12 group of locks only.

#### Performance/Testing/Criteria

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Motor/gearbox tested to a minimum of 1,000,000 cycles.
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.
- End load 8.0 kN
- Side Load 13.5 kN

#### Additional Items

- Outer steel case (Gatebox) for use when fitted to a

# Custodial

3F11/3F12

## Motorised Slam Action Lock

**ASSA ABLOY**

steel door

- Locking plate (Keep)
- Door cable (to connect the lock to door header / junction box terminations)
- Keys – silica brass (ordered separately to the lock)

### Dimensions & Weights (Approx)

Case Height	207mm
Case Length	238mm
Case Thickness	29mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only approx)	10.5kg

Dimensioned customer drawings are available upon request.

### Finish:

- Lock case - carbon steel electro-plated.
- Main bolts - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Escutcheons – Silica brass.
- Detainers and springs – Brass / phosphor Bronze.

#### Application:

##### Purpose

To provide secure locking of swinging cell/bedroom doors with a 'privacy' locking facility under operation by the occupant, from within the accommodation unit only. Locks detailed in this specification also include an integral Door In Frame Sensor (DIF) to indicate the door status when used in conjunction with a suitable DIF magnet.

##### Overview

The 3F65P is a mortice lock of robust construction based on the CLCS standard large mortice lock footprint with a main bolt that can be locked in the fully thrown or fully withdrawn position. Locking is achieved by a completely separate, interchangeable inner locking unit, operable from the outside only, the vertically sliding bolt of which, engages a recess in the main bolt.

A privacy facility is also provided allowing a secondary privacy bolt to be locked or unlocked by anti-ligature furniture from the inside of the accommodation. The privacy bolt can be overridden by a key holder by extending and then withdrawing the main bolt. A clutch mechanism fitted to the internal furniture ensures that staff members always remain in control of the privacy bolt.



#### Specification:

##### Principal of Operation

- **Locking / Unlocking of the Main Bolt –**  
Locking/unlocking is achieved by a partial turn of the key and handle operation to throw or withdraw the bolt. On withdrawing the key the main bolt will be automatically left locked in the position chosen (i.e. fully thrown or unlocked). Withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown.
- **Locking / Unlocking of the Privacy Bolt –** The occupant's 'Privacy' bolt can be locked / unlocked from within the accommodation unit via the anti-ligature furniture fitted to the inside of the door. However, the door cannot be opened from the inside if the main bolt is extended and secured in frame. In addition withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown. A cover plate can also be fitted to the external side of the door to provide emergency access to the privacy mechanism.

##### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- 32mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers.
- Independent 7-lever locking mechanism (ILU).
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Status monitoring outputs of (1) Door in Frame, (2) Main Bolt Extended (3) ILU Status
- Privacy locking / unlocking operable from within the

### Morticed Mechanical Privacy Lock - Monitored

accommodation via door mounted furniture or via override by the main bolt or by removing the external cover plate.

#### Performance/Testing/Standards

- Mechanical locking mechanism tested to a minimum of 100,000 operations
- Main bolt handle mechanism tested to a minimum of 300,000 bolt operations
- Saw attack on the main bolt 12 hours
- End load 13.5 kN
- Side Load 25 kN

#### Additional Items

- Handle and escutcheon kits (not supplied with the lock). Kits can be supplied to suit various functional requirements, door thicknesses and aesthetic requirements.
- Frame mounted magnet assembly (to operate with the integral DIF sensor)
- Locking plate with integral magnet assembly.
- Gate Box
- Door cable
- Reinforcing plates for use on wooden doors
- Privacy Cylinder for corridor side of door

#### Dimensions & Weights

Case Height	207mm
Case Length	226mm
Case Thickness	29mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	11kg

#### Finish:

- Lock case – carbon steel electro-plated and powder coated exterior.
- Main bolt – carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel.
- Levers and springs – Brass / phosphor Bronze.

## Application:

### Purpose

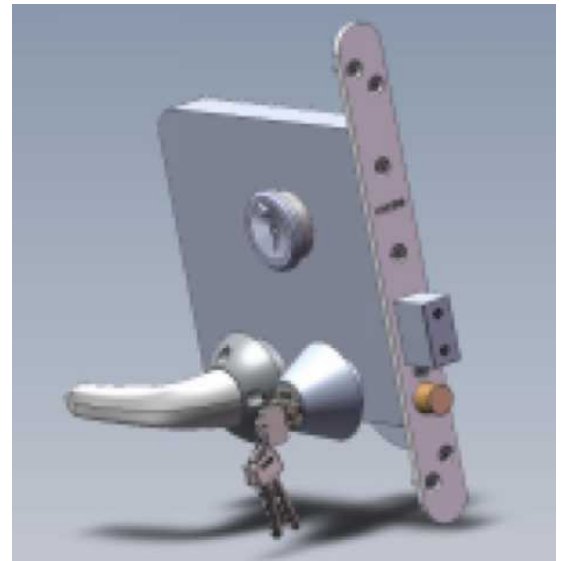
To provide secure locking of swinging cell/bedroom doors with a 'privacy' locking facility under operation by the occupant.

### Overview

The 3F65P is a mortice lock of robust construction based on the CLCS standard large mortice lock footprint with a main bolt that can be locked in the fully thrown or fully withdrawn position. Locking is achieved by a completely separate, interchangeable inner locking unit, operable from the outside only, the vertically sliding bolt of which, engages a recess in the main bolt.

A Privacy Key Facility is also provided allowing a secondary privacy bolt to be locked or unlocked by a key operated rim cylinder lock on the outside and anti-ligature furniture on the inside. The Privacy bolt can be overridden by extending and then withdrawing the main bolt and a clutch mechanism ensures that staff remain in control. The cylinder is also master keyed to provide staff control of the privacy mechanism.

- **Locking unit** – The locking unit is a self-contained 7-lever lock, independently mounted on pillars, and can be quickly removed and replaced by another such complete unit, when a change of combination is necessary. The bolt of this unit shoots downwards into a cutaway formation on the main bolt and retains it in the withdrawn or fully thrown position.
- **Main Bolt** – Locking/unlocking is achieved by a partial of the key and handle operation to throw or withdraw the bolt. On withdrawing the key the main bolt will be automatically left locked in the position chosen (i.e. fully thrown or unlocked). Withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown.
- **Under Occupant's Key** – The occupant's 'Privacy' bolt can be locked/unlocked from outside by a keyed cylinder lock or from inside by a handle or knob.



## Standards:

- Mechanical locking mechanism tested to a minimum of 100,000 operations
- Handle mechanism tested to a minimum of 300,000 bolt operations
- Privacy cylinder tested to a minimum of 100,000 operations
- Saw attack on the main bolt 12 hours
- End load 13.5 kN
- Side Load 25 kN

## Specification:

### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 32mm throw.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Privacy locking via pin tumbler cylinder

### Additional Features

- External lever handle or dial knob options for staff operation.



#### Additional Items

- Outer steel case (Gatebox) when fitted to a steel door
- Locking plate (Keep)

#### Dimensions & Weights

Case Height	207mm
Case Length	226mm
Case Thickness	29mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	11kg

#### Finish:

- Lock case – carbon steel electro-plated and powder coated exterior.
- Main bolt – carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

#### Application:

##### Purpose

To provide secure locking of swinging cell doors, under conventional key control from the corridor side where automatic latching and deadlocking using a key is a requirement.

##### Overview

The 3R47 is a morticed sprung latch bolt lock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. The latch bolt provides an overall throw of 20mm. The lock offers a number of keying and handle configurations to suit a variety of operational requirements and is fitted with an external visual indicator. Secure locking can be achieved as follows:

##### Single Locking Action -Keyed to pass or to differ

- Locking is achieved by inserting the key into the keyhole and rotating fully. This action will both deadlock the latchbolt and lock the handle in position.
- Unlocking is achieved by inserting a key into the keyhole and rotating fully. This action will release the latchbolt and unlock the handle. The latchbolt is then withdrawn using the handle.

##### Double Locking Action

##### Singles Key – Operates single locking action only

- Locking / Unlocking as above.

*Note the Servant key will not operate the double locking action.*

##### Doubles Key – Operates double locking action

- Locking, providing the singles key has been used to operate the first locking action, the master key can be utilised. By inserting the doubles key into the keyhole and rotating fully over-locking will be achieved. The singles key will be disabled and unauthorised use of the singles key will be prevented.
- Unlocking is achieved by inserting the doubles key into the keyhole and rotating fully, this action will remove the over-locking enabling operation of the singles key.

*Note: the lock can be configured to operate the double locking action only or if required to operate both single and double locking actions from a single key.*



#### Specification:

##### Features

- Carbon steel latchbolt, with carbide anti-cutting rollers and 20mm throw.
- 7 lever highly durable mechanism.
- Configurable to three key options – Single Action (1 key), Double Action (1 key) or Double Action (2 keys).
- Dedicated key profile operates 3R47 range of locks only.
- Tamper resistant Aluminium fascia plate with status indicator.
- Security fixings to prevent unauthorised removal.

##### Performance

- Lock tested to a minimum of 100,000 key operations.

### Morticed Latch Lock

- Handle operation tested to 300,000 operations.
- Latch action tested to 150,000 operations.
- Saw attack 30 minutes
- End load 13.5 kN
- Side Load 13.5 kN

#### **Additional Features**

- Optional inner handle available on request.
- Suitable for internal use only.
- Available in alternative furniture finishes on request.
- Gate boxes for steel door applications recommended.

#### **Total Range**

- The lock is available in left or right hand variants for opening in or opening out doors and can be fitted to steel or wooden doors. For applications requiring cell side furniture a range of options are available on request.
- Lock is suitable for use on all door types, however on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.

#### **Dimensions & Weights**

Lockcase depth	171.5mm
Lockcase length	114.2mm
Lockcase width	21.0mm
Weight (lock only)	3.0kg

#### Application:

##### Purpose

To provide secure locking of swinging cell doors, under conventional key control where automatic deadlocking is a requirement.

##### Overview

The 4L55 and 4L56 are surface mounted locks of robust construction based on the Chubb Lock Custodial Services standard cell lock footprint. The main bolt is automatically extended providing a throw of 32mm and deadlocked on closure of the door.

The 4L55 is designed to be mounted flush with the door skin whereas the 4L56 is designed to be mounted on the door skin itself.

**Note:** An alternative fixing method can be used to enable mounting of the 4L56 variant flush with the door skin.

Secure locking is achieved as follows:

- Unlocking is achieved by a partial turn of the key which lifts the internal blocking mechanism enabling the withdrawal of the main bolt by the handle. The bolt is then retained automatically when fully retracted and door is out of frame.
- Locking is achieved automatically; on closure of the door the brass snib bolt is depressed on contact with the strike plate mounted to the frame this then releases the main bolt. Deadlocking occurs when the main bolt is fully extended allowing the internal blocking mechanism to engage.
- The lock has an external visual indicator mechanism, which enables staff to verify the status of the lock.



#### Specification:

##### Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers and 32mm throw.
- Brass quick acting stud release mechanism.
- External visual locking status indication.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- 5 bolt secure fixing.
- Integral baffle arrangements to resist interference via the keyhole.
- Escutcheon designed to give positive key alignment.

##### Performance

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Handle mechanism tested to a minimum of 300,000 bolt operations.
- Stud release mechanism tested to a minimum of 300,000 operations
- Saw attack 12 hours
- End load 20 kN
- Side Load 25 kN

#### Additional Features

- Range of Anti-Ligature or 'T' handle furniture options available.
- Range of fixings including backplates, stud fixings, locking plate and keeps.
- Available in alternative paint / furniture finishes on request.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.
- Interchangeable mechanical inner locking unit to enable re-coding.
- Can be configured to differ or to pass.

#### Total Range

- The lock is available in left or right hand variants for opening in or opening out doors and can be fitted to steel or wooden doors. A range of backplate stud lengths is available to suit door thicknesses from 25 to 70mm.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Case Height	286mm
Case Length	267mm
Case Thickness	30mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only) 4L55	10.5kg
Weight (lock only) 4L56	12.0kg

#### Finish:

- Lock case - carbon steel electro-plated and powder coated exterior.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys - Hardened Steel
- Levers and springs - Brass / phosphor Bronze.

### Application:

#### Purpose

To provide secure locking of swinging cell doors, under conventional key control where a lock back facility is a requirement.

#### Overview

The 4L65 is a surface mounted lock of robust construction based on the Chubb Lock Custodial Services standard cell lock footprint. The main bolt is an un-sprung rectangular deadbolt providing of throw of 32mm. Variants of the lock allow for mounting on or flush with the door skin.

Secure locking is achieved as follows:

- Locking/unlocking is achieved by a partial turn of the key allowing the handle to throw or withdraw the bolt. When the key is withdrawn the main bolt can be left in two positions fully thrown (i.e secure when door in frame) or bolt fully withdrawn and locked back.



### Specification:

#### Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 32mm throw.
- External visual locking status indication.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- 5 bolt secure fixing.
- Integral baffle arrangements to resist interference via the keyhole.
- Escutcheon designed to give positive key alignment.

#### Performance

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Handle mechanism tested to a minimum of 100,000 bolt operations.
- Saw attack 12 hours
- End load 13.5 kN
- Side Load 25 kN

#### Additional Features

- Range of furniture options available.
- Range of fixings including backplates, stud fixings, locking plate and keeps.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.
- Interchangeable mechanical inner locking unit to enable re-coding.
- Can be configured to differ or to pass.
- Main Bolt and Inner Locking Unit can have monitoring facility.

#### Total Range

- The lock is available in left or right hand variants and can be fitted to steel or wooden doors. A range of backplate stud lengths is available to suit door thicknesses from 25 to 70mm.
- Fully dimensioned customer drawings are available on

request to assist with door preparation.

#### **Dimensions & Weights**

Case Height	286mm
Case Length	267mm
Case Thickness	29mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	12kg

#### **Finish:**

- Lock case - carbon steel electro-plated and powder coated exterior.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

#### Application:

##### Purpose

To provide secure locking of swinging cell doors, under conventional key control. Additional "privacy" locking mechanism to provide a level of privacy and security for the cell occupant, the privacy function can always be overridden by the staff key.

##### Overview

The 4L65P is a surface mounted lock of robust construction based on the Chubb Lock Custodial Services standard cell lock footprint. The main bolt is an un-sprung rectangular deadbolt providing of throw of 32mm. Variants of the lock allow for mounting on or flush with the door skin.

- Locking/unlocking is achieved by a partial of the key and handle operation to throw or withdraw the bolt. On withdrawing the key the main bolt will be automatically left locked in the position chosen (i.e. fully thrown or unlocked). Withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown.
- Under Occupant's Key – The occupant's 'Privacy' bolt can be locked/unlocked from outside by a keyed cylinder lock or from inside by a handle or knob.



#### Specification:

##### Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers and 32mm throw.
- External visual locking status indication.
- Independent 7-lever locking mechanism.
- Factory restricted key sections.
- 5 bolt secure fixing.
- Integral baffle arrangements to resist interference via the keyhole.
- Privacy facility using secondary mechanism.
- Internal knob with clutch mechanism to ensure staff always have control of lock
- Escutcheon designed to give positive key alignment.

##### Performance

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Handle mechanism tested to a minimum of 100,000 bolt operations.
- Saw attack 12 hours
- End load 13.5 kN
- Side Load 25 kN

##### Additional Features

- Range of furniture options available.
- Range of fixings including backplates, stud fixings, locking plate and keeps.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.
- Interchangeable mechanical inner locking unit to enable



### Mechanical Cell Lock With Privacy Facility

re-coding.

- Can be configured to differ or to pass.
- Main Bolt and Inner Locking Unit can have monitoring facility.

#### Total Range

- The lock is available in left or right hand variants and can be fitted to steel or wooden doors. A range of backplate stud lengths is available to suit door thicknesses from 25 to 70mm.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Case Height	286mm
Case Length	267mm
Case Thickness	30mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	12kg

#### Finish:

- Lock case - carbon steel electro-plated and powder coated exterior.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.
- Inside knob Stainless Steel

#### Application:

##### Purpose

To provide secure locking of swinging cell doors using third party security management systems (SMS) or conventional key control, whilst providing a means for remote occupant release and bolt withdrawal via an internal handle.

##### Overview

The 4L78 is a surface mounted lock of robust construction based on the Chubb Lock Custodial Services standard cell lock footprint. The main bolt is a sprung latch providing a throw of 25mm, secure locking is achieved by two independent methods:

- **Electrical Mode** – Locking/unlocking by 24 Volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle (externally by staff or internally by occupant), which should also be used when closing the door.
- **Manual Mode** – Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle, which should also be used when closing the door. Key operates from corridor side only.
- **Manual Override** – In the event of power or communication failure an override key is used to disable electric locking function. ***The lock will operate if slammed to shut, however, CLCS recommend that in normal operation the handle is used to withdraw the bolt when closing.***



#### Specification:

##### Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 25mm throw.
- Dual solenoid electric locking latch.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Lock provides status monitoring outputs for critical functions and tamper.
- 5 bolt secure fixing.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.

##### Performance

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Handle mechanism tested to a minimum of 300,000 bolt operations
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.
- Saw attack 12 hours
- End load 13.5 kN
- Side Load 25 kN

##### Additional Features

### Electro-Mechanical Cell Lock

- Can be configured to provide cell side furniture to be used where remote release is desirable.
- Range of fixings including backplates, stud fixings, locking plate and keeps.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.
- Interchangeable mechanical inner locking unit to enable re-coding.
- This lock is not available under a master key system.

#### Total Range

- The lock is available in left or right hand variants for opening in or opening out doors and can be fitted to steel or wooden doors. A range of spindle and backplate stud lengths is available to suit door thicknesses from 25 to 70mm.
- Detailed technical details are available on request for this product.

#### Dimensions & Weights

Case Height	286mm
Case Length	267mm
Case Thickness	30mm
Bolt Throw	25mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	12kg

#### Finish:

- Lock case - carbon steel electro-plated and powder coated exterior.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

#### Application:

##### Purpose

To provide secure locking of swinging cell doors using third party access control systems or conventional key control where automatic deadlocking is a requirement.

##### Overview

The 4L79 is a surface mounted lock of robust construction based on the Chubb Locks Custodial Services standard cell lock footprint. The main bolt is automatically extended providing a throw of 32mm and deadlocked on closure of door.

- **Electrical Mode** – Deadlocking is achieved when the door is closed and the bolt fully extended, no electric input is required to lock. Unlocking by 24 Volt DC from an external source to energise (lift) the locking solenoid and withdrawing the bolt via the handle. The bolt remains retracted when fully withdrawn and out of frame. Solenoid is designed to be momentarily energised to facilitate un-locking.
- **Mechanical Locking** – Locking achieved using conventional (mechanical key) to engage a secondary deadlock when the door is in frame and main bolt is fully extended. Electric unlocking cannot be achieved while the mechanical locking mechanism is engaged.
- **Manual Override** – In the event of power or communication failure an override key is used to lift (override) the electric locking unit. Both keys are supplied to a different combination and are clearly identified.



#### Specification:

##### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 32mm throw.
- Unique solenoid electric locking latch.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Lock provides status output of critical functions.
- 5 bolt secure fixing.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.

##### Performance/Testing/Standards

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Handle mechanism tested to a minimum of 300,000 bolt operation.
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Solenoids designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 250mA.
- Saw attack 12 hours
- End load 8.0 kN

### Electromechanical Slam Action Cell Lock

- Side Load 25 kN

#### Additional Features

- Anti-Ligature handle and escutcheon design.
- Range of fixings including back plates, stud fixings, locking plate and keeps.
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock)
- This lock is not available under a master key system.

#### Options

- The lock is available in left or right hand variants for opening in or opening out doors and can be fitted to steel or wooden doors.

#### Dimensions & Weights

Case Height	286mm
Case Length	267mm
Case Thickness	30mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	12kg

#### Finish:

- Lock case - carbon steel electro-plated and powder coated exterior.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

## Application:



### Purpose

To provide a self latching mechanism to secure a food hatch in the closed position on a cell door whilst featuring a lever mechanism that can be unlocked with a Chubb 4L type key.

### Overview

The 4L80 is an open rimmed latch lock that is designed to be mounted within the door of a custodial cell door food hatch. The latch bolt is not deadlocked and therefore the food hatch door can be closed without the need for the key. A 4L type key is then used to withdraw the latch bolt to enable opening of the food hatch door. The 4L80 can be keyed alike with the 4L lock variant on the same door if required.

### Principal of Operation

Unlocking of the Latch Bolt & Opening The Food Hatch Door

1. Insert the key into the keyhole and rotate x degrees clockwise to withdraw the latch bolt.
2. Hold the key and latch bolt in position and pull on the key to open the food hatch door.
3. Rotate the key anticlockwise and withdraw.

Locking of the Food Hatch Door

1. Simply push the door to the closed position, the latch will withdraw and then re-extend to the closed position.
- Note: the latch is not deadlocked.

### Standard Features

- 3 Lever latch withdrawal mechanism
- 12 mm throw latch bolt.
- Factory restricted key section.
- Open case design

## Specification:

### Product Codes

- 4L80/001/01/S – Cell Door Food Hatch Lock

### Additional Items - Keys

- 4L55/060/01/MK – Cell Lock Key (Master)
- 4L55/060/01/SK – Cell Lock Key (Servant)
- 4L55/060/01/W – Cell Lock Key (Stock Code W919)

### Dimensions & Weights

- **Case Height** – 87.5 mm
- **Case Length** – 80 mm
- **Case Thickness** – 20.5 mm
- **Latch bolt throw** – 12 mm
- **Latch bolt depth** – 20.4 mm

All dimensions are approximate – customer drawing available upon request.

## Finish:

## Standards:

### Performance/Testing Criteria

- Latch bolt closure 60,000 operations
- Key unlock 60,000 operations

#### **Materials and Finishes**

- Lock case – carbon steel electro-plated
- Latch bolt – brass
- Levers – brass
- Keys – Hardened Steel

### Application:

#### Purpose

To provide secure locking of swinging cell doors using third party security management systems (SMS) or conventional key control. The lock can be configured to provide a softer aesthetic appearance without reducing security.

#### Product Codes

- 3F51/002/01/S LOCK ASSY RIGHT HAND REVERSE
- 3F51/002/02/S LOCK ASSY LEFT HAND REVERSE
- 3F51/002/03/S LOCK ASSY RHR ANTI LIG DOME HDLS
- 3F51/002/04/S LOCK ASSY LHR ANTI LIG DOME HDLS

#### Overview

The 3F51 is a mortice lock of robust construction. The main bolt is a sprung latch providing a throw of 25mm, secure locking is achieved by two independent methods:

**Electrical Mode:** Locking/unlocking by 24 volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when closing the door.

**Manual Mode:** Locking/unlocking achieved using conventional (mechanical) key. Bolt withdrawal by handle, which should also be used when closing the door. Key operates from corridor side only.

**Manual Override:** In the event of power or communication failure an override key is used to disable electric locking function.

The lock will operate if slammed to shut, however, we recommend that in normal operation the handle is used to withdraw the bolt when closing.

#### Standard Features

- Solid Case Technology - lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers and 25mm throw.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.
- Unique dual solenoid electric locking latch.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.

### Specification:

#### Dimensions & Weights

- Case Height – 206 mm
- Case Length – 229 mm
- Case Thickness – 29 mm
- Dead bolt throw – 25 mm
- Dead bolt depth – 45 mm
- Dead bolt thickness – 22 mm
- Weight (lock only) – 12.5Kg

All dimensions are approximate – customer drawing available upon request.



### Standards:

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Saw attack on the main bolt 12 hours.
- Side and End Load 13.5KN
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.



### Finish:

#### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - carbon steel electro-plated.
- **Main bolt follower** - high tensile brass.
- **Keys** - hardened steel.
- **Levers and springs** - Brass/phosphor bronze.

#### Options

- Various furniture options are available upon request

#### Additional Items

- Gatebox
- Lock interface unit for operation with commercial access control systems
- Door cable

### Application:

#### Purpose

To provide secure locking of swinging cell doors, under conventional key control where automatic deadlocking is a requirement.

#### Product Codes

3F56/002/01/S - RHOI STD ILU to suit T handle  
3F56/002/03/S - LHOI STD ILU to suit T handle  
3F56/002/05/S - RHOI STD ILU to suit lever handle  
3F56/002/06/S - RHOI STD ILU to suit lever handle  
3F56/002/07/S - LHOI STD ILU to suit lever handle  
3F56/002/08/S - LHOI STD ILU to suit lever handle  
3F56/003/01/S - RHOI SUITED ILU to suit lever handle  
3F56/003/02/S - LHOI SUITED ILU to suit lever handle  
3F56/003/03/S - RHOI SUITED ILU to suit lever handle  
3F56/003/04/S - LHOI SUITED ILU to suit lever handle

#### Overview

The 3F56 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. The main bolt is automatically extended providing a 32mm throw and deadlocked on closure of the door (4.8mm gap maximum - forend to mating surface).

Secure unlocking / locking is achieved as follows:

Unlocking is achieved by a partial turn of the servant key which lifts the internal blocking mechanism enabling the withdrawal of the main bolt by the handle. The bolt is then retained automatically when fully retracted and the door is out of frame.

Locking is achieved automatically; on closure of the door the brass snib bolt is depressed on contact with the strike plate mounted to the frame, this then releases the main bolt. Deadlocking occurs when the main bolt is fully extended allowing the internal blocking mechanism to engage.

Use of the master key (by rotating the top of the key towards the front of the lockcase when the ILU bolt is in the locked position) will further extend the ILU bolt which disables use of the servant key. The servant key can be re enabled by rotating the top of the master key towards the rear of the lockcase.

#### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with integral passive magnet, carbide anti-cutting rollers, and 32mm throw.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.



### Standards:

- Mechanical locking mechanism tested to a minimum of 100,000 operations
- Handle mechanism tested to a minimum of 300,000 bolt operations
- Saw attack on the main bolt 12 hours
- End load 13.5 KN
- Side Load 25 KN

### Specification:

#### Lock Dimensions (Approx)

- Case Height - 207mm
- Case Length - 220mm
- Case Thickness - 29mm

## 3F56

### Heavy duty morticed mechanical slam action cell lock

- Bolt Throw – 32mm
- Bolt Depth – 45mm
- Bolt Thickness – 22mm

Dimensioned customer drawings are available upon request.

#### Finish:

##### Materials and Finishes

- Lock case – Carbon steel electro-plated.
- Main bolt – Carbon steel electro-plated.
- Main bolt follower - High tensile brass.
- Levers and springs – Brass / phosphor Bronze.

##### Additional Items

- Keys – hardened steel (ordered separately to the lock)
- 3F56/052/01/S – Lever Handle Furniture Kit RH
- 3F56/052/02/S – Lever Handle Furniture Kit LH
- Other furniture options available upon request

## Application:

### Purpose

To provide secure locking of swinging cell doors, under conventional key control where a lock back facility is a requirement. The lock can be configured to provide a softer aesthetic appearance without reducing security.

### Product Codes

3F65/002/01/S LOCK ASSY RIGHT HAND REVERSE

3F65/002/02/S LOCK ASSY LEFT HAND REVERSE

### Overview

The 3F65 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. The main bolt is an un-sprung rectangular deadbolt providing a throw of 32mm.

Locking/unlocking is achieved by a full turn of the key allowing the handle to throw or withdraw the bolt. When the key is withdrawn the main bolt can be left in two positions - fully thrown (ie secure when door in frame) or bolt fully withdrawn and locked back.

### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 32mm throw.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist interference via the keyhole.
- Escutcheon designed to give positive key alignment.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.

### Additional Features

- Optional external status indicator.
- Can be keyed to the existing CLCS 4L range of cell locks.
- Interchangeable mechanical inner locking unit to enable re-coding.
- Can be configured to differ, to pass or under a master key scheme.



## Standards:

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Saw attack on the main bolt 12 hours.
- Side and End Load 13.5KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

## Specification:

### Dimensions & Weights

- **Case Height** – 206 mm
- **Case Length** – 229 mm
- **Case Thickness** – 29 mm
- **Dead bolt throw** – 25 mm
- **Dead bolt depth** – 45 mm
- **Dead bolt thickness** – 22 mm
- **Weight** (lock only) – 12.5Kg

All dimensions are approximate – customer drawing available upon request.

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - carbon steel electro-plated.
- **Main bolt follower** - high tensile brass.
- **Keys** - hardened steel.
- **Levers and springs** - Brass/phosphor bronze.

##### Additional Items

- Range of furniture options available.
- Range of fixings including gatebox, locking plate and keep.

## Application:

### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging cell doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile. The key is supplied to enable an override (unlocking) for the electric locking if power fails.

Note (1): The Chubb 5 lever mechanism fitted to the 3L215 can not be used to mechanically lock the latch bolt – it can only be used to unlock the electric locking mechanism.

Note (2): The Chubb 5 lever mechanism fitted to the 3L215 can not be master keyed. Please contact CLCS if a master key mechanism is required as an alternative product is available.

Note (3): The latch bolt can only be withdrawn by operating the handle mechanism.

### Overview

The 3L215 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended. The latch bolt cannot be electrically locked back when fully withdrawn.

### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is engaged. Unlocking is achieved by 24 Volt DC supply from an external source to energise (lift) the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the unlocked state when the door is out of frame.

### Manual Override

In the event of power or communication failure an override key is used to override the solenoid locking bolt.

### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever override mechanism.
- Factory restricted key section.
- Status output – secure / insecure
- Pick resistant mechanism with protective curtain.

### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).

## Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2

### Mortice electro-mechanical cell lock with DIF sensor

- This lock can be supplied in groups keyed alike.

#### Finish:

##### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

##### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Handle & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 – Chrome Silver Painted
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated with Triklad high performance Trivalent Coating
- **Lock Installation Cable** - Standard 3 or 10 metre pre wired cable or site cable available upon request.

## Application:

### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging cell doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile or as an option Chubb 7 lever master keyed locking unit. The key is supplied to allow the lock to be mechanically secured and monitored.

### Overview

The 3L217 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended and door inframe. The latch bolt cannot be electrically locked back when fully withdrawn.

### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is energised +24 Volt DC to engage. Unlocking is achieved by de-energising the 24 Volt DC supply from an external source to lift the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the locked state when the door is in frame.

### Manual Override

The lock is not provided with a manual override. If power fails the locking solenoid will automatically disengage.

### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever locking mechanism.
- Locks can be keyed alike or keyed to differ
- Factory restricted key section.
- Status output – secure / insecure, door inframe and mechanical locking status.
- Pick resistant mechanism with protective curtain.

### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).
- This lock can be supplied in groups keyed alike.
- Master keyed option using Chubb 7 lever mechanism.



## Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2

## Specification:

### Materials and Finishes



### Mortice electro-mechanical cell lock with DIF sensor

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate to CM5 M1047
- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

#### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Knob & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 - Polished and plated.
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated to CM5 M1047
- **N35 Magnet** - BN017A 6MM X 25MM
- **Lock Installation Cable** - 3 or 10 metre (or custom length to suit)

### Application:

#### Purpose

Latch bolt lock to provide electric and mechanical locking / unlocking of swinging cell doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid and a Chubb 7 lever mechanical mechanism can also be used to both lock and unlock the 3L218. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked either mechanically or electrically.

#### Overview

The 3L218 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended and the door is in frame. The latch bolt cannot be locked back when fully withdrawn.

#### Electrical Mode

Locking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is engaged. Unlocking is achieved by 24 Volt DC supply from an external source to energise (lift) the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the unlocked state when the door is out of frame.

#### Mechanical Mode

Mechanical dead locking is achieved using a conventional Chubb mechanical key and 7 lever mechanical mechanism to engage a secondary deadlock when the main bolt is fully extended. Electric unlocking cannot be achieved while the mechanical locking mechanism is engaged.

#### Manual Override

In the event of power or communication failure an override key is used to override the solenoid locking bolt. Both keys, Mechanical and Override, are supplied to a different combination and are clearly identified.

#### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Chubb 7-lever override and mechanical deadlock mechanism.
- Factory restricted key section.
- 1 metre fly lead without connected socket
- Status output – secure / insecure / deadlocked

#### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock as standard).
- Door cable available in 3M or 10M lengths (not supplied with lock).
- This lock can be supplied in groups keyed alike.

### Standards:

- Mechanical override mechanism tested to a minimum of 100,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2

### Finish:

#### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate with Triklad high performance

### Mortice electro-mechanical cell lock with DIF sensor

Trivalent Coating

- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Keys** - Mild Steel to BS EN10083 – C22E Natural

#### **Additional Items / Furniture**

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Handle & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 – Chrome Silver Painted
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated with Triklad high performance Trivalent Coating
- **Lock Installation Cable** - 3 or 10 metre pre wired cable or site cable available upon request.

## Application:

### Purpose

To provide secure locking of swinging pass doors controlled by Atlas® LCMS software or conventional key control. Atlas® LCMS software provides a range of operating functionality which can be configured to suit each site.

### Overview

The 3A63 is a mortice lock of robust construction based on the Chubb Locks Custodial Services standard large mortice footprint. The main bolt extends by 25mm and is operated turning the handle to both lock and unlock. The lock is designed to accept inputs from tokens and can be programmed to enable a range of time / date driven access permissions. Locks can also be controlled remotely from a control room environment.

- **Electronic Mode** – Deadlocking is achieved by closing the door and turning the handle to fully extend the bolt. Unlocking is achieved by inserting an electronic token (key) into the lock which, after authentication, an input signal is provided to lift the blocking device and withdrawing the bolt via the handle. The lock can also be configured to provide features such as auto-relock, door insecure time out etc. Additionally remote operation can be achieved via Atlas® Client / Mimic PC.
- **Manual Mode** – Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle. Key operates from both sides of the door
- **Manual Override** – In the event of power or communication failure an override key is used to lift the electric locking unit. Both keys are supplied to a different combination and are clearly identified.



## Specification:

### Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 25mm throw.
- Solenoid electric locking latch.
- Visual lock status indication via LED.
- Intelligent lock which will continue to operate in the absence of LCMS server.
- Independent 8-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.

### Performance

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Handle mechanism tested to a minimum of 1,000,000 bolt operations
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.

### ATLAS® Electronic Pass Lock

- Nominal operating current 500mA .
- Saw attack 12 hours
- End load 13.5 kN
- Side Load 25 kN

#### Additional Features

- Robust handle and escutcheon design.
- T-handle
- Range of fixings including gate box, transition plates with fixings and locking plate.
- Interchangeable mechanical inner locking unit to enable re-coding.
- This lock is not available under a master key system.

#### Total Range

- The lock is available in left or right hand variants and can be fitted to steel or wooden doors.

#### Dimensions & Weights

Case Height	208mm
Case Length	239mm
Case Thickness	29mm
Bolt Throw	25mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	10.4kg

#### Finish:

- Lock case - carbon steel electro-plated.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

## Application:

### Purpose

To provide secure deadlocking of swinging doors or gates where an enhanced level of security is necessary. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes.

### Overview

The 3G112 Mark 1 is a mortice deadlock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. The mechanical deadbolt provides an overall throw of 34mm which comprises an initial throw of 17mm and a second throw of a further 17mm.

The lock is designed so that the doubles key will perform both the first and second throw, while the singles key will operate the first throw only.

The lock is operable from both sides with separate key holes for each key type. The escutcheon is designed to prevent the incorrect key being inserted into the lock.

Secure locking is achieved by two independent keys:

### Singles Key – Operates first throw only

- Locking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will extend the bolt to its first position.
- Unlocking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will withdraw the bolt.

**Note** the singles key will not operate the second (doubles) throw.

### Doubles Key – Operates first and second throw

- Locking, by inserting the doubles key into the offset keyhole and rotating fully the bolt can be thrown to its first position. A further rotation of the key will throw the bolt to its second position, preventing the servant key operating the lock.
- Unlocking is achieved by inserting the doubles key into the offset keyhole and rotating fully. This action will withdraw the bolt to either enable operation under servant key or by a further rotation to fully withdraw the bolt to unlock.

**Note** the doubles key will operate both throws.



## Specification:

### Features

- Composite deadbolt, with carbide anti-cutting rollers and 34mm throw.
- 16 lever highly durable mechanism.
- Independent single and double actions.
- Low friction key journals.
- Lever arrangement designed to provide extended product life.
- Dedicated key profiles.
- Escutcheon designed to give positive key alignment.
- Security fixings to prevent unauthorised removal.

### Performance

- Lock tested to a minimum of 500,000 key operations.

## 3G112 Mark 1

### Morticed Deadlock – Double Action

- Saw attack 12 hours
- End load 13.5kN
- Side Load 13.5 kN

#### Additional Features

- Suitable for external and internal use.
- Range of fixings including reinforcing plates and locking plates.
- Available in alternative furniture finishes on request.
- Can be keyed with 3M56 Mark 1 Hook Bolt
- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Rebate kit available for wooden door applications
- Monitored versions available with micro-switch sensing of bolt position.
- Single sided version available on request.
- Singles key operation only version available on request.
- Doubles key operation only version available on request.

#### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** Wooden Doors: This lock should be fitted to a wooden door with a minimum thickness of 54mm. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase height	114mm
Lockcase width	21mm
Weight (lock only)	2.1kg

#### Finish:

- Lock case – carbon steel electro-plated.
- Bolt – stainless steel and brass composite.
- Escutcheons – silica brass
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze

#### Application:

##### Purpose

To provide secure deadlocking of swinging doors or gates where an enhanced level of security is necessary. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes.

##### Overview

The 3G112 Mark 2 is a mortice deadlock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. The mechanical deadbolt provides an overall throw of 34mm which comprises an initial throw of 17mm and a second throw of a further 17mm.

The lock provides two independent bolt throws where each throw is operated by a unique key. The keys are designed so that neither key will perform the function of the other key.

The lock is operable from both sides with separate key holes for each key type. The escutcheon is designed to prevent the wrong key being inserted into the lock.

Secure locking is achieved by two independent keys:

##### Singles Key – Operates first throw only

- Locking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will extend the bolt to its first position.
- Unlocking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will withdraw the bolt.

**Note** the Singles key will not operate the second (Doubles) throw.

##### Doubles Key – Operates second throw only

- Locking, providing the singles key has been used to operate the first throw, the doubles key can be utilised. By inserting the doubles key into the offset keyhole and rotating fully the bolt will be thrown to its maximum extent and preventing operation by the servant key.
- Unlocking is achieved by inserting the doubles key into the offset keyhole and rotating fully, this action will withdraw the bolt to enable operation under servant key.

**Note** the Doubles key will not operate the first (Single) throw.



#### Specification:

##### Features

- Composite deadbolt, with carbide anti-cutting rollers and 34mm throw.
- 16 lever highly durable mechanism.
- Independent single and double actions.
- Low friction key journals.
- Lever arrangement designed to provide extended product life.
- Dedicated key profiles.
- Escutcheon designed to give positive key alignment.
- Security fixings to prevent unauthorised removal.

##### Performance



## 3G112 Mark 2

### Morticed Deadlock – Double Action

- Lock tested to a minimum of 500,000 key operations.
- Saw attack 12 hours
- End load 13.5kN
- Side Load 13.5 kN

#### Additional Features

- Suitable for external and internal use.
- Range of fixings including reinforcing plates and locking plates.
- Available in alternative furniture finishes on request.
- Can be keyed with 3M56 Mark 2 Hook Bolt
- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Rebate kit available for wooden door applications
- Monitored versions available with micro-switch sensing of bolt position.
- Single sided version available on request.
- Singles key action only, version available on request.

#### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** Wooden Doors: This lock should be fitted to a wooden door with a minimum thickness of 54mm. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase height	114mm
Lockcase width	21mm
Weight (lock only)	2.1kg

#### Finish:

- Lock case - carbon steel electro-plated.
- Bolt – stainless steel and brass composite.
- Escutcheons – silica brass
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze.

#### Application:

##### Purpose

To provide secure locking of swinging pass / control doors and gates where positive locking by a mechanical key is required.

##### Overview

The 3G112 Mark 3 is a mortice deadlock of robust construction based on the Chubb Locks Custodial Services small mortice lock footprint. The mechanical deadbolt provides a throw of 17mm.

The lock provides deadlocking operated by a unique key profile to the Mark 3 range of locks and will not operate Mark 1 or Mark 2 lock variants. The lock is operable from both sides and the escutcheon is designed to allow only the correct key profile to be inserted into the lock.

**Note:** This lock cannot be master keyed.



#### Specification:

##### Principal of Operation

- **To Deadlock** – Insert the key in to the escutcheon and rotate once (top of the key rotates towards the door edge)
- **To Unlock** – Insert the key in to the escutcheon and rotate once (top of the key rotates away from the door edge)

##### Standard Features

- Heavy Duty Electroplated Steel cap and case
- 17mm throw laminated bolt fitted with anti-saw Tungsten Carbide rollers
- 12 lever key mechanism (6 for the purpose of differing)
- Factory restricted hardened steel one piece key
- Nylon key journals moulded to the cap and case to increase wear resistance
- Security fixing screws
- Microswitch versions feature bolt status monitoring

##### Performance/Testing/Criteria

- Mechanical locking mechanism tested to a minimum of 500,000 operations
- Saw attack on the main bolt 12 hours
- End load 13.5 kN
- Side Load 13.5 kN
- Impact tested to UK Government requirements

##### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** Wooden Doors: This lock should be fitted to a wooden door with a minimum thickness of 54mm. Please contact CLCS for guidance if alternative wooden door thicknesses are required.

##### Dimensions & Weights (Approx)

Case Height	114mm
Case Length	171mm
Case Thickness	21mm

Bolt Throw	17.4mm
Bolt Depth	58.7mm
Bolt Thickness	16.5mm
Weight (lock only)	2.5kg

#### Finish:

- Lock case – carbon steel electro-plated
- Main bolt – stainless steel bolt tail with brass bolt heads and running blocks. Stainless Steel bolt head & blocks are available
- Escutcheons – investment cast brass natural
- Faceplate – Brass
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

#### Application:

##### Purpose

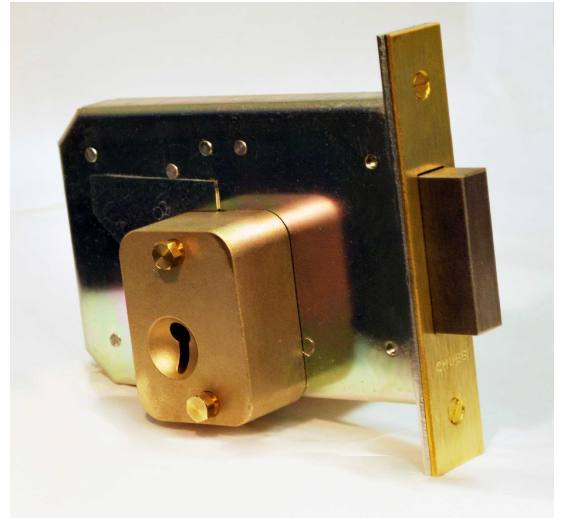
To provide secure deadlocking of swinging doors or gates where a greater range of keying options is desirable. This lock is designed for high usage applications and is also suitable for specialised applications such as explosive containers and armouries.

##### Overview

The 3G317 is a mortice deadlock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. The mechanical deadbolt can be supplied with single throw of 20mm or a double throw of 40mm. The lock is can be supplied with key operation from both sides or from one side only.

Unlocking / Locking is achieved by turning the key fully which extends and withdraws the deadbolt. The lock can be configured to operate under a number of key control arrangements which are as follows:

- **Single key – single throw deadlock** – Keyed to differ.
- **Master keyed – single throw deadlock** – Keyed to differ or to pass in groups under a common master key.
- **Twin keyed, double throw, double action deadlock** – Singles key operates first throw only and doubles key operates second throw only. Doubles key locks out unauthorised use of singles key when second throw is operated.
- **Twin keyed, double throw, double action deadlock** – Singles key operates first throw only and doubles key operates both first and second throw. Doubles key locks out unauthorised use of singles key when second throw is operated.



#### Specification:

##### Features

- Carbon steel deadbolt, with carbide anti-cutting rollers and 40mm maximum throw.
- 7 detainer manipulation resistant locking mechanism.
- Independent Single and Doubles actions available.
- Precision machined and hardened bolt thrower.
- Dedicated key profile operates 3G317 range of locks only.
- Escutcheon designed to give positive key alignment.
- Security fixings to prevent unauthorised removal.

##### Performance

- Lock tested to a minimum of 500,000 key operations.
- Saw attack 30 mins
- End load 9 kN
- Side Load 13.5 kN

##### Additional Features

- Suitable for external and internal use.
- Range of fixings including reinforcing plates and locking plates.
- Available in alternative furniture finishes on request.
- Cannot be keyed with any other locks in the CLCS range.
- Key designed to enable quick and easy re-alignment of displaced throwers.

### Morticed Deadlock

- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Rebate kit available for wooden door applications.
- Monitored versions available with micro-switch sensing of bolt position.
- Single sided version available on request.

#### Total Range

- The lock is generally not handed, however when keyed from one side only the lock is handed. For use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** CLCS recommend this lock is used in conjunction with a wooden door 54mm thick. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase length	114.2mm
Lockcase width	21.5mm
Weight (lock only)	3kg

#### Finish:

- Lock case – carbon steel electro-plated.
- Bolt – carbon steel electro-plated.
- Escutcheons – silica brass
- Keys – hardened steel
- Detainers and springs – brass / phosphor bronze.

## Application:

### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging pass doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile. The key is supplied to enable an override (unlocking) for the electric locking if power fails.

Note (1): The Chubb 5 lever mechanism fitted to the 3L215 can not be used to mechanically lock the latch bolt – it can only be used to unlock the electric locking mechanism.

Note (2): The Chubb 5 lever mechanism fitted to the 3L215 can not be master keyed. Please contact CLCS if a master key mechanism is required as an alternative product is available.

Note (3): The latch bolt can only be withdrawn by operating the handle mechanism.

### Overview

The 3L215 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended. The latch bolt cannot be electrically locked back when fully withdrawn.

### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is engaged. Unlocking is achieved by 24 Volt DC supply from an external source to energise (lift) the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the unlocked state when the door is out of frame.

### Manual Override

In the event of power or communication failure an override key is used to override the solenoid locking bolt.

### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever override mechanism.
- Factory restricted key section.
- Status output – secure / insecure
- Pick resistant mechanism with protective curtain.

### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).
- This lock can be supplied in groups keyed alike.

## Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F

### Finish:

#### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO - Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

#### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Handle & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 – Chrome Silver Painted -
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated with Triklad high performance Trivalent Coating -
- **Lock Installation Cable** - Standard 3 or 10 metre pre wired cable or site cable available upon request.

## Application:

### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging pass doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile. The key is supplied to allow the lock to be mechanically secured and monitored.

### Overview

The 3L217 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended and door in frame. The latch bolt cannot be electrically locked back when fully withdrawn.

### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is energised +24 Volt DC to engage. Unlocking is achieved by de-energising the 24 Volt DC supply from an external source to lift the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the locked state when the door is in frame.

### Manual Override

The lock is not provided with a manual override. If power fails the locking solenoid will automatically disengage.

### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever locking mechanism.
- Locks can be keyed alike or keyed to differ
- Factory restricted key section.
- Status output – secure / insecure, door inframe and mechanical locking status.
- Pick resistant mechanism with protective curtain.

### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).

This lock can be supplied in groups keyed alike.



## Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2

## Finish:

### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate to CM5 M1047



3L217.002

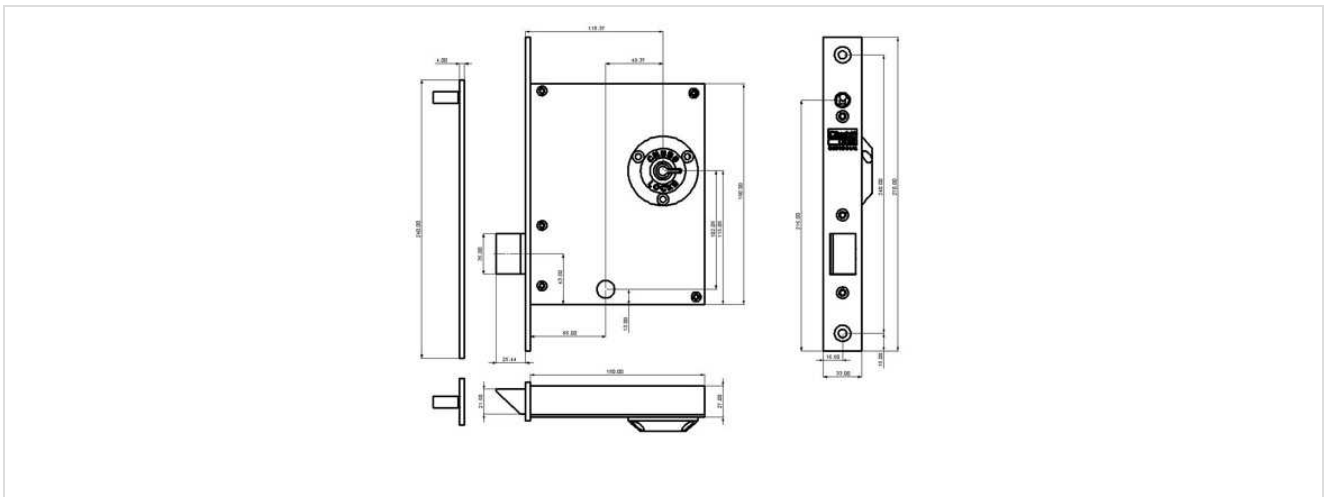
## Morticed electro-mechanical pass lock with DIF sensor

- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Knob & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 - Polished and plated.
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated to CM5 M1047
- **N35 Magnet** - BN017A 6MM X 25MM
- **Lock Installation Cable** - 3 or 10 metre (or custom length to suit)

### Technical Design:



### Application:

#### Purpose

To provide secure deadlocking of sliding doors or gates where an enhanced level of security is necessary. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes.

#### Overview

The 3M56 Mark 2 is a mortice hook bolt lock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. Twin locking laminated and hardened hooks are used to provide positive engagement in the frame with maximum strength.

The lock provides two independent throws of the anchor bolt where each throw is operated by a different key profile. The keys are designed so that neither key will perform the function of the other key.

The lock is operable from both sides with separate key holes for each key type. The escutcheon is designed to prevent the wrong key being inserted into the lock.

Secure locking is achieved by two independent keys:

#### Singles Key – Operates first throw only

- Locking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will extend the anchor bolt to expand the reinforced hooks to their fully thrown position.
- Unlocking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will withdraw the anchor bolt and retract the reinforced hooks to their rest position.
- **Note** the Singles key will not operate the second (Double) throw.

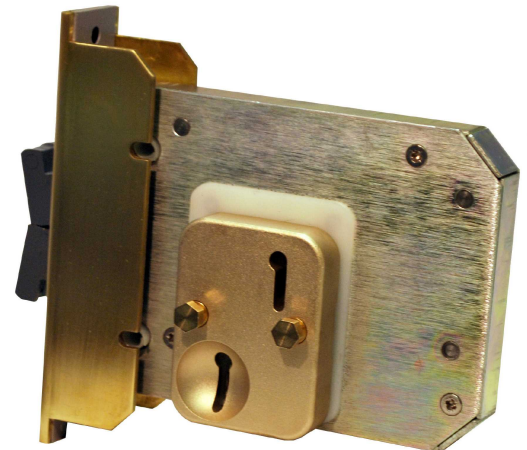
#### Doubles Key – Operates second throw only

- Locking, by inserting the Doubles key into the offset keyhole and rotating fully the anchor bolt can be thrown to its second position, preventing the Singles key operating the lock.
- **Note:** the use of the Doubles key does not engage the hooks any further.
- Unlocking is achieved by inserting the Doubles key into the offset keyhole and rotating fully, this action will withdraw the anchor bolt to its first position to enable operation under Singles key.
- **Note** the Doubles key will not operate servant throw.

### Specification:

#### Features

- Laminated and hardened hooks to resist cutting.
- Reinforcing bolts to resist forced attack.
- 16 lever highly durable mechanism.
- Independent Single and Double actions.
- Low friction key journals.
- Lever arrangement designed to provide extended product life.
- Dedicated key profiles.
- Escutcheon designed to give positive key alignment.



## 3M56 Mark 2

### Morticed Hookbolt Lock – Double Action

- Security fixings to prevent unauthorised removal.

#### Performance

- Lock tested to a minimum of 500,000 key operations.
- Saw attack 10 minutes
- End load 13.5 kN
- Pull test load 13.5 kN

#### Additional Features

- Suitable for external and internal use.
- Specially designed forend and fascia locking plates.
- Available in alternative furniture finishes on request.
- Can be keyed with 3G112 Mark 2 Deadbolt
- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Monitored versions available with micro-switch sensing of bolt position.
- Single sided version available on request.
- Singles key action only, version available on request.

#### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** CLCS recommend this lock is used in conjunction with a wooden door 54mm thick. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase length	141.2mm
Lockcase width	21mm
Weight (lock only)	3kg

#### Finish:

- Lock case - carbon steel electro-plated.
- Anchor bolt – stainless steel and carbon steel composite.
- Hook bolts – hardened steel.
- Escutcheons – silica brass
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze

#### Application:

##### Purpose

To provide secure deadlocking of sliding doors or gates where an enhanced level of security is necessary. This lock is specifically designed for very high use applications; typically securing internal doors and main access routes.

##### Overview

The 3M56 Mark 3 is a mortice hook bolt lock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. Twin locking laminated and hardened hooks are used to provide positive engagement in the frame with maximum strength.

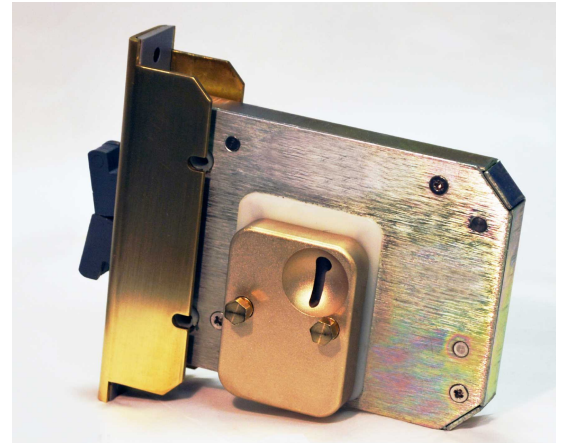
The lock provides deadlocking operated by a unique key profile to the Mark 3 range of locks and will not operate Mark 1 or Mark 2 lock variants.

The lock is operable from both sides and the escutcheon is designed to allow only the correct key profile being inserted into the lock.

The lock cannot be Master Keyed.

Secure locking is achieved by:

- Locking is achieved by inserting the key into the dished keyhole and rotating fully, this action will extend the anchor bolt to expand the reinforced hooks to their fully thrown position.
- Unlocking is achieved by inserting the key into the dished keyhole and rotating fully, this action will withdraw the anchor bolt and retract the reinforced hooks to their rest position.



#### Specification:

##### Features

- Laminated and hardened hooks to resist cutting.
- Reinforcing bolts to resist forced attack.
- 12 lever highly durable mechanism.
- Low friction key journals.
- Lever arrangement designed to provide extended product life.
- Dedicated key profiles.
- Escutcheon designed to give positive key alignment.
- Security fixings to prevent unauthorised removal.

##### Performance

- Lock tested to a minimum of 500,000 key operations.
- Saw attack 10minutes
- End load 13.5 kN
- Pull test load 13.5 kN

##### Additional Features

- Suitable for external and internal use.
- Specially designed forend and fascia locking plates.
- Available in alternative furniture finishes on request.
- Can be keyed with 3G112 Mark 3 Deadbolt
- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Monitored versions available with micro-switch sensing of bolt position.

### Morticed Hookbolt Lock – Single Action

- Single sided version available on request.

#### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** CLCS recommend this lock is used in conjunction with a wooden door 54mm thick. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase height	141.2mm
Lockcase width	21mm
Weight (lock only)	3kg

#### Finish:

- Lock case - carbon steel electro-plated.
- Anchor bolt – stainless steel and carbon steel composite.
- Hook bolts – hardened steel.
- Escutcheons – silica brass
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze

#### Application:

##### Purpose

To provide secure locking of swinging passage / control doors using third party security management systems (SMS) or conventional key control. Designed to enable key and electric operation from both sides of the door. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes.

##### Overview

The 3R63 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. It has a substantial bolt designed to be withdrawn by means of a large 'T' handle or lever handle, on either side of the lock, whether opening or closing the door. The face of the bolt is angled so that it will slam shut in an emergency, but excessive slamming is not recommended and may lead to premature wear and failure. Locking is achieved by means of a completely separate (and interchangeable) inner locking unit, operable from either side, the vertically sliding bolt of which, engages in a recess in the main bolt: alternatively, a plunger controlled by the solenoid unit, operates in a similar manner at the rear end of the bolt.



#### Specification:

##### Principal of Operation

- **Electrical Mode** – Locking/unlocking by 24 Volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Mode** – Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Override** – In the event of power or communication failure an override key is used to disable the electric locking function.

##### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- 25mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers
- Dual solenoid electric locking latch.
- Independent 8-lever locking mechanism.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3A63/3A73/3R63 group of locks only.

##### Performance/Testing/Standards

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Solenoid locking unit tested to a minimum of 1,000,000

## 3R63

### Electromechanical Mortice Pass Lock

cycles.

- Saw attack on the main bolt 12 hours.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.
- End load 13.5 kN
- Side Load 25 kN

#### Additional Items

- Range of handle / knob options
- Gate Box
- Lock Interface Unit to facilitate operation by commercial access control systems
- Door cable
- Reinforcing plates for use on wooden doors

#### Dimensions & Weights

Case Height	207mm
Case Length	229mm
Case Thickness	29mm
Bolt Throw	25mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	10.5kg

Please request customer drawing for detailed information.

#### Finish:

- Lock case - carbon steel electro-plated.
- Main bolt - carbon steel electro-plated.
- Main bolt follower – high tensile brass.
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze.

## Electromechanical Mortice Pass Lock With DIF Sensor

## Application:

**Purpose**

To provide secure locking of swinging passage / control doors using third party security management systems (SMS) or conventional key control. Designed to enable key and electric operation from both sides of the door. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes. Locks detailed in this specification also include an integral Door In Frame Sensor (DIF) to indicate the door status when used in conjunction with a suitable DIF magnet.

**Overview**

The 3R63 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. It has a substantial bolt designed to be withdrawn by means of a large 'T' handle or lever handle, on either side of the lock, whether opening or closing the door. The face of the bolt is angled so that it will slam shut in an emergency, but excessive slamming is not recommended and may lead to premature wear and failure. Locking is achieved by means of a completely separate (and interchangeable) inner locking unit, operable from either side, the vertically sliding bolt of which, engages in a recess in the main bolt: alternatively, a plunger controlled by the solenoid unit, operates in a similar manner at the rear end of the bolt.



## Specification:

**Principal of Operation**

- **Electrical Mode** – Locking/unlocking by 24 Volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Mode** – Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Override** – In the event of power or communication failure an override key is used to disable the electric locking function.

**Standard Features**

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- 25mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers
- Dual solenoid electric locking latch.
- Independent 8-lever locking mechanism.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3A63/3A73/3R63 group of locks only.
- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm



### Electromechanical Mortice Pass Lock With DIF Sensor

working range)

#### Performance/Testing/Standards

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Saw attack on the main bolt 12 hours.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.
- End load 13.5 kN
- Side Load 25 kN

#### Additional Items

- Handle and escutcheon kits (not supplied with the lock). Kits can be supplied to suit various functional requirements, door thicknesses and aesthetic requirements. Contact CLCS for further details.
- Frame mounted magnet assembly (to operate with the integral DIF sensor)
- Locking plate with integral magnet assembly.
- Gate Box
- Lock Interface Unit to facilitate operation by commercial access control systems
- Door cable
- Reinforcing plates for use on wooden doors

#### Dimensions & Weights

Case Height	207mm
Case Length	229mm
Case Thickness	29mm
Bolt Throw	25mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	10.5kg

Please request customer drawing for detailed information.

#### Finish:

- Lock case – carbon steel electro-plated.
- Main bolt – carbon steel electro-plated.
- Main bolt follower – high tensile brass.
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze.

## Application:

### Purpose

To provide secure locking of swinging passage / control doors using third party security management systems (SMS) or conventional key control. Designed to enable key and electric operation from both sides of the door. This lock is specifically designed for very high use applications; typically securing perimeter gates and main access routes.

### Product Codes

3R66/001/03/S D/C PASS D'LOCK BODY ONLY  
3R66/002/01/S D/CONT P/LOCK ILU W/D NO FIX ITEMS  
3R66/002/02/S D/CONT P/LOCK ILU W/D + FIX ITEMS  
3R66/002/03/S D/CONT P/LOCK ILU S/D NO FIX ITEMS  
3R66/002/04/S D/CONT P/LOCK ILU S/D + FIX ITEMS

### Overview

The 3R66 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. It has a substantial bolt designed to be withdrawn by means of a large 'T' handle or lever handle, on either side of the lock, whether opening or closing the door. Locking is achieved by means of a completely separate (and interchangeable) inner locking unit, operable from either side, the vertically sliding bolt of which, engages in a recess in the main bolt: additionally, a plunger controlled by the solenoid unit, operates in a similar manner via an electronic management system.

### Principal of Operation

#### Electrical Mode

Locking/unlocking by 24 Volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.

#### Manual Mode

Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.

#### Manual Override

In the event of power or communication failure an override key is used to disable the electric locking function.

#### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- 25mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers
- Unique dual solenoid electric locking latch.
- Independent 8-lever locking mechanism.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3A63/3R63/3R66 group of locks only.

#### Additional Items

- Gatebox
- Lock interface unit for operation with commercial access control systems
- Door cable

- Reinforcing plates for use on timber doors

#### Finish:

##### **Materials and Finishes**

**Lock case** - carbon steel electro-plated.

**Main bolt** - carbon steel electro-plated.

**Main bolt follower** – high tensile brass.

**Keys** – hardened steel

**Levers and springs** – brass / phosphor bronze.

##### **Options**

Various furniture options are available upon request

## Application:

### Purpose

To provide a means of securing wooden doors on offices and rooms where a range of suiting options is required, and/or where a high degree of protection against all known forms of criminal attack is needed.

### Product Codes

H3G110/108/BS LOCK BODY OLD SUITE  
H3G110/108/S MORT D/LOCK O/SUIT SAT NO KEYS  
H3G110/108A/BS LOCK BODY NEW SUITE  
H3G110/108A/S MORT D/LOCK N/SUIT SAT NO KEYS  
H3G110/P211 SUITE KEYS (NON BULLETED) 1.1/2" BBB  
H3G110/P211MK MASTER KEY NON BULLETED 1.1/2" BBB  
H3G110/P213 SUITE KEY (BULLETED) 1.1/2" BBB  
H3G110/P213MK MASTER KEY (BULLETED) 1.1/2" BBB  
H3G110/P411/1/S S.O SUITED DET'S NO KEYS

### Overview

A 44mm backset mortice lock with a single dead-action bolt. The lock is constructed of formed up case, welded forend and flat cap screwed to pillars in the case. A separate stainless steel or brass faceplate is attached to the forend.

### Standard Features

- Steel Body.
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Steel key.

### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system



## Standards:

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

## Finish:

### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.

#### Application:

##### Purpose

To provide a means of securing wooden doors on offices and rooms where a range of suiting options is required, and/or where a high degree of protection against all known forms of criminal attack is needed.

##### Product Codes

H3G135/010/04/S HSMDL SAT B/SEC EX KEYS  
H3G135/010/4/ST HSMDL SAT B/SEC SUITED

##### Overview

Featuring a unique key section, available only to secure establishments the 3G135 is a 44mm backset mortice lock with a single dead-action bolt. The lock is constructed of formed up case, welded forend and flat cap screwed to pillars in the case. A separate stainless steel or brass faceplate is attached to the forend.

##### Standard Features

- Steel Body.
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

#### Application:

##### Purpose

To provide a means of securing wooden doors on offices and rooms where the use of a handle is required.

##### Product Codes

H3J60/010/03/S 1 BOLT MORT OLD SUITE NO KEYS  
H3J60/010/03A/S 1 BOLT MORT NEW SUITE NO KEYS  
H3J60/010/04/S 2 BOLT MORTICE LOCK OLD SUITE  
H3J60/010/04A/S 2 BOLT MORTICE LOCK NEW SUITE  
H3J60/010/14ABS LOCK BODIES WITHOUT DETAINERS  
H3J60/010/14BS LOCK BODIES WITHOUT DETAINERS

##### Overview

Mortice lock with formed-up case and welded Forend. Flat cap screwed to pillars in case. Horizontal construction with follower for handle at same level as keyhole.

Deadbolt operable by key only from either side (full turn to lock or unlock). Latch released by knob/handle only from either side, but will re-engage without the use of the knob/handle, under light door closing force.

##### Standard Features

- Steel Body.
- Latch bolt allowing use of a handle
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt and latch bolt**- brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.

# Custodial

3160X

Horizontal 1 bolt mortice lock

# ASSA ABLOY



#### Application:

##### Purpose

To provide a means of securing wooden doors on offices and rooms where the use of a handle is required.

##### Overview

Mortice lock with formed-up case and welded Forend. Flat cap screwed to pillars in case. Upright construction with follower for handle in line with and above the keyhole.

Deadbolt operable by key only from either side (full turn to lock or unlock). Latch released by knob/handle only from either side, but will re-engage without the use of the knob/handle, under light door closing force.

##### Product Codes

H3K70/211/S 2/B MORT LH SAT O/SUIT NO KEYS

H3K70/211A/S2/B MORT LH SAT N/SUIT NO KEYS

H3K70/212/S 2/B MORT RH SAT O/SUIT NO KEYS

H3K70/212A/S2/B MORT RH SAT N/SUIT NO KEYS

##### Standard Features

- Steel Body.
- Latch bolt allowing use of a handle
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt and latch bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.



#### Application:

##### Purpose

To provide a means of securing sliding or hinged wooden doors on offices and rooms where anti lift protection is required.

##### Product Codes

H3M50/05SA/S H/B MORT HB SCP/P N/ST NO KEYS

##### Overview

Mortice lock with formed-up case and welded Forend. Upright construction comprising hook and steady bolts, both of which withdraw completely into the case. Hook and steady bolt operated by key from either side (full turn to lock or unlock).

##### Standard Features

- Brass hookbolt with anti-padsaw steel rollers.
- Brass steady bolt to prevent the door being lifted.
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt and latch bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Tensile Load 5.0KN

#### Application:

##### Purpose

To provide a means of securing sliding wooden doors on offices and rooms where automatic closing action and anti lift protection is required.

##### Product Codes

Upon request

##### Overview

Mortice lock with formed-up case and welded Forend. Upright construction comprising hook and steady bolts, both of which withdraw completely into the case. Hook and steady bolt operated by key from either side (full turn to lock or unlock).

##### Standard Features

- Brass clutch bolt with anti-padsaw steel rollers.
- Brass stud bolt to prevent the door being lifted.
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the clutch bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Tensile Load 5.0KN

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Clutch bolt and stud bolt** - brass.
- **Clutch bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.

## 3R135X

### Upright high security mortice lock with latch bolt and snib

#### Application:

##### Purpose

To provide a means of securing swinging wooden doors on offices and rooms where a slam action and a unique key profile, for use only in high security establishments is required.

##### Product Codes

H3R135X/01/ST HOPD PRIVACY LOCK RH BRASS

H3R135X/02/ST HOPD PRIVACY LOCK LH BRASS

H3R135X/ST/BS HOPD PRIVACY LOCK BRASS BODY ONLY

##### Overview

Mortice lock with formed-up case and welded Forend. Upright construction comprising latch and snib bolts to provide auto deadlocking of the operating handle.

##### Standard Features

- Automatic deadlocking action
- Snib to hold back the bolt when the door needs to be left ajar
- Operating handle can be secured from either side
- Locking of handle can be inhibited for use as a fire escape door
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

#### Finish:

##### Materials and Finishes

- Lockcase, cap, forend and locking plate : mild steel (painted)
- Bolt head, deadlocking slide and follower : steel sinterings (nickel plated)
- Bolt tail, runner, dogging slide, detent, thrower flange and bolt stump arm : mild steel (nickel plated)
- Levers and thrower spindle : brass (natural finish)
- Lever Springs: 18/8 stainless steel
- Lever spring support : Glass reinforced nylon
- Snib follower : Mazak 3
- Thrower retaining spring : zinc plated spring steel
- Springs generally : stainless steel



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the latch bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN

## Application:

### Purpose

To provide a secure latch, operable by handle from one side or both sides, and by key from the other side or both sides, for use on wooden doors in offices and administration rooms.

### Product Codes

H3R35/207/S M.L.LATCH SS O/S EX.KEYS  
H3R35/207A/BS M.L.LATCH SS N/S EX.KEYS BODY ONLY  
H3R35/207A/S M.L.LATCH SS N/S EX.KEYS  
H3R35/208/BS M.L. LATCH BODY ONLY

### Overview

The lock is primarily designed to have a handle on one side of the door only. In "latched only" state i.e. having just pushed door to, the bolt can be withdrawn by means of the handle (from inside) or by partial turn of the key (from either side). The snib (above the handle) can be used to hold the bolt in the withdrawn position. A full turn of the key in the locking direction effectively deadlocks the handle which can then only be released by a full turn in the opening direction. The 3R35 can also be used without handles on either side.

### Standard Features

- Deadlocking slide (directly above latch bolt) deadlocks the latch bolt when the latter is engaged in the locking plate and prevents springing back by whatever means (Note: Gap between locking plate and forend must not exceed 3 mm).
- Deadlocking of handle (full turn of the key) to prevent operation of the handle from outside by breaking glass/panel etc. and reaching through.
- 5 lever locking mechanism with 9 lifts/lever affording at least 25,000 usable differs.
- False notching and common belly form on levers to deter reading and manipulation attacks.
- Key thrower with curtain to restrict access to the locking mechanism and further frustrate manipulative attack.
- Internal components designed to collapse under strong key attack leaving lock secure.
- Steel box on locking plate to protect head of bolt from jemmy attack.
- Edge gated levers suitable for master keying in suites compatible with other Chubb Security Range locks.
- Snib to hold bolt in withdrawn position and prevent door from accidentally latching.

## Finish:

### Materials and Finishes

- **Lockcase, cap, forend and locking plate** : mild steel (painted)
- **Bolt head, deadlocking slide and follower** : steel sinterings (nickel plated)
- **Bolt tail, runner, dogging slide, detent, thrower flange and bolt stump arm** : mild steel (nickel plated)



## Standards:

### Performance/Testing/Criteria

- 60,000 latch withdrawals using key.
- 240,000 latch withdrawals via follower.
- 300,000 slams.
- 60,000 full turns of key to deadlock and release.

### Upright mortice locking latch

- **Levers and thrower spindle** : brass (natural finish)
- **Lever Springs**: 18/8 stainless steel
- **Lever spring support** : Glass reinforced nylon
- **Snib follower** : Mazak 3
- **Thrower retaining spring** : zinc plated spring steel
- **Springs generally** : stainless steel

#### Application:

##### Purpose

To provide a means of securing swinging wooden doors on offices and rooms where a slam action is required.

##### Product Codes

H3R35X/207A/BS M.L.L SS NS K.STP EX.KEYS BODY ONLY  
H3R35X/207A/S M.L.LATCH SS NS K.STOP EX.KEYS

##### Overview

Mortice lock with formed-up case and welded Forend.  
Upright construction comprising latch and snib bolts to provide auto deadlocking of the operating handle.

##### Standard Features

- Automatic deadlocking action
- Snib to hold back the bolt when the door needs to be left ajar
- Operating handle can be secured from either side
- Locking of handle can be inhibited for use as a fire escape door
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

#### Finish:

##### Materials and Finishes

- **Lockcase, cap, forend and locking plate** : mild steel (painted)
- **Bolt head, deadlocking slide and follower** : steel sinterings (nickel plated)
- **Bolt tail, runner, dogging slide, detent, thrower flange and bolt stump arm** : mild steel (nickel plated)
- **Levers and thrower spindle** : brass (natural finish)
- **Lever Springs**: 18/8 stainless steel
- **Lever spring support** : Glass reinforced nylon
- **Snib follower** : Mazak 3
- **Thrower retaining spring** : zinc plated spring steel
- **Springs generally** : stainless steel



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the latch bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN

#### Application:

##### Purpose

To provide secure locking of hinged wooden doors in storerooms, outhouses etc in secure establishments, where a latch action is not required.

##### Product Codes

3G114/07/S 2.1/2 MORT D/LOCK SAT NO KEYS

3G114/07/TP 2.1/2 MDL SAT TO PASS WITH KEYS

3G114/SC/67 2.1/2 MORT D/LOCK SAT TWO KEYS

##### Overview

Operable by key from either side (full turn to lock or unlock).

##### Standard Features

- Steel Body
- Brass deadbolt with 14mm throw
- Anti-padsaw steel rollers
- 5 lever mechanism offering over a thousand key combinations
- Built in protection against picking, drilling, force and torque attack
- Brass key
- Optional micro-switches for alarm system integration
- Can be suited as part of a master keyed system

#### Finish:

##### Materials and Finishes

- **Lockcase, cap, forend and locking plate** - mild steel (painted textured silver)
- **Bolt head, stump and tail** - integral brass stamping (natural finish).
- **Thrower** - die-cast mazak alloy (nickel-plated).
- **Levers** - hard rolled brass (natural finish).
- **Lever springs** - phosphor bronze (natural finish).
- **Thrower retaining spring** - spring steel (zinc-plated).
- **Faceplate and escutcheons** - brass or stainless steel (satin finish).



#### Standards:

##### Performance/Testing/Criteria

60,000 full turns of key to deadlock and release.

# Custodial

4A79.070.01.W

ATLAS 4A79 Token

# ASSA ABLOY

## Application:

### Purpose

Replacement tokens for use with the ATLAS® system.

### Overview

Can be used with both MK2 3A63 pass lock and 4A79 cell lock systems.

### Standard Features

- Machined nylon enclosure
- Stainless steel mid section





#### Application:

##### Purpose

To enable conversion of either T handle or old style lever handle 4L cell locks to a rose mounted anti ligature lever handle

##### Overview

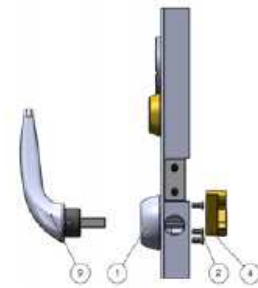
Available in Right Hand (4L55/066/01/S) and Left Hand (4L55/066/02/S) configurations the white powder coated handle and rose are manufactured to UK Home Office anti ligature requirements for cell locks. Tested to over 5 million operations the replacement lever handle kit allows users to upgrade existing products in order to meet the latest applicable standards.

Note: 3 fixings holes will need to be drilled and countersunk into the existing case. Details available upon request.

##### Standard Features

Each kit contains:

- Handle Rose
- 3 off M5x12 ST/ST fixing screws
- Bossless Brass follower
- Handle and spindle assembly



## Application:

### Purpose

To provide a means of identifying the position, within a frame, of a custodial doorset or gate.

### Product Codes

BS100/003/01/W DOOR SWITCH ASSY (INTERRUPTER DISC) MK3 SINGLE POSITION

BS100/003/02/W DOOR SWITCH ASSY (INTERRUPTER DISC) MK3 LOCK BACK

BS100/050/01/W BEAM SWITCH NO BRACKET

### Overview

The switch is designed for use with "Pivot" Hinge doors and gates commonly used in custodial environments in the UK and overseas. The primary function of the device is to provide accurate door in frame position sensing with low hysteresis. Accurate feedback to the access control system is essential to prevent un-planned locking out of frame and to ensure reliable auto-relock function when required.

### Standard Features

- IFM Position Feedback Sensor
- Dual handed brackets to suit left and right handed doorset applications
- Adjustable during installation to ensure accurate readings

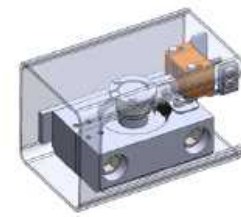
### Options

- Single position switch is used to monitor doors that are either held in the locked position or left open and unlocked.
- Lock back switch is used to monitor doors that are either locked in frame or locked in a lock back frame

## Finish:

### Materials and Finishes

- **Mounting bracket** – Zinc plated and passivated mild steel
- **Adjustable sensor plate** – Zinc plated and passivated mild steel
- **Sensor arm** – Zinc plated and passivated mild steel
- **Interrupter body** - aluminium



## Standards:

### Performance/Testing Criteria

Sensor compliant with EN 60947-5-2 and EN 55011 class B

#### Application:

##### Purpose

To be used in conjunction with slam action 4L type locking products to secure cell doors in the locked position whilst providing a means of quick release in the event of an emergency.

##### Product Codes

ARK55/001/01/W – Adjustable Removable Keep

##### Overview

The ARK55 is an adjustable and removable lock keep that can be used to set the door leaf to rebate gap to a minimum in order to prevent the creation of ligature points around the door leaf.

The ARK55 also features a rebated adjustable plate designed to prevent the door from bouncing back when it has been slammed closed with reasonable force.

Note: Tests conducted with the UK Home Office have determined that the maximum reasonable force is 2 metres per second closing speed.

##### Standard Features

- Adjustable keep plate to minimise door/rebate gaps
- Removable in an emergency
- Anti bounce rebated keep plate
- Rubber stops to prevent main bolt damage if extended during closing operation
- Can be retrofitted to existing frames
- Dual handed

##### Additional Items

- Spacer plates when extra clearance is required to maintain alignment with the lock
- Spacer block for locks mounted on the door leaf outer skin



#### Finish:

##### Materials and Finishes

- **Main body** – mild steel powder coated
- **Adjustable plate** – mild steel zinc plated and passivated

#### Application:



#### Purpose

The Lock Interface Unit (LIU) is a PCB which is intended to be DIN rail mounted as supplied, that allows you to control and monitor the Chubb 3R63 Pass and 4L78 Cell Locks.

One of the PCB's is required per lock.

#### Product Item Codes

3R63/055/01/S – Lock Interface Unit (Pre 2014 installations)

3R63/055/02/S – Lock Interface Unit With Relays (Post 2014 installations)

#### Overview

The PCB's can be fitted singularly local to the door in a junction box or header, or for larger systems in a centrally located cabinet where a number of locks may be installed using a shared power supply.

There are 3 terminal blocks which allow the wiring from the Power Supply/Door Position Switch and the Control System, to interface with the Lock.

Using a rotary switch mounted on the PCB, the lock can be configured to either

- Auto-relock (If bolt withdrawn)
- Auto-relock (after specified time\*, no bolt withdrawal necessary)
- Require an external input to lock.

\* Relock time is selectable in 5s intervals up to 1 minute.

Interlocks can also be achieved by connecting together the required PCB's

#### Monitoring

The PCB has terminations to monitor the following;

- **Mechanical Lock (ILU)**

The ILU is connected directly from the lock to the monitoring terminal block TB2, there is no digital input to the processor. This is a changeover contact so either state can be monitored/displayed, mechanically locked or unlocked.

- **Electric Locking Unit (ELU)**

The ELU is the double solenoid unit within the lock, for which the PCB provides the pulse sequence to unlock. This then frees the bolt to allow withdrawal via handle operation. The sequence is;

- Solenoid A energized, 100mS Delay.
- Solenoid B energized, 400mS Delay.
- Solenoid A de-energized, 100mS Delay.
- Solenoid B de-energized.

- **Bolt Position**

This is also an open drain output which gives 0V when the bolt is extended. As soon as the bolt is withdrawn and the locks micro-switch activates this output goes to 24V.

- **Tamper Loop**

This is similar to the ILU in that it is directly connected from the lock to the monitoring terminal block TB2. There is no input to the PCB's processor.

- **Door Position**

An external door switch (i.e magnetic) is required to signal to the PCB that the door is in frame. This is used for auto relock operation.

# Custodial

3R63.055

Lock Interface Unit

**ASSA ABLOY**

# Custodial

3A63.071.01.W

ATLAS 3A63 Token

# ASSA ABLOY

## Application:



### **Purpose**

Replacement tokens for use with the ATLAS® system.

### **Overview**

For use with both MK1 and MK2 systems

### **Standard Features**

- Ultrasonically welded glass filled nylon enclosure
- Brass wear resistant ferrule

## Application:

### Purpose

Replacement tokens for use with the ATLAS® system.

### Overview

For use with RFID based systems

### Standard Features

- Stainless Steel wear resistant enclosure



### Application:

A Chubb Locks Custodial Services Ltd Home Office specification cell door for police cells incorporating a full view 3 position service hatch, hit & miss vertical viewer and Type 1 Chubb 4L55 flush mounted mechanical slam action cell lock with adjustable strike plate. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Gap between Door Leaf and Rebate Maximum 2mm  
Complies with Home Office Static Load Test
- Gap between Sliding Hatch Plate and Hatch Aperture maximum 0.5mm
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles and to BS EN 1935 Grade 14 160kg
- Home Office Approved Hit & Miss Vertical Viewer Glass  
Home Office Type 1 specification Laminated Toughened Glass/Polycarbonate
- Home Office Approved Hatch Tested to a Minimum 400,000 cycles
- Home Office Approved Adjustable Strike Plate 'Bounce' Test pass at Closing Speed 2 metres per sec

#### Door Frame

- 125x75x8mm Rolled Steel Angle Frame to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 50x25x2mm Rolled Hollow Section Rebates Stainless Steel Grade 304 to BS EN 10088
- All Stainless Steel 180 Grit Dull Polish RA 1.0 – 1.7 EN 1J or 2J
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 CSK Sleeve Anchors 10no. minimum per frame
- Home Office Approved Adjustable Strike Plate ref ARK55

#### Door Leaf

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 3mm thick Cold Rolled Steel Internal Kick Plates to Electro-Zinc Coated to BS EN 10152:2009
- 0.8mm thick Additional Cell Side Door Skin Stainless Steel Grade 304 BA Pattern ref 12LG to BS EN 10088
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to





BS EN 13162:2001

- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- Home Office Approved Hit & Miss Viewer
- Type 1 Chubb 4L55 Flush Mounted Mechanical Slam Action Cell Lock with Ligature-Resisting Handle
- Home Office Approved Full View 3 Position Service Hatch

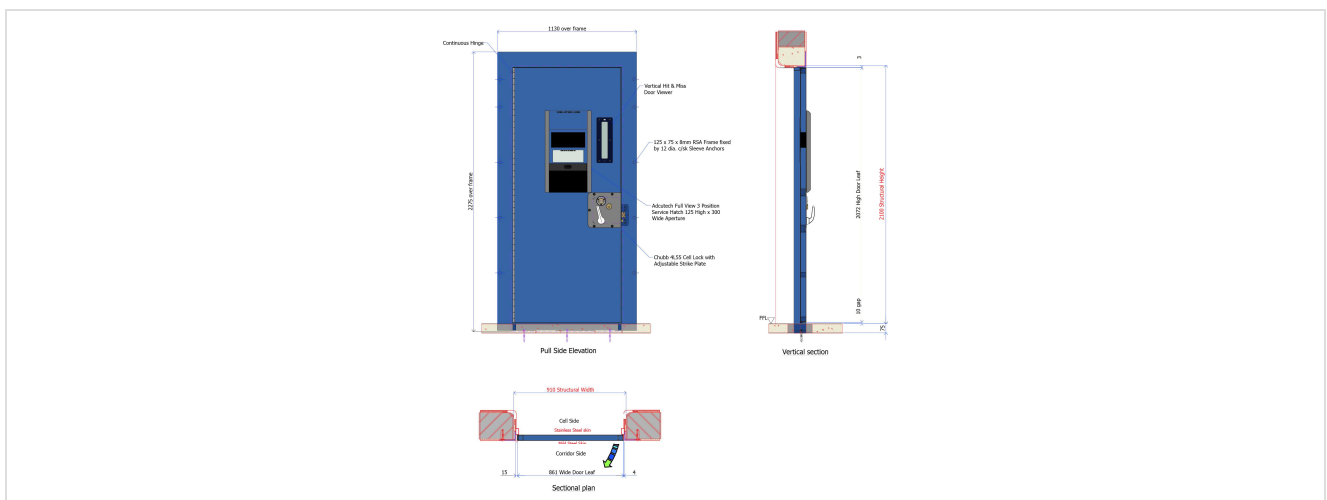
#### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 1130mm Wide x 2210mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 861mm Wide x 2072mm High Excluding Hinge(s) x 47mm Thick
- Frame Clearance 7mm Jambs, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd Home Office specification cell door for vulnerable detainee police cells incorporating a 2 position service hatch, large vision panel with sliding cover and Type 1 Chubb 4L55 flush mounted mechanical slam action cell lock with adjustable strike plate. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Gap between Door Leaf and Rebate Maximum 2mm  
Complies with Home Office Static Load Test
- Gap between Sliding Hatch Plate and Hatch Aperture maximum 0.5mm
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg
- Home Office Approved Glass Home Office Type 1 specification Laminated Toughened Glass/Polycarbonate
- Home Office Approved Hatch Tested to a Minimum 400,000 cycles
- Home Office Approved Adjustable Strike Plate 'Bounce' Test pass at Closing Speed 2 metres per sec

##### Door Frame

- 125x75x8mm Rolled Steel Angle Frame to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 50x25x2mm Rolled Hollow Section Rebates Stainless Steel Grade 304 to BS EN 10088
- All Stainless Steel 180 Grit Dull Polish RA 1.0 – 1.7 EN 1J or 2J
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 CSK Sleeve Anchors 10no. minimum per frame
- Home Office Approved Adjustable Strike Plate ref ARK55

##### Door Leaf

- 3mm thick Cold Rolled Steel Door Skin Corridor Side Electro-Zinc Coated to BS EN 10152:2009
- 3mm thick Stainless Steel Cell Side Door Skin Grade 304 to BS EN 10088
- Stainless Steel Door Skin 180 Grit Dull Polish RA 1.0 – 1.7 EN 1J or 2J
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to



BS EN 13162:2001

- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- Home Office Approved Vision Panel with Sliding Privacy Cover & Hit & Miss Viewer
- Type 1 Chubb 4L55 Flush Mounted Mechanical Slam Action Cell Lock with Ligature-Resisting Handle
- Home Office Approved 2 Position Service Hatch
- Heavy Duty Rubber Door Stops to Protect Vision Panel Sliding Cover

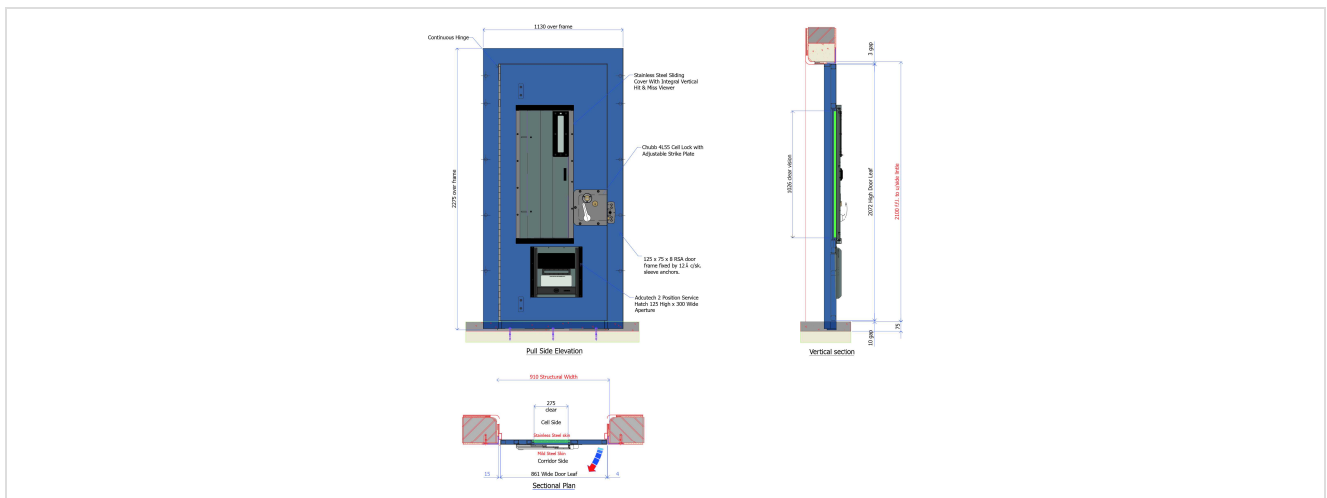
#### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 1130mm Wide x 2210mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 861mm Wide x 2072mm High Excluding Hinge(s) x 46mm Thick
- Frame Clearance 7mm Jambs, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

#### Finish:

- Mild Steel Powder Coat Epoxy Primer to BS EN 12206-1:2004
- Stainless Steel Dull Grit Satin Polished Unpainted

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd observation cell door with two large vision panels of Home Office Type 1 specification laminated toughened glass/polycarbonate for maximum visibility, Type 1 Chubb 4L55 slam action cell lock with adjustable strike plate and continuous hinge.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Glazing Gasket Holding Room Side 1.5mm Maximum and Double Sided Adhesive to Prevent Pick
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg
- Home Office Approved Glazing Type 1 specification Laminated Toughened Glass/Polycarbonate

##### Door Frame

- 125x75x8mm Rolled Steel Angle Frame to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 50x25x3mm Rolled Hollow Section Steel Rebates to BS EN 10025:2004
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 CSK Sleeve Anchors 10no. minimum per frame
- Home Office Approved Adjustable Strike Plate ref ARK55

##### Door Leaf

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- Home Office Approved Glazing Type 1 specification Laminated Toughened Glass/Polycarbonate
- Glazing Frames External fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2
- Type 1 Chubb 4L55 Flush Mounted Mechanical Slam Action Cell Lock with Ligature-Resisting Handle

##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 1130mm Wide x 2210mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 861mm Wide x 2072mm High Excluding Hinge(s) x 46mm Thick
- Frame Clearance 7mm Jambs, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge,

3mm head, 10mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd Home Office specification door for police holding rooms incorporating a 150mm square laminated glass vision panel with privacy cover, recessed pull handle and Type 2 Chubb 3G112 heavy duty mortice deadlock. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Gap between Door Leaf and Rebate Maximum 2mm  
Complies with Home Office Static Load Test
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg
- Home Office Approved Glass Home Type 1 specification Laminated Toughened Glass/Polycarbonate

##### Door Frame

- 125x75x8mm Rolled Steel Angle Frame to BS EN 10025:2004
- 25x25x3mm Rolled Hollow Section Steel Rebates to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 CSK Sleeve Anchors 10no. minimum per frame

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 150mm Square Laminated Glass & Polycarbonate Vision Panel with Hinged Steel Privacy Cover
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Corridor Side Only
- Recessed Pull Handle Corridor Side Cast Stainless Steel Grade 304

##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 1130mm Wide x 2210mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 861mm Wide x 2072mm High Excluding Hinge(s) x 46mm Thick
- Frame Clearance 7mm Jambs, 7mm Head

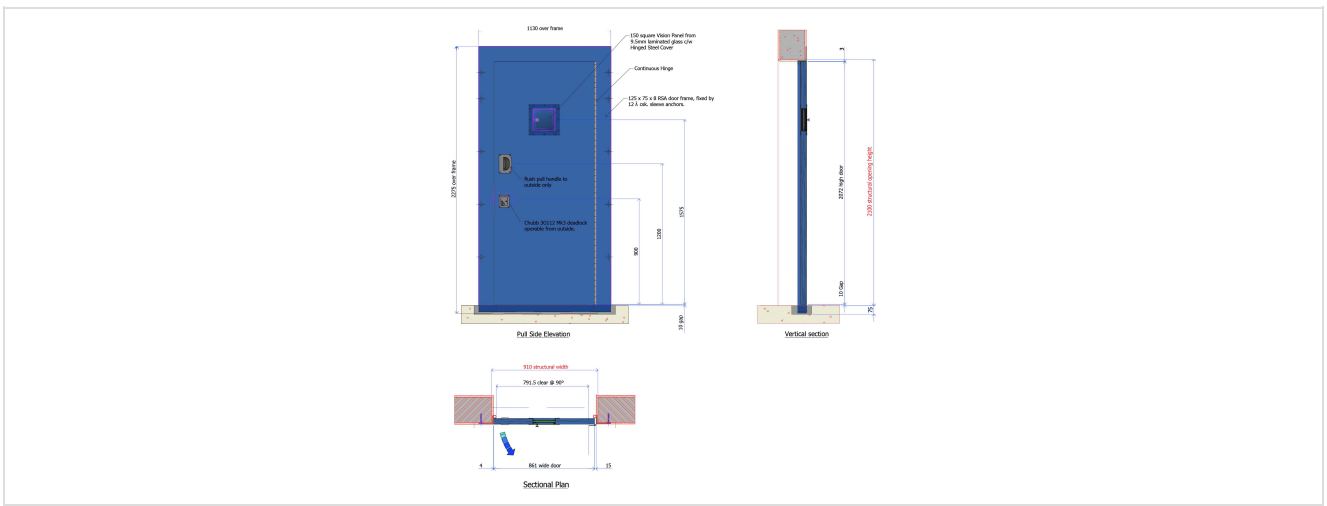


- Door Leaf Clearance 4mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd holding room screen based on typical Home Office specifications for secure doors & glazing for holding areas within police station charge areas. Incorporating large areas of Home Office Type 1 specification Laminated Toughened Glass/Polycarbonate, recessed pull handle and Type 2 Chubb 3G112 heavy duty mortice deadlock. Any size/configuration of panels can be provided.



#### Specification:

##### Specifications, Performance Data & Tolerances

- Glazing Gasket Holding Room Side 1.5mm Maximum and Double Sided Adhesive to Prevent Pick
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg
- Home Office Approved Glazing Type 1 specification Laminated Toughened Glass/Polycarbonate

##### Door Frame

- 100x60x4mm Hot Formed Rolled Hollow Section Steel Frame to BS EN 10025:2004
- 40x20mm Solid Section Steel Rebates to BS EN 10025:2004
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 12no. minimum per frame

##### Door Leaf/Side Panels

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- Home Office Approved Glazing Type 1 specification Laminated Toughened Glass/Polycarbonate
- Glazing Frames External fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2
- Type 2 Chubb 3G112 Heavy Duty Mortice Deadlock Operable Corridor Side only
- Recessed Pull Handle Corridor Side Stainless Steel Grade 304

##### Standard Dimensions

- Structural Opening 2500mm Wide x 2100mm High
- Overall Door Frame 2486mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)

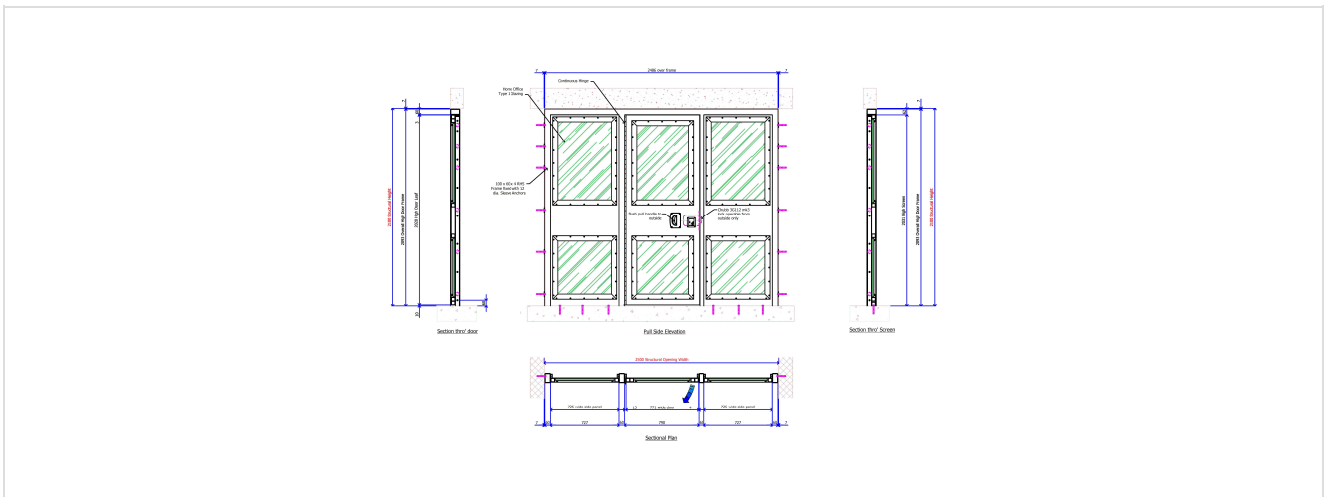


- Door Leaf 771mm Wide x 2020mm High Excluding Hinge(s) x 46mm Thick
- Door Leaf Frame 910mm Wide x 2486mm High Overall from FFL
- Side Panels 788mm Wide x 2093mm High x 46mm Thick Including Frame
- Frame Clearance 7mm Jambs, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd HMPS specification cell door for court cells incorporating a vision panel with privacy cover and preparation for a Type 3 Chubb 3R47 mortice locking latch. Conforms to the Court Standards & Design Guide and standards & specifications required by the Prison Service.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Court Standards & Design Guide
- Conforms to the standards & specifications required by the Prison Service

##### Door Frame

- 100x100x4mm Hot Rolled Hollow Section Steel Frame to BS EN 10025:2004
- 12x12 Solid Steel Section Rebates BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 4mm Pressed Steel Threshold Section Electro-Zinc Coated to BS EN 10152:2009 Cast into Floor
- Frame Fixing Cleats 100x65x8mm Rolled Steel Angle to BS EN 10025:2004 6no.minimum per frame
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings M12 x 250 Chemical Resin Stud Anchors 12no.minimum per frame

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides Hot Dip Zinc Coated to BS EN 10346:2009
- 4mm thick Cold Rolled Steel Internal Kick Plates to Electro-Zinc Coated to BS EN 10152:2009
- 38x19x2mm Internal ERW Rectangular Steel Tube Skeleton Framework to BS EN 10305-3/5 Grade E220
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA40 to all Internal Voids to BS EN 13162:2001
- Tubular Pivot Hinge Full Length of Door Leaf as HMPS Specification
- Laminated Glass Vision Panel with Hinged Privacy Cover as HMPS Specification
- Preparation for Type 3 Chubb 3R47 Mortice Locking Latch
- Outer Steel Lock Box Enclosure Included as Part of Internal framework Skeleton

##### Standard Dimensions

- Structural Opening 870mm Wide x 2062mm High
- Overall Door Frame 845mm Wide x 2049.5mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 618mm Wide CL Hinge Tube x 1936.5mm High x 42mm Thick
- Frame Clearance 12.5mm Jambs, 12.5mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm head, 10mm undercut

# Custodial

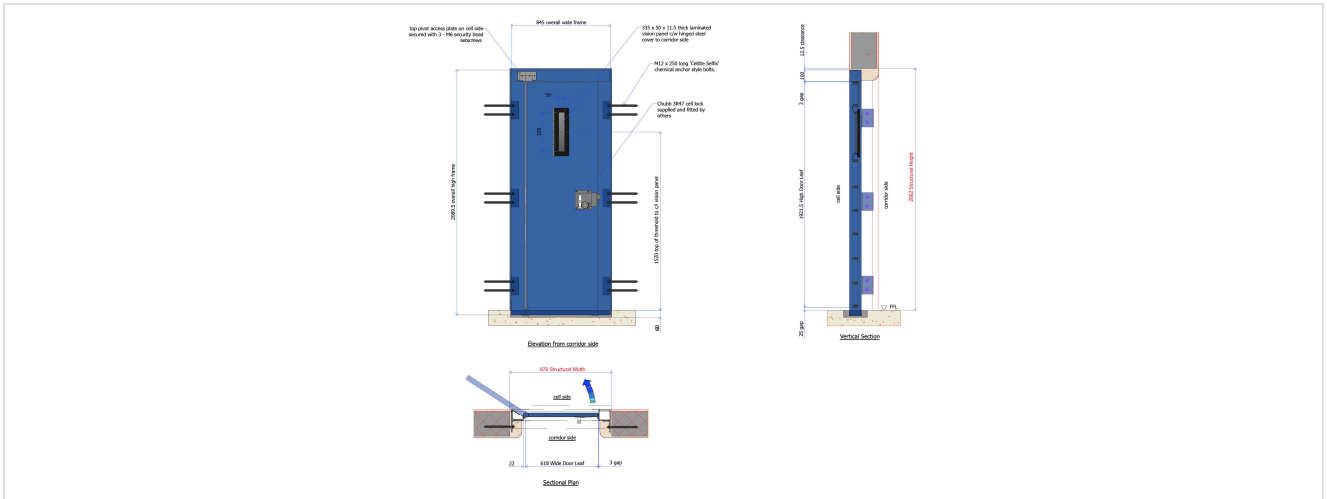
## 9D006

### Court Cell Door

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd HMPS specification cell door for prison cells incorporating an anti-barricade device, anti-ligature strips, vision panel with privacy cover, inundation unit and preparation for a Class 1 Chubb cell lock. Conforms to the standards & specifications required by the Prison Service & Ministry of Justice.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the standards & specifications required by the Prison Service & Ministry of Justice

##### Door Frame

- 100x60x4mm & 100x100x4mm Hot Rolled Hollow Section Steel Frame to BS EN 10025:2004
- Anti-Barricade Device Machined & Fabricated From Solid Steel Section as HMPS Specification
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 4mm Pressed Steel Threshold Section Electro-Zinc Coated to BS EN 10152:2009 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Fully Site Welded Head Chemical Resin Anchors 8no.minimum per frame

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides Hot Dip Zinc Coated to BS EN 10346:2009
- 38x19x2mm Internal ERW Rectangular Steel Tube Skeleton Framework to BS EN 10305-3/5 Grade E220
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA40 to all Internal Voids to BS EN 13162:2001
- Tubular Pivot Hinge Full Length of Door Leaf as HMPS Specification
- Laminated Glass Vision Panel with Hinged Privacy Cover as HMPS Specification
- Preparation for Class 1 Chubb 4L65P Mechanical Cell Lock With Privacy Facility
- Direct Mounting Lock Plate Included as Part of Internal framework Skeleton
- Lockable Inundation Unit as HMPS Specification
- Anti-Ligature Strips Face Fixed at Head & Leading Edge Over Lock as HMPS Specification

##### Standard Dimensions

- Structural Opening 790mm Wide x 2070mm High
- Overall Door Frame 770mm Wide x 2060mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 618.5mm Wide CL Hinge Tube x 1937mm High x 42mm Thick
- Frame Clearance 10mm Jambs, 10mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut

# Custodial

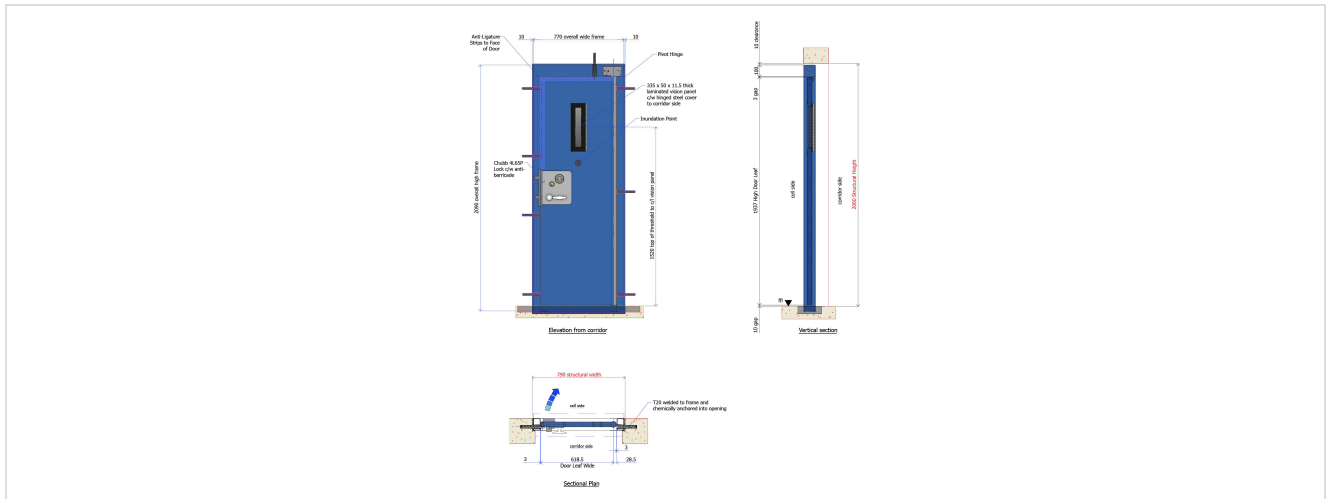
## 9D008

### Prison Cell Door

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd IPS specification cell door for prison cells incorporating removable rebates, horizontal vision panel with privacy cover, inundation unit and preparation for a Class 1 Chubb cell lock. Conforms to the standards & specifications required by the Irish Prison Service.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the standards & specifications required by the Irish Prison Service

##### Door Frame

- 120x60x5mm Jambs & 160x120x5mm Header Hot Rolled Hollow Section Steel Frame to BS EN 10025:2004
- Removable 20x20x3mm Pressed Steel Angle Rebate Strips Fixed With M6 CSK Security Screws
- Removable Solid Steel Lock Bolt Strike Plate Welded to Rebate Strips
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 120x15mm Flat Steel Threshold Section To BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- 4mm Thick Removable Access Plate In Header With Preparation For Tamper Microswitch
- Frame Fixings Fully Site Welded Head T16 Rebar Chemical Resin Anchors 7no.minimum per frame

##### Door Leaf

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 50x25x1.5mm Internal ERW Rectangular Steel Tube Skeleton Framework to BS EN 10305-3/5 Grade E220
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA50 to all Internal Voids to BS EN 13162:2001
- Tubular Pivot Hinge Full Length of Door Leaf as IPS Specification
- Horizontal Laminated Glass Vision Panel with Hinged Privacy Cover as IPS Specification
- Preparation for Surface Mounted Class 1 Chubb 4L56 Mechanical Slam Action Cell Lock
- Direct Mounting Lock Plate Welded To Corridor Side Face Of Door
- 20mm Dia Internal Conduit With Smooth Bushed Joints For Future Electric Locking
- Inundation Unit as IPS Specification
- Stainless Steel Grade 304 Card Holder Riveted To Corridor Side Face
- Preparation For Door Position Contact

##### Standard Dimensions

- Structural Opening 1010mm Wide x 2260mm High
- Overall Door Frame 990mm Wide x 2250mm High

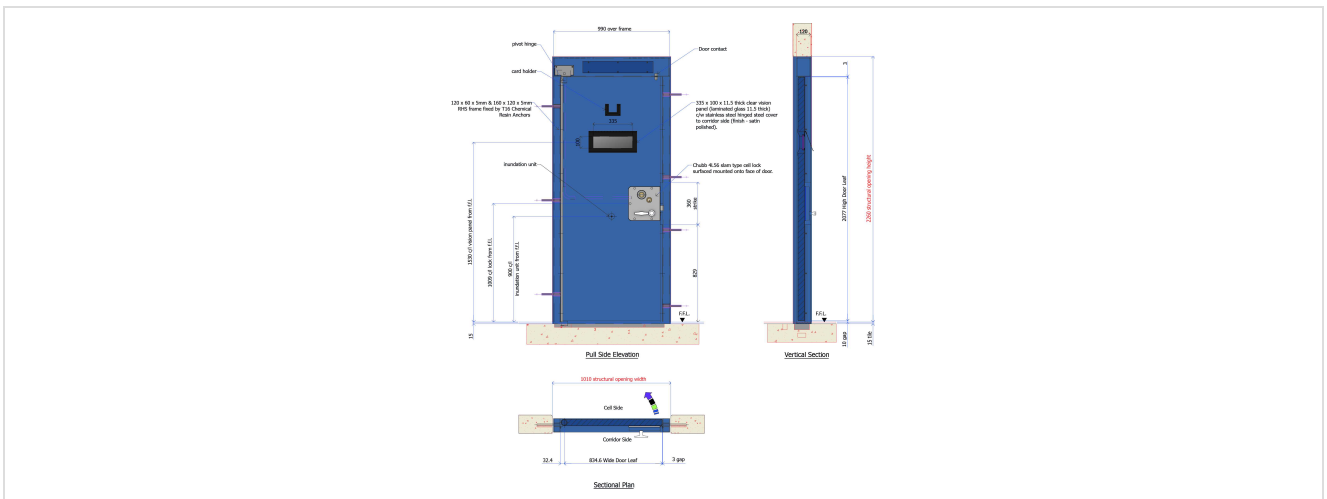
(Height From Finished Floor Level as Threshold Cast into Floor)

- Door Leaf 834.6mm Wide CL Hinge Tube x 2077mm High x 56mm Thick
- Frame Clearance 10mm Jamb, 10mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd prisoner entrance door for entering custody in police stations. Incorporating a 150mm square laminated glass vision panel with privacy cover, recessed pull handle and Type 2 Chubb 3G112 heavy duty mortice deadlock working in conjunction with an electric strike for keyless access control. Generally conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Generally Conforms to the Police Buildings Custody Design Guide
- Generally Conforms to the National Police Estates Group Best Practice Document
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

##### Door Frame

- 3mm thick Pressed Steel Profile Frame 125x69x50mm 19mm Rebate Electro-Zinc Coated to BS EN 10152:2009
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Heavy Duty Fail-Secure Electric Strike 12v DC Monitored
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame
- Security Type Frame Grommets to Conceal Fixings

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 150mm Square Laminated Glass Vision Panel with Hinged Steel Privacy Cover
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Recessed Pull Handle Both Sides Cast Stainless Steel Grade 304
- Overhead Hydraulic Door Closer with Adjustable Closing Force EN 3-6 and Back Check

##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 782mm Wide x 2030mm High Excluding Hinge(s) x 48mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 15mm hinge,



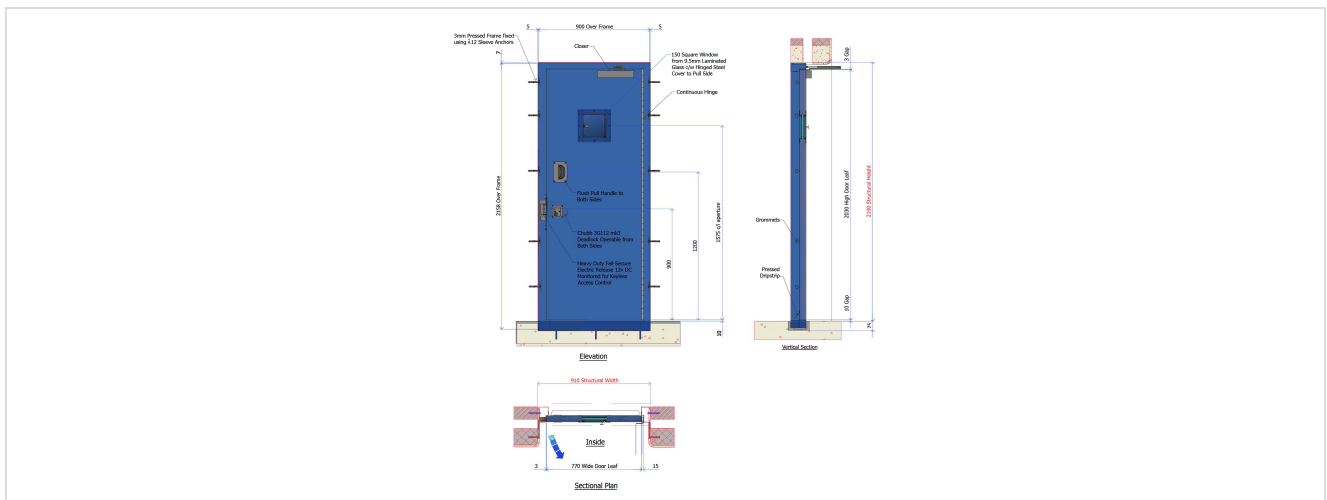


3mm head, 10mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd fire escape door for police station custody secure areas incorporating recessed pull handles and Type 2 Chubb 3G112 heavy duty mortice deadlock. Generally conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Generally Conforms to the Police Buildings Custody Design Guide
- Generally Conforms to the National Police Estates Group Best Practice Document
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

##### Door Frame

- 3mm thick Pressed Steel Profile Frame 125x69x50mm 19mm Rebate Electro-Zinc Coated to BS EN 10152:2009
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame
- Security Type Frame Grommets to Conceal Fixings

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Recessed Pull Handle Both Sides Cast Stainless Steel Grade 304

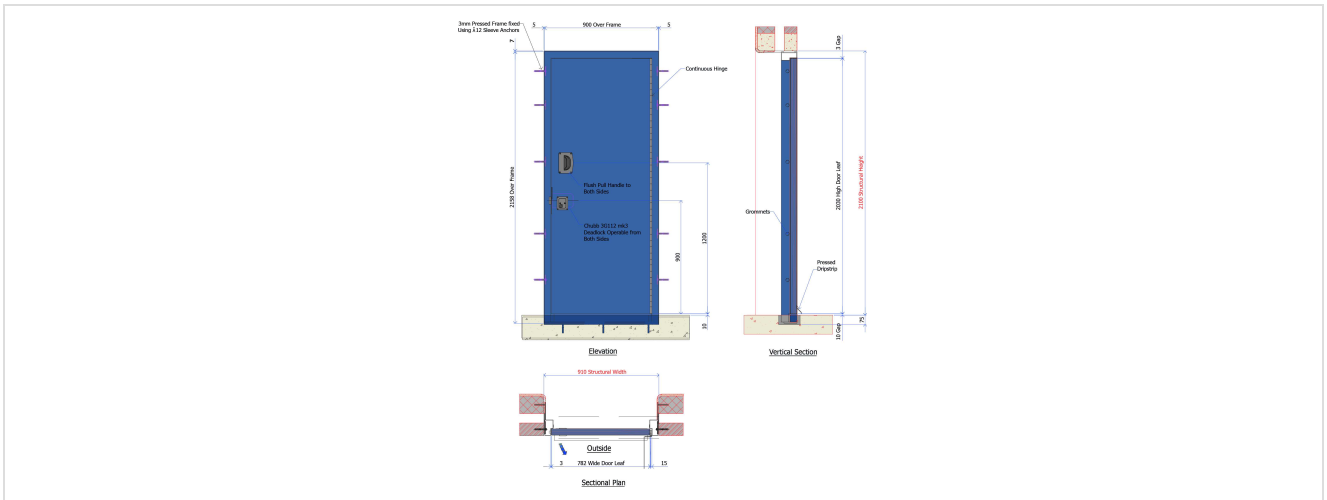
##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 782mm Wide x 2030mm High Excluding Hinge(s) x 48mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd door typically used for police station pass or exercise yard doors within custody. Incorporating a 150mm square laminated glass vision panel, recessed pull handle and Type 2 Chubb 3G112 heavy duty mortice deadlock. Generally conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Generally Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

##### Door Frame

- 3mm thick Pressed Steel Profile Frame 125x69x50mm 19mm Rebate Electro-Zinc Coated to BS EN 10152:2009
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame
- Security Type Frame Grommets to Conceal Fixings

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 150mm Square Laminated Glass Vision Panel
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable One or Both Sides
- Recessed Pull Handle Both Sides Cast Stainless Steel Grade 304

##### Standard Dimensions

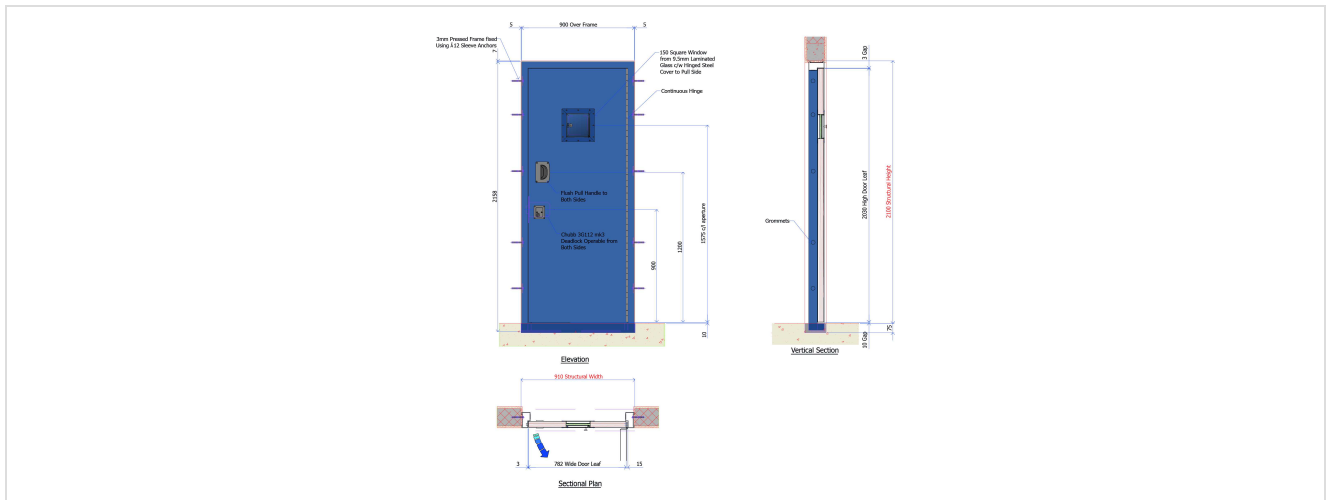
- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 782mm Wide x 2030mm High Excluding Hinge(s) x 48mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut



#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd secure door for police station surgeon/medical rooms in custody incorporating a 150mm square laminated glass vision panel with privacy cover, recessed pull handle and Type 2 Chubb 3G112 heavy duty mortice deadlock. Generally conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Generally Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

##### Door Frame

- 3mm thick Pressed Steel Profile Frame 125x69x50mm 19mm Rebate Electro-Zinc Coated to BS EN 10152:2009
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame
- Security Type Frame Grommets to Conceal Fixings

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 150mm Square Laminated Glass Vision Panel with Hinged Steel Privacy Cover
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Recessed Pull Handle Both Sides Cast Stainless Steel Grade 304

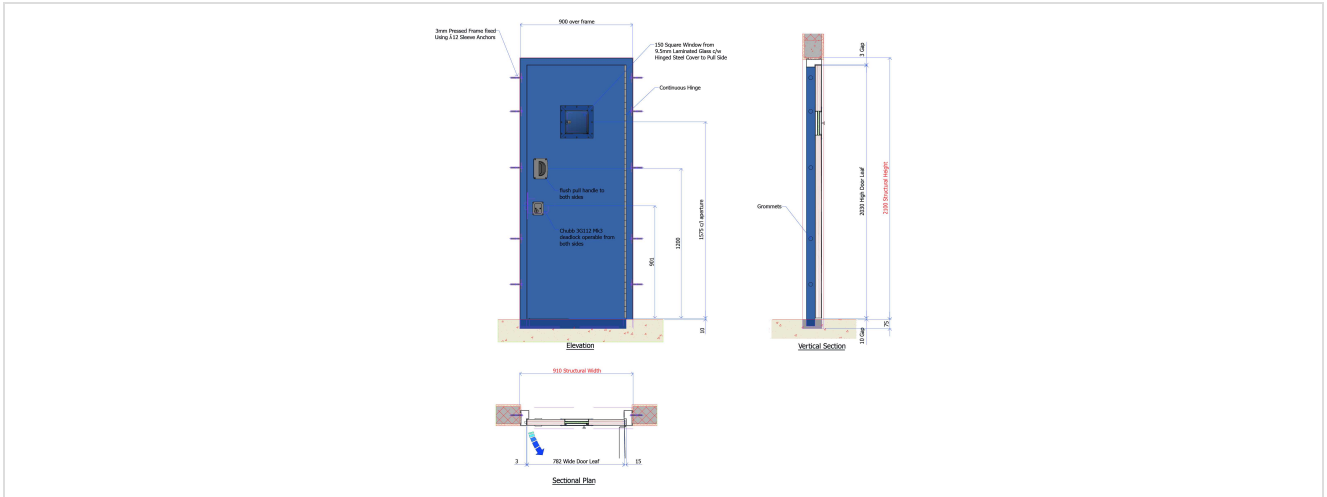
##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 782mm Wide x 2030mm High Excluding Hinge(s) x 48mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd steel fire door with 60 mins fire resistance integrity for use in police custody. The door incorporates a laminated glass vision panel, a Type 2 Chubb 3G112 heavy duty mortice deadlock & continuous hinge.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Fire Resistance 60 mins Integrity to BS EN 1634-1:2000
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

##### Door Frame

- 125x75x8mm Rolled Steel Angle Frame to BS EN 10025:2004
- 25x25x3mm Rolled Hollow Section Steel Rebates to BS EN 10025:2004
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame

##### Door Leaf

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- Ligature Resisting Continuous Hinge Capable of Supporting Weight of Door Leaf
- Fire Rated Security Laminated Glazing
- Intumescent Glazing Gasket
- Glazing Frame Fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2
- Type 2 Chubb 3G112 Heavy Duty Mortice Deadlock Operable Both Sides
- Recessed Pull Handle Both Sides Stainless Steel Grade 304

##### Standard Dimensions

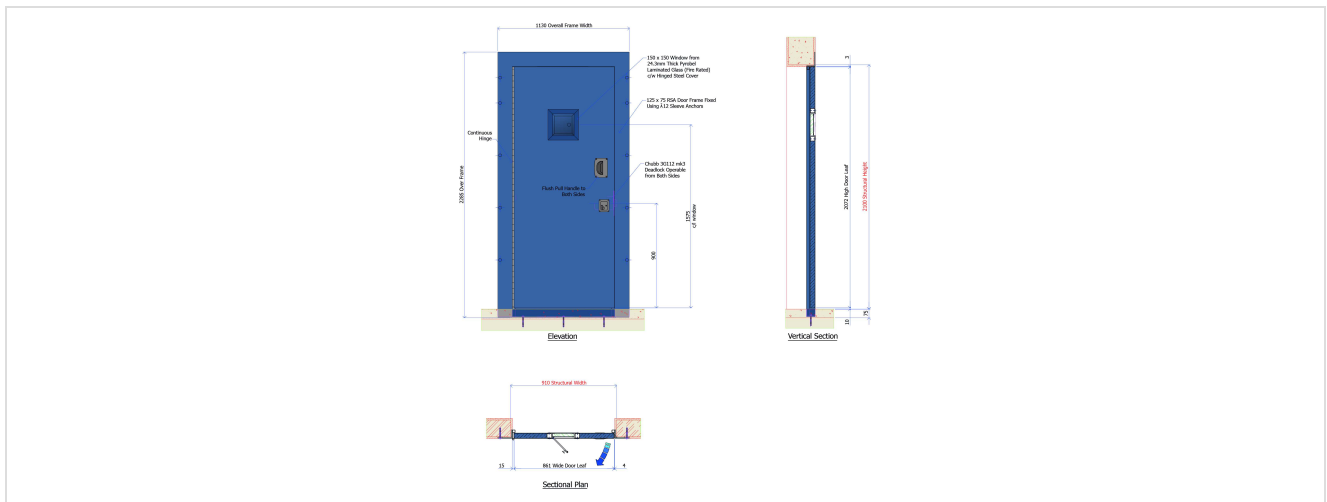
- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 1130mm Wide x 2210mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 861mm Wide x 2072mm High Excluding Hinge(s) x 46mm Thick
- Frame Clearance 7mm Jambs, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut



#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



### Application:

A Chubb Locks Custodial Services Ltd steel fully glazed corridor fire door & glazed side panel with 60 mins fire resistance integrity for use in police custody in place of traditional barred grilles. The door incorporates large toughened laminated glass vision panels and a Type 2 Chubb 3G112 heavy duty mortice deadlock.

### Specification:

#### Specifications, Performance Data & Tolerances

- Fire Resistance 60 mins Integrity to BS EN 1634-1:2000
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

#### Door Frame

- 100x60x4mm Hot Formed Rolled Hollow Section Steel Frame to BS EN 10025:2004
- 40x20mm Solid Section Steel Rebates to BS EN 10025:2004
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 12no. minimum per frame

#### Door Leaf

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 'CERTIFIRE' Approved Security Laminated Toughened Glazing
- Intumescent Glazing Gasket
- Glazing Frames Fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2
- Type 2 Chubb 3G112 Heavy Duty Mortice Deadlock Operable Both Sides
- Recessed Pull Handle Both Sides Stainless Steel Grade 304

#### Fixed Side Panel

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001

### Fully Glazed Corridor Fire Door 60 min Integrity

- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- 'CERTIFIRE' Approved Security Laminated Toughened Glazing
- Intumescent Glazing Gasket
- Glazing Frames Fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2

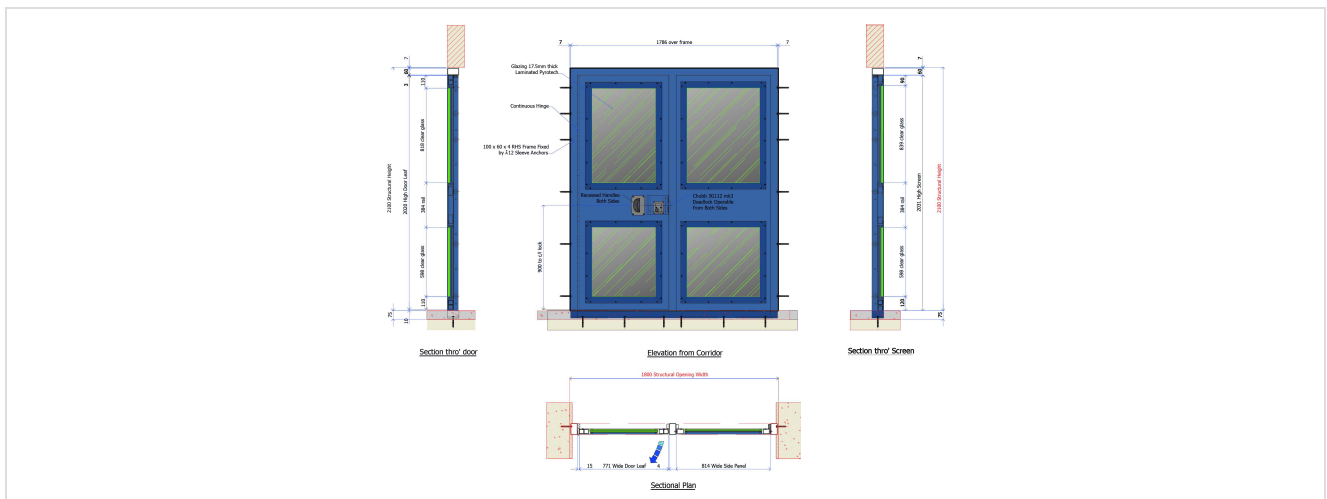
#### Standard Dimensions

- Structural Opening 1800mm Wide x 2100mm High
- Overall Door Frame 1786mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 771mm Wide x 2020mm High Excluding Hinge(s) x 46mm Thick
- Door Leaf Frame 910mm Wide x 2486mm High Overall from FFL
- Side Panel 876mm Wide x 2093mm High x 46mm Thick Including Frame
- Frame Clearance 7mm Jambs, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd solid timber single action door & frame faced both sides in coloured textured Armaglaze typically used in corridor locations within Metropolitan Police custody. The door incorporates a Type 2 Chubb 3G112 lock, heavy duty roller catch, polycarbonate vision panel and self-closing floor spring. Conforms to the Metropolitan Police standard specifications.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to The Metropolitan Police Standard Specification

##### Door Frame

- Monolithic Ash Hardwood Frame 3 Sides 150x70x50mm 20mm Rebate
- European Ash Hardwood Kiln Dried Moisture Content 10 -14% Density 710kg/m<sup>3</sup>
- Mortice & Tenon Joints
- Hardwood Finish Sanded 240 Grit
- Steel Threshold Plate
- Counterbored & Pelleted Frame Fixings
- Frame Fixings 12mm dia x 100mm Sleeve Anchors 8no. minimum per frame
- Single Action Floor Spring

##### Door Leaf

- 49/50mm thick Solid Timber Core Malaysian Hardwood Lamels 20-30mm x 200mm finger Jointed Average Density 750kg/m<sup>3</sup>
- 5mm thick Coloured Armaglaze Textured Facing Heat Pressure Bonded to Both Sides 45C @2500lbs/in<sup>2</sup> for 6mins
- 25mm Hardwood Ash Lipping Bonded & Screwed All 4 Edges Minimum Density 710kg/m<sup>3</sup> 10 -14%MC
- Hardwood Finish Sanded 240 Grit
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Heavy Duty Roller Catch
- Stainless Steel Pull Handle & Push Plate
- 6mm thick Polycarbonate Vision Panel 215mm x 250mm
- Single Action Floor Spring Pivots

##### Standard Dimensions

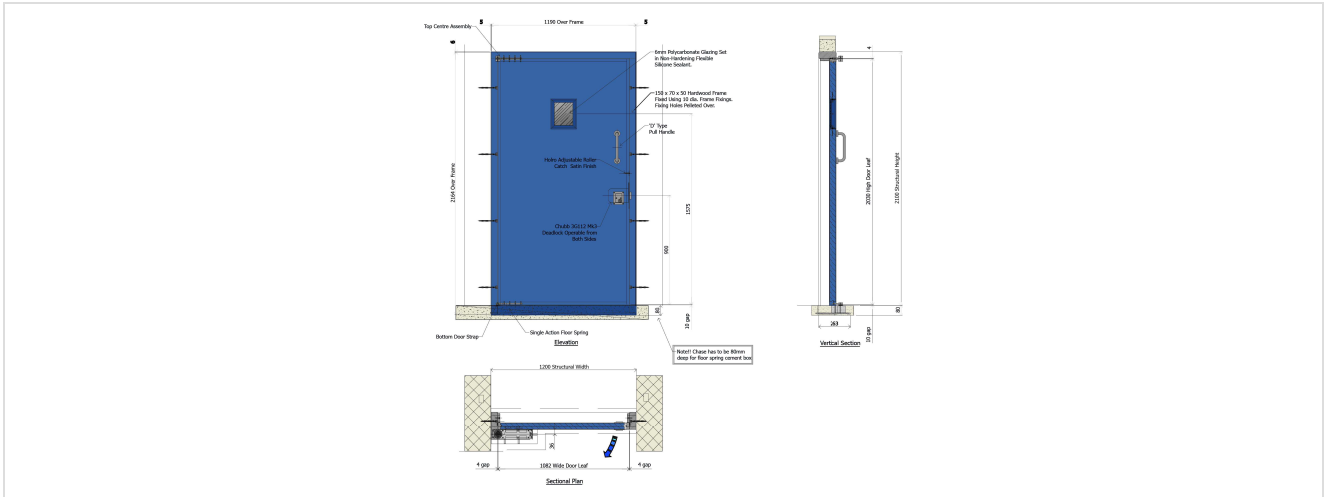
- Structural Opening 1200mm Wide x 2110mm High
- Overall Door Frame 1190mm Wide x 2104mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 1082mm Wide x 2030mm High Excluding Hinge(s) x 60mm Thick
- Frame Clearance 5mm Jambs, 6mm Head
- Door Leaf Clearance 4mm Leading Edge, 4mm hinge, 4mm head, 10mm undercut

#### Finish:

- Colour Impregnated Armaglaze Textured Facings

- Hardwood Lacquer Two Pack Semi-Matt 20% Sheen

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd solid timber double action door & frame faced both sides in coloured textured Armaglaze typically used in corridor locations within Metropolitan Police custody. The door incorporates a Type 2 Chubb 3G112 lock, heavy duty roller catch, polycarbonate vision panel and self-closing floor spring. Conforms to the Metropolitan Police standard specifications.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to The Metropolitan Police Standard Specification
- Door Not Handed

##### Door Frame

- Monolithic Ash Hardwood Frame 3 Sides 140x50mm
- European Ash Hardwood Kiln Dried Moisture Content 10 -14% Density 710kg/m<sup>3</sup>
- Mortice & Tenon Joints
- Hardwood Finish Sanded 240 Grit
- Steel Threshold Plate
- Counterbored & Pelleted Frame Fixings
- Frame Fixings 12mm dia x 100mm Sleeve Anchors 8no. minimum per frame
- Double Action Floor Spring

##### Door Leaf

- 49/50mm thick Solid Timber Core Malaysian Hardwood Lamels 20-30mm x 200mm finger Jointed Average Density 750kg/m<sup>3</sup>
- 5mm thick Coloured Armaglaze Textured Facing Heat Pressure Bonded to Both Sides 45C @2500lbs/in<sup>2</sup> for 6mins
- 25mm Hardwood Ash Lipping Bonded & Screwed All 4 Edges Minimum Density 710kg/m<sup>3</sup> 10 -14%MC
- Hardwood Finish Sanded 240 Grit
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Heavy Duty Roller Catch
- Stainless Steel Push Plates Both Sides
- 6mm thick Polycarbonate Vision Panel 215mm x 250mm
- Double Action Floor Spring Pivots

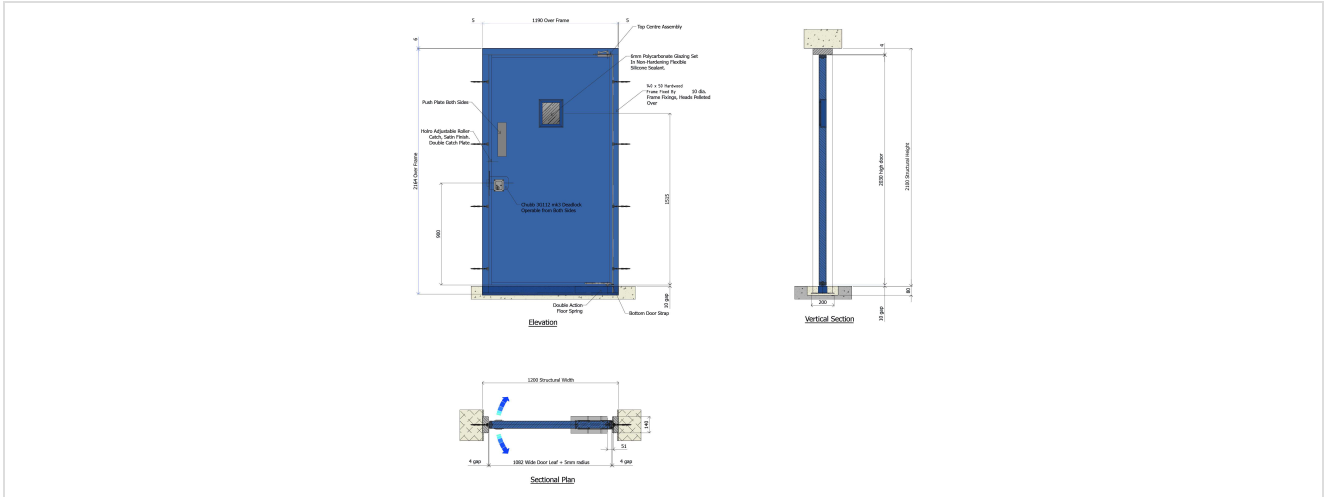
##### Standard Dimensions

- Structural Opening 1200mm Wide x 2110mm High
- Overall Door Frame 1190mm Wide x 2104mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 1092mm Wide x 2040mm High Excluding Hinge(s) x 60mm Thick
- Frame Clearance 5mm Jambs, 6mm Head
- Door Leaf Clearance 4mm Leading Edge, +6mm hinge, 4mm head, 10mm undercut

#### Finish:

- Colour Impregnated Armaglaze Textured Facings
- Hardwood Lacquer Two Pack Semi-Matt 20% Sheen

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd HMPS specification control & Restraint (C&R) door for prison wings incorporating two shoot bolts, vision panel with privacy cover, pull handle and preparation for a Class 2 Chubb 3G112 heavy duty mortice deadlock. Conforms to the standards & specifications required by the Prison Service & Ministry of Justice.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the standards & specifications required by the Prison Service & Ministry of Justice

##### Door Frame

- 100x60x4mm & 100x100x4mm Hot Rolled Hollow Section Steel Frame to BS EN 10025:2004
- 12x12mm Solid Steel Rebates To BS EN 10025:2004 Stitch Welded All Round
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 4mm Pressed Steel Threshold Section Electro-Zinc Coated to BS EN 10152:2009 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Fully Site Welded Head Chemical Resin Anchors 8no.minimum per frame

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides Hot Dip Zinc Coated to BS EN 10346:2009
- 38x19x2mm Internal ERW Rectangular Steel Tube Skeleton Framework to BS EN 10305-3/5 Grade E220
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA40 to all Internal Voids to BS EN 13162:2001
- Tubular Pivot Hinge Full Length of Door Leaf as HMPS Specification
- Laminated Glass Vision Panel with Hinged Privacy Cover as HMPS Specification
- Preparation for Class 2 Chubb 3G112 Heavy Duty Mortice Deadlock Operable Both Sides
- Outer Steel Lock Box Welded Into Door Construction
- Two Heavy Duty Shoot Bolts Fitted To Secure Stairs Side
- Welded Steel Pull Handle Fitted To Secure Stairs Side

##### Standard Dimensions

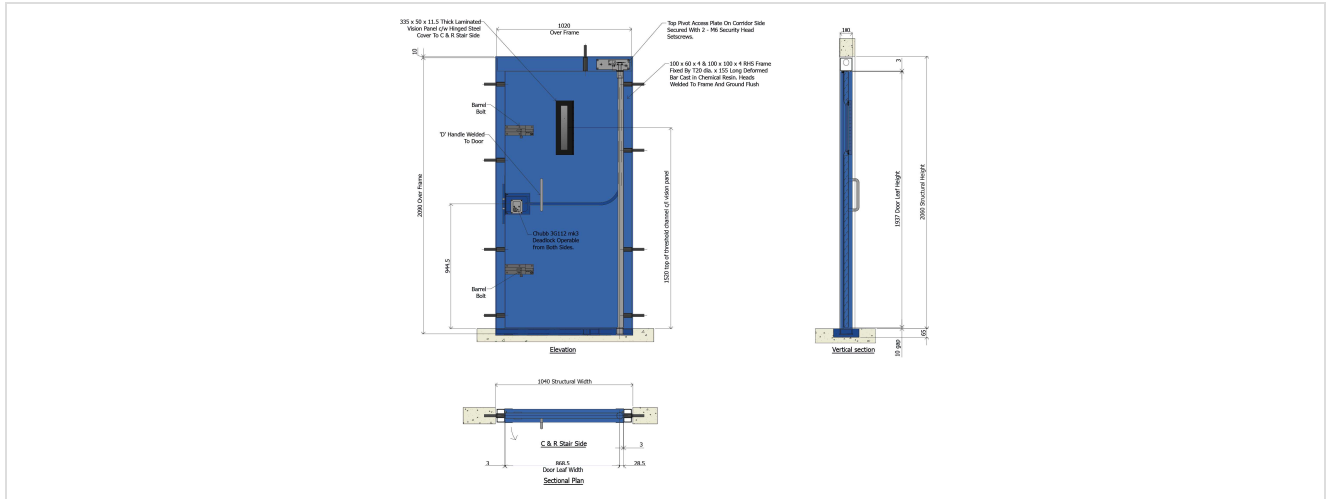
- Structural Opening 1040mm Wide x 2060mm High
- Overall Door Frame 1020mm Wide x 2050mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 868.5mm Wide CL Hinge Tube x 1927mm High x 42mm Thick
- Frame Clearance 10mm Jambs, 10mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut



#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd steel CERTIFIRE approved door & frame service duct door with 60 mins fire resistance integrity typically located in-between cells. The door incorporates a Chubb 3G114 5 lever mortice deadlock, 3no. butt hinges and recessed pull handle outside. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- CERTIFIRE Approved Fire Resistance 60 mins Integrity to BS EN 1634-1:2000 and BS 476 part 22
- Typical Insulation Value 3.2W/m<sup>2</sup>k
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

##### Door Frame

- 1.5mm thick Pressed Steel Profile Frame 100x65x50mm 15mm Rebate Hot Dip Zinc Coated to BS EN 10346:2009
- 3 or 4 Sided Frame
- Knock-Down or Fully Welded Frame Joints
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings 7.5mm dia x 72mm CSK T30 Concrete Screws 8no. minimum per frame

##### Door Leaf

- 1.2mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- Pre-Expanded Small Cell Honeycomb Core
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 3no. per Leaf
- Chubb 3G114 5 Lever Mortice Lock Operable Outside Only

##### Standard Dimensions

- Structural Opening 600mm Wide x 1800mm High
- Overall Door Frame 590mm Wide x 1790mm High (4 Sided Frame) 1793mm (3 Sided Frame)
- Door Leaf 484mm Wide x 1684mm High 4 Sided Frame, 1730mm 3 Sided Frame x 44mm Thick
- Frame Clearance 5mm Jambs, 5mm Head & Bottom 4 Sided Frame, 7mm 3 Sided Frame
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head & Bottom 4 Sided Frame, 10mm undercut 3 Sided Frame

#### Finish:

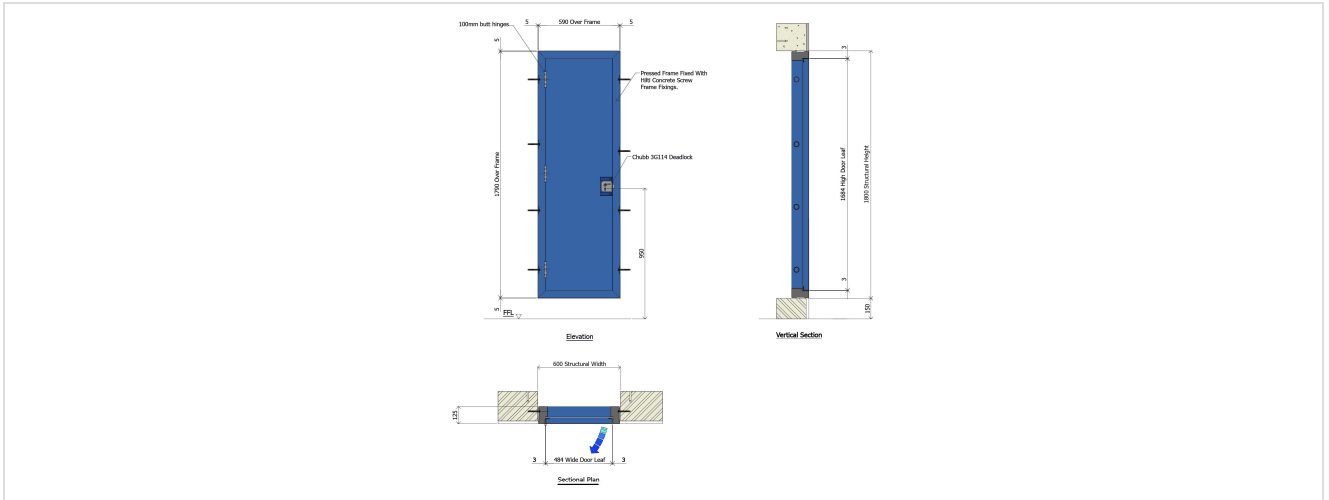
- Powder Coat Epoxy Primer to BS EN 12206-1:2004

# Custodial

## 9D026B

### Steel Service Duct Door

### Technical Design:



## Steel Service Duct Door with Integral Shoe Locker

### Application:

A Chubb Locks Custodial Services Ltd steel door & frame service duct door with integral shoe locker typically located in-between cells. The door incorporates a Chubb 3G114 5 lever mortice deadlock, 3no. butt hinges and recessed pull handle outside. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Typical Insulation Value 3.2W/m<sup>2</sup>k
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

#### Door Frame

- 1.5mm thick Pressed Steel Profile Frame 100x65x50mm 15mm Rebate Hot Dip Zinc Coated to BS EN 10346:2009
- 3 or 4 Sided Frame
- Knock-Down or Fully Welded Frame Joints
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings 7.5mm dia x 72mm CSK T30 Concrete Screws 8no. minimum per frame

#### Door Leaf

- 1.2mm thick Cold Rolled Steel Door Skins Both Sides & All Hot Dip Zinc Coated to BS EN 10346:2009
- Pre-Expanded Small Cell Honeycomb Core
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- 1.5mm thick Pressed Steel Integral Shoe Locker with Simple Cam Lock
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 3no. per Leaf
- Chubb 3G114 5 Lever Mortice Lock Operable Outside Only
- Recessed Pull Handle Outside Cast Stainless Steel Grade 304

#### Standard Dimensions

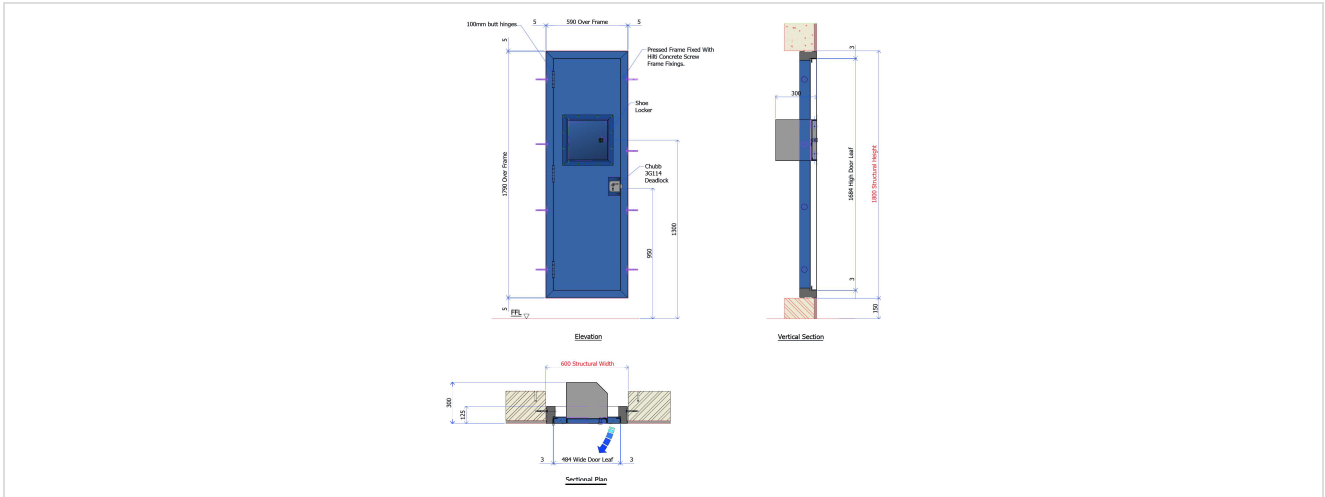
- Structural Opening 600mm Wide x 1800mm High
- Overall Door Frame 590mm Wide x 1790mm High (4 Sided Frame) 1793mm (3 Sided Frame)
- Door Leaf 484mm Wide x 1684mm High 4 Sided Frame, 1730mm 3 Sided Frame x 44mm Thick
- Frame Clearance 5mm Jambs, 5mm Head & Bottom 4 Sided Frame, 7mm 3 Sided Frame
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head & Bottom 4 Sided Frame, 10mm undercut 3 Sided Frame

### Finish:

### Steel Service Duct Door with Integral Shoe Locker

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services steel CERTIFIRE approved fire door & frame with 60 mins fire resistance integrity for use in prison wings. The door incorporates preparation for a NOMS approved deadlock, flush bolts & 3no. butt hinges per leaf.



#### Specification:

##### Specifications, Performance Data & Tolerances

- CERTIFIRE Approved Fire Resistance 60 mins Integrity to BS EN 1634-1:2000 and BS 476 part 22
- Typical Insulation Value 3.2W/m<sup>2</sup>k
- Hinges Tested to BS EN 1935:2002 Grade 13 200,000 Cycles 120kg Door Leaf

##### Door Frame

- 1.5mm thick Pressed Steel Profile Frame 100x65x50mm 15mm Rebate Hot Dip Zinc Coated to BS EN 10346:2009
- 3 Sided Frame with Low Profile Aluminium Threshold Plate
- Knock-Down Frame Joints
- Self-Adhesive Neoprene Smoke Seals
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings 7.5mm dia x 72mm CSK T30 Concrete Screws 10no. minimum per frame

##### Door Leafs

- 1.5mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- Reinforced Door Construction
- Pre-Expanded Small Cell Honeycomb Core
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 3no. per Leaf
- Outer Steel Lock Box Welded Into Internal Door Construction
- Active Door leaf Prepared for NOMS Approved Deadlock Supplied & Fitted By Others
- Inactive Leaf Fitted with Two Fire Rated Steel Flush Bolts

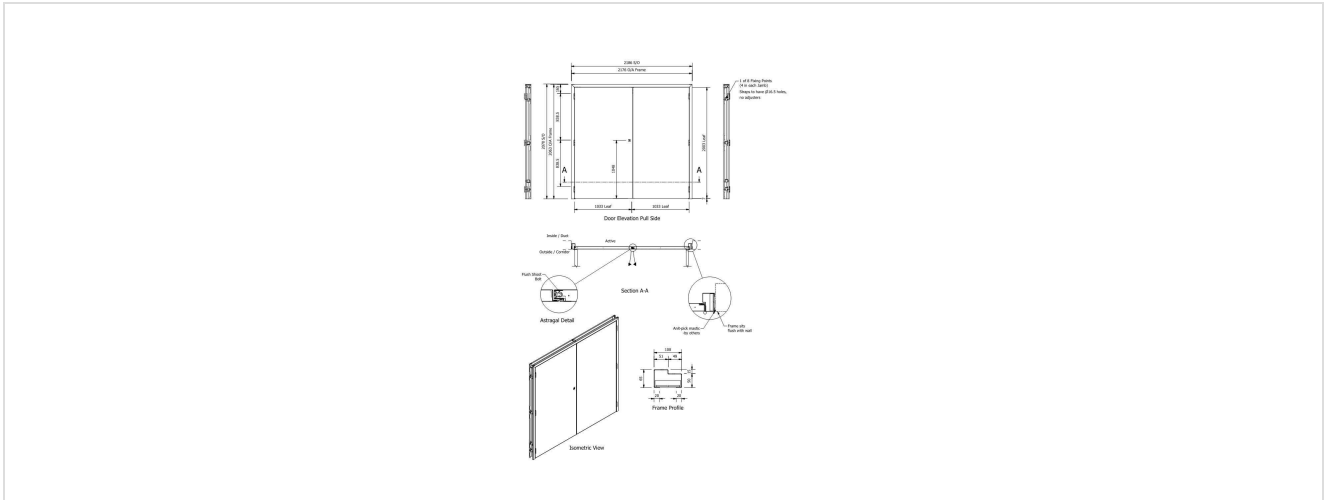
##### Standard Dimensions

- Structural Opening 2186mm Wide x 2070mm High
- Overall Door Frame 2176mm Wide x 2063mm High
- Door Leaf 1033mm Wide x 2003mm High x 44mm Thick
- Frame Clearance 5mm Jamb, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 3mm hinge, 3mm head, 7mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services steel CERTIFIRE approved fire door & frame with 60 mins fire resistance integrity for use in prison wings. The door incorporates preparation for a NOMS approved deadlock, flush bolts & 3no. butt hinges per leaf.



#### Specification:

##### Specifications, Performance Data & Tolerances

- CERTIFIRE Approved Fire Resistance 60 mins Integrity to BS EN 1634-1:2000 and BS 476 part 22
- Typical Insulation Value 3.2W/m<sup>2</sup>k
- Hinges Tested to BS EN 1935:2002 Grade 13 200,000 Cycles 120kg Door Leaf

##### Door Frame

- 1.5mm thick Pressed Steel Profile Frame 100x65x50mm 15mm Rebate Hot Dip Zinc Coated to BS EN 10346:2009
- 3 Sided Frame with Low Profile Aluminium Threshold Plate
- Knock-Down Frame Joints
- Self-Adhesive Neoprene Smoke Seals
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings 7.5mm dia x 72mm CSK T30 Concrete Screws 10no. minimum per frame

##### Door Leafs

- 1.5mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- Reinforced Door Construction
- Pre-Expanded Small Cell Honeycomb Core
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 3no. per Leaf
- Outer Steel Lock Box Welded Into Internal Door Construction
- Active Door leaf Prepared for NOMS Approved Deadlock Supplied & Fitted By Others
- Inactive Leaf Fitted with Two Fire Rated Steel Flush Bolts

##### Standard Dimensions

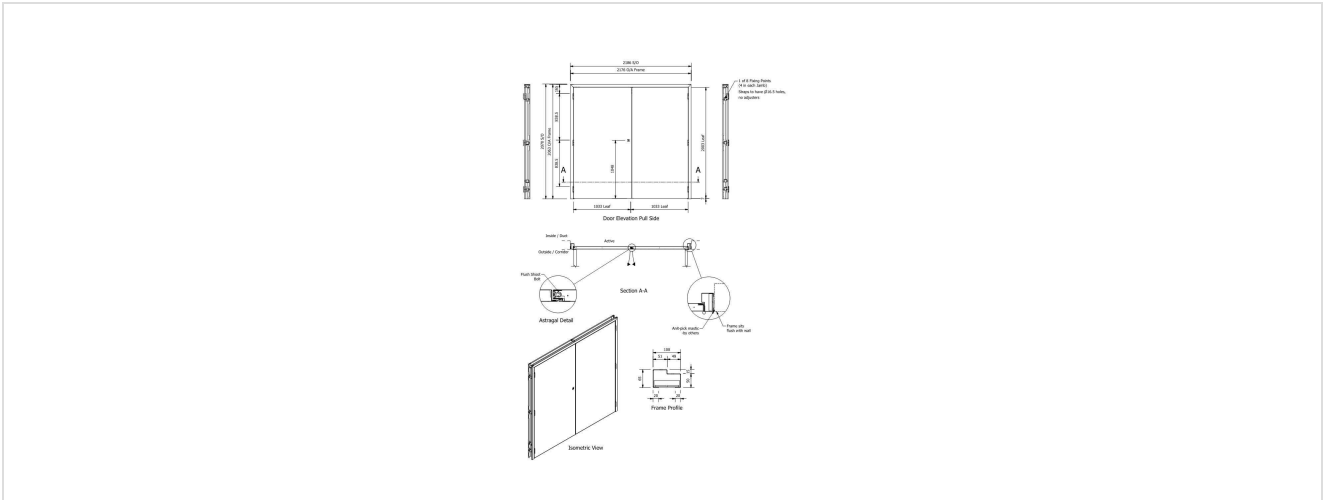
- Structural Opening 2186mm Wide x 2070mm High
- Overall Door Frame 2176mm Wide x 2063mm High
- Door Leaf 1033mm Wide x 2003mm High x 44mm Thick
- Frame Clearance 5mm Jamb, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 3mm hinge, 3mm head, 7mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004



### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd solid timber door & frame personnel door with optional 60 mins fire resistance integrity typically used for staff offices, toilets etc. within custody. The door incorporates a Chubb 3J60 5 lever mortice deadlocking latch & knob furniture both sides and 4no. butt hinges. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

##### Door Frame

- Monolithic Hardwood Frame Section 3 Sides 125x75x50mm 25mm Rebate
- Sapele Hardwood Kiln Dried Moisture Content 10 -14% Density 640kg/m<sup>3</sup>
- Mortice & Tenon Joints
- Counterbored & Pelleted Fixings
- Frame Fixings 12mm dia x 100mm Sleeve Anchors 8no. minimum per frame

##### Door Leaf

- FD60 Certified 54mm thick Solid Timber Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles Average Density 460 - 500kg/m<sup>3</sup>
- Typically 9mm – 12mm Hardwood Lipping Bonded All 4 Edges Minimum Density 640kg/m<sup>3</sup> 15% MC
- Chubb 3J60 5 Lever Mortice Deadlocking latch with knob furniture both sides
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 4no. per Leaf

##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High
- Door Leaf 794mm Wide x 2030mm High Excluding Hinge(s) x 54mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut

#### Finish:

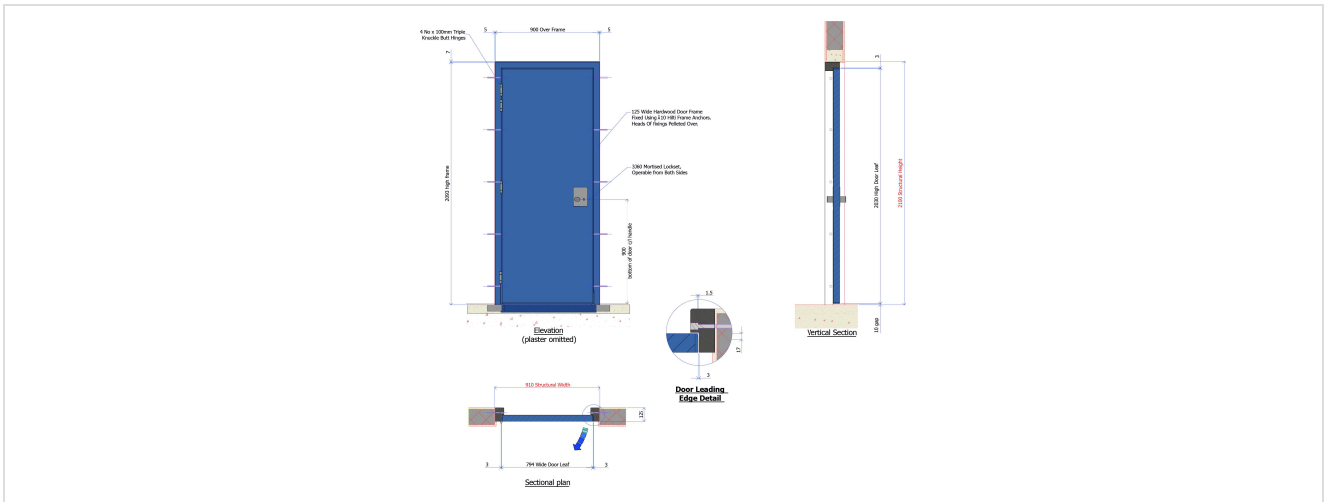
- Water Based Two Coat Prime Paint

# Custodial

## 9D027A

### Timber Personnel Door

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd solid timber door & frame personnel door with optional 60 mins fire resistance integrity typically used for staff offices, toilets etc. within custody. The door incorporates a laminated glass vision panel, Chubb 3J60 5 lever mortice deadlocking latch & knob furniture both sides and 4no. butt hinges. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

##### Door Frame

- Monolithic Hardwood Frame Section 3 Sides 125x75x50mm 25mm Rebate
- Sapele Hardwood Kiln Dried Moisture Content 10 -14% Density 640kg/m<sup>3</sup>
- Mortice & Tenon Joints
- Counterbored & Pelleted Fixings
- Frame Fixings 12mm dia x 100mm Sleeve Anchors 8no. minimum per frame

##### Door Leaf

- FD60 Certified 54mm thick Solid Timber Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles Average Density 460 - 500kg/m<sup>3</sup>
- Typically 9mm – 12mm Hardwood Lipping Bonded All 4 Edges Minimum Density 640kg/m<sup>3</sup> 15% MC
- Chubb 3J60 5 Lever Mortice Deadlocking latch with knob furniture both sides
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 4no. per Leaf
- Laminated Glass vision Panel with Hardwood Beading

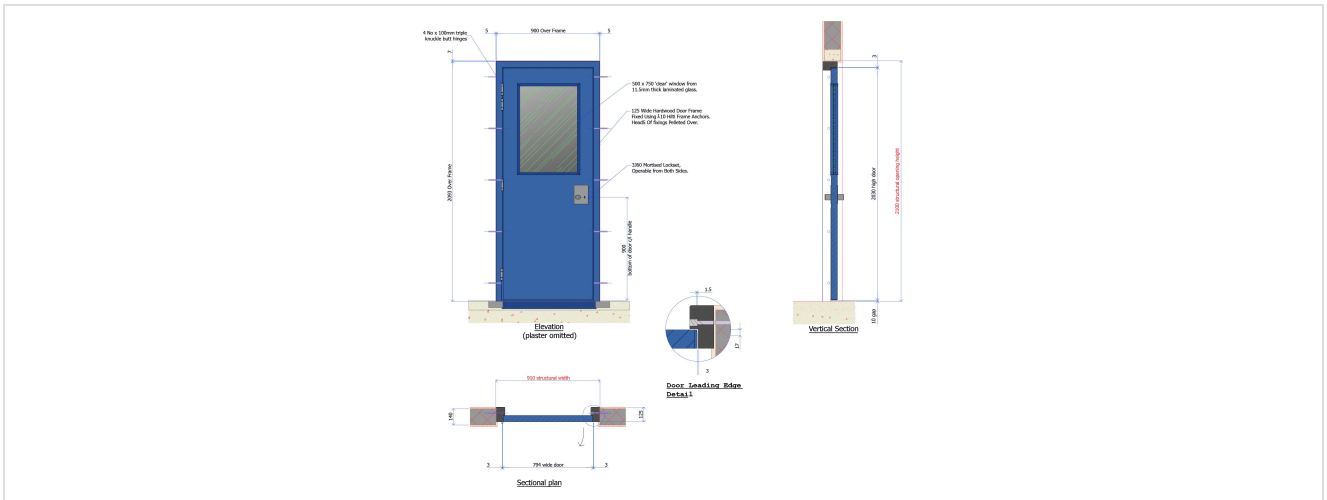
##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High
- Door Leaf 794mm Wide x 2030mm High Excluding Hinge(s) x 54mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut

#### Finish:

- Water Based Two Coat Prime Paint

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd heavy duty secure steel door constructed in accordance with The Home Office Firearms Security Handbook 2005 and The Health & Safety Executive Circular to Chief Officers of Police Mo.1 2005 for the safe storage of firearms.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Health & Safety Executive Circular to Chief Officers of Police No.1 2005 for the Security of Licenced & Registered Explosives Stores & Registered Premises
- Conforms to the Firearms Security Handbook 2005 Produced By The Home Office, The Associations of Chief Police Officers and The British Sports Council

##### Door Frame

- 100x75x10mm Rolled Steel Angle 3 Sided Frame to BS EN 10025:2004
- 100x10mm Flat Section Continuous Fixing Plates 3 Sides to BS EN 10025:2004
- 100x10mm Steel Threshold Plate
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Wall Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 24no. min

##### Door Leaf

- 10mm thick One Piece Cold Rolled Steel Electro-Zinc Coated to BS EN 10152:2009
- All Edges De-burred & Ground Smooth
- 8mm Dia x 150mm Welded Steel Pull Handle Outside Deliberately Weak So Cannot Be Used to Attack The Door
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- 2no. Chubb 3G317 Heavy Duty Mortice Deadlocks Keyed to Differ
- Locks Mounted into Reinforced Outer Steel Boxes Continuously Welded to Door Leaf
- Anti-Drill Lock Plates Welded To Outside Of Door Leaf
- 3no. Heavy Duty Anti-Lift Strap Hinges Continuously Welded to Door Leaf & Frame
- 4no. Heavy Duty Steel Hinge Bolts Continuously Welded to Door Leaf

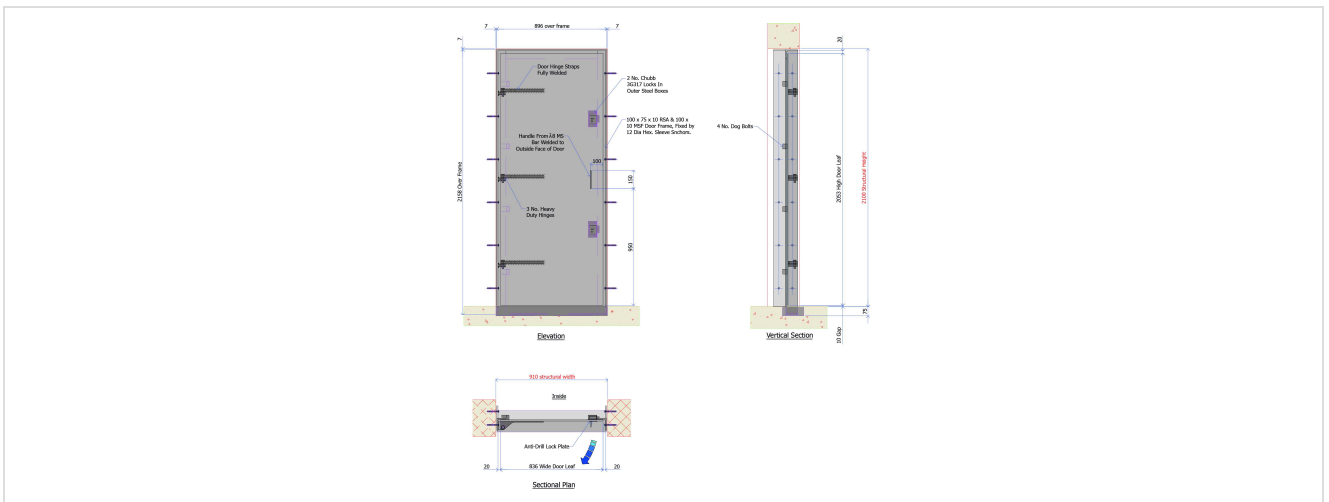
##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 896mm Wide x 2092mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 836mm Wide x 2053mm High Excluding Hinge(s) x 10mm Thick
- Frame Clearance 7mm Jambs, 8mm Head
- Door Leaf Clearance 20mm Leading Edge, 20mm hinge, 20mm head, 10mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd solid timber decency door & frame typically used in shower facilities located within custody. The door incorporates a heavy duty roller catch and 3no. butt hinges. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

##### Door Frame

- Two Part Ash Hardwood Frame Posts 2 Sides 125x45mm Plus 40x20mm Planted Rebates
- Loose Ash Rebate Stops Secured by CSK Security Head Screws
- European Ash Hardwood Kiln Dried Moisture Content 10 -14% Density 710kg/m<sup>3</sup>
- Concealed Frame Fixings Beneath Rebate Stops
- Frame Fixings Hilti HRD-CR 10x140mm Anchors 6no. minimum per door

##### Door Leaf

- 44mm thick Solid Timber Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles Average Density 460 - 500kg/m<sup>3</sup>
- White Matt Formica Facing Heat Pressure Bonded to Both Sides 45C @2500lbs/in<sup>2</sup> for 6 mins
- Typically 9mm – 12mm Hardwood Ash Lipping Bonded All 4 Edges Minimum Density 710kg/m<sup>3</sup> 10 -14% MC
- Heavy Duty Roller Catch
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 3no. per Leaf

##### Standard Dimensions

- Structural Opening 1000mm Wide
- Overall Door Frame Posts 990mm Wide x 1515mm High 400mm From FFL
- Door Leaf 894mm Wide x 1515mm High Excluding Hinge(s) x 46mm Thick
- Frame Clearance 5mm Jambs
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 400mm from FFL

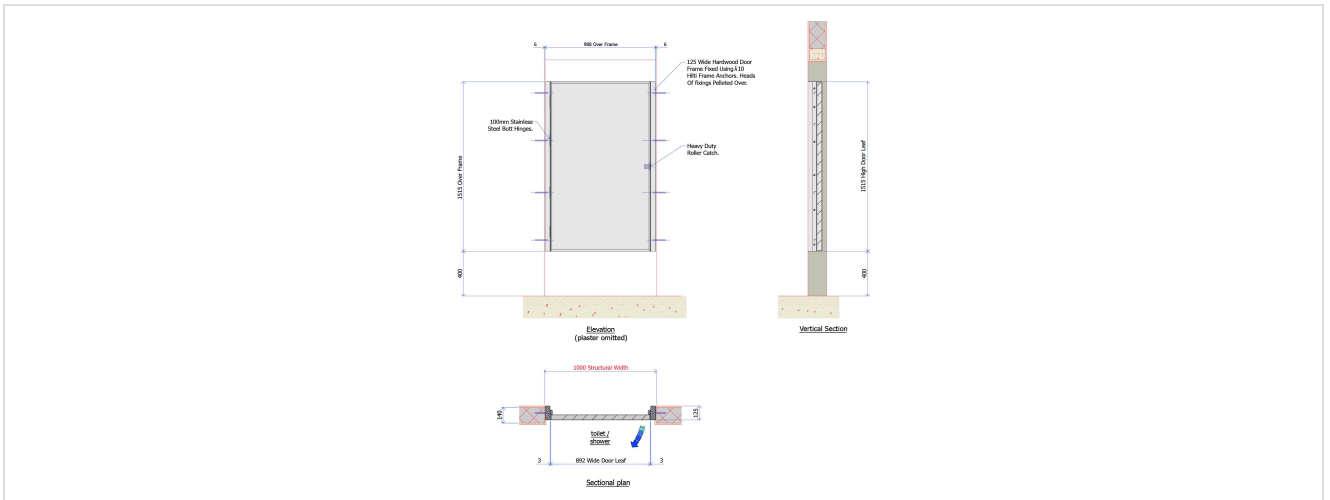
#### Finish:

- Lacquer Two Pack Semi-Matt 20% Sheen



# Custodial 9D030 Decency Door

## Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd heavy duty single barred grille gate conforming to the Police Buildings Custody Design Guide, National Police Estates Group Best Practice Document, Court Standards & Design Guide and the standards & specifications required by the Prison Service.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Conforms to the Court Standards & Design Guide
- Conforms to the standards & specifications required by the Prison Service
- 150mm Max Centres 30mm dia Bars
- 460mm Max Centres 65x12mm Flat Steel Horizontal Frame Sections

##### Gate Leaf

- 65x12mm Flat Steel Section Frame & Horizontals to BS EN 10025:2004
- 30mm diameter Steel Vertical Bars to BS EN 10025:2004
- Bars Continuously Welded at Each Intersection
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Anti-Spring Horns Welded to Hinge Side of Gate to Prevent Unauthorised 'Springing' of Lock
- Gate Leading Edge to Have Anti-Lift Horn to Prevent Unauthorised lifting from Bottom Hinge Socket
- Outer Steel Lock Box Continuously Welded into Gate leaf
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Welded Steel Lock Shroud to Protect Lock Bolt

##### Hinges

- 180 degree Opening Top & Bottom Pivot Hinges
- Bottom Hinge Ball Bearing Mounted Cast Into Floor
- All Welds Continuous
- Dust Cover Over Bottom Hinge Socket
- Top Hinge Pin Locking with Phosphor Bronze Bearing
- Top Hinge Pin Bracketed to Wall & Fixed with 3no. Hilti HSL-TZ M8/20 Sleeve Anchors

##### Slam Angle

- 65x12mm Flat Steel Sections Joined to Form Angle to BS EN 10025:2004
- Machined Solid Steel Lock Bolt Receiver
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Wall Fixings Hilti HSL-TZ CSK M8/20 Sleeve Anchors 6no. min

##### Standard Dimensions

- Structural Opening 1125mm Wide x 2100mm High
- Gate Leaf 970mm Wide x 1956mm High Excluding

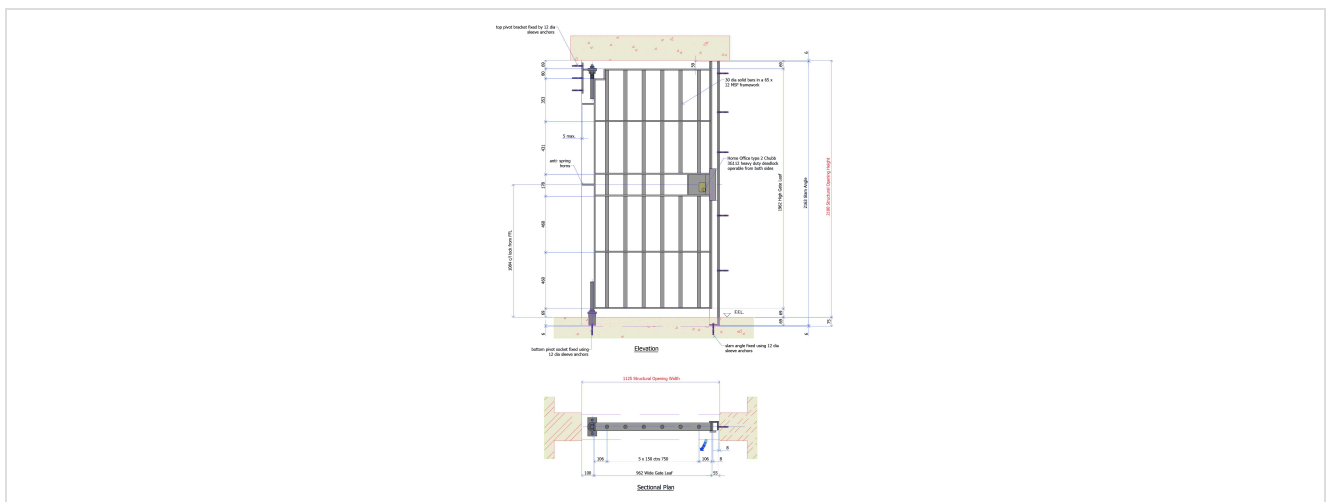
Hinge(s) x 65mm Thick

- Gate Leaf Clearance 55mm Leading Edge to Jamb, 100mm hinge, 69mm head, 75mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd heavy duty barred grille gate with side panel conforming to the Police Buildings Custody Design Guide, National Police Estates Group Best Practice Document, Court Standards & Design Guide and the standards & specifications required by the Prison Service.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Conforms to the Court Standards & Design Guide
- Conforms to the standards & specifications required by the Prison Service
- 150mm Max Centres 30mm dia Bars
- 460mm Max Centres 65x12mm Flat Steel Horizontal Frame Sections

##### Gate Leaf

- 65x12mm Flat Steel Section Frame & Horizontals to BS EN 10025:2004
- 30mm diameter Steel Vertical Bars to BS EN 10025:2004
- Bars Continuously Welded at Each Intersection
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Anti-Spring Horns Welded to Hinge Side of Gate to Prevent Unauthorised 'Springing' of Lock
- Gate Leading Edge to Have Anti-Lift Horn to Prevent Unauthorised lifting from Bottom Hinge Socket
- Outer Steel Lock Box Continuously Welded into Gate leaf
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Welded Steel Lock Shroud to Protect Lock Bolt

##### Side Panel

- 65x12mm Flat Steel Section Frame & Horizontals to BS EN 10025:2004
- 30mm diameter Steel Vertical Bars to BS EN 10025:2004
- Bars Continuously Welded at Each Intersection
- 65x12 Flat Steel Sections Joined to Form Slam Angle to BS EN 10025:2004
- Machined Solid Steel Lock Bolt Receiver
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Anti-Spring Horns Welded to Wall Side of Side Panel to Prevent Unauthorised 'Springing' of Lock
- 6mm thick Top & Bottom Fixing Plates to BS EN 10025:2004
- Floor & Head Fixings Hilti HSL-TZ M8/20 Sleeve Anchors

##### Hinges

- 180 degree Opening Top & Bottom Pivot Hinges
- Bottom Hinge Ball Bearing Mounted Cast Into Floor
- All Welds Continuous

- Dust Cover Over Bottom Hinge Socket
- Top Hinge Pin Locking with Phosphor Bronze Bearing
- Top Hinge Pin Bracketed to Wall & Fixed with 3no. Hilti HSL-TZ M8/20 Sleeve Anchors

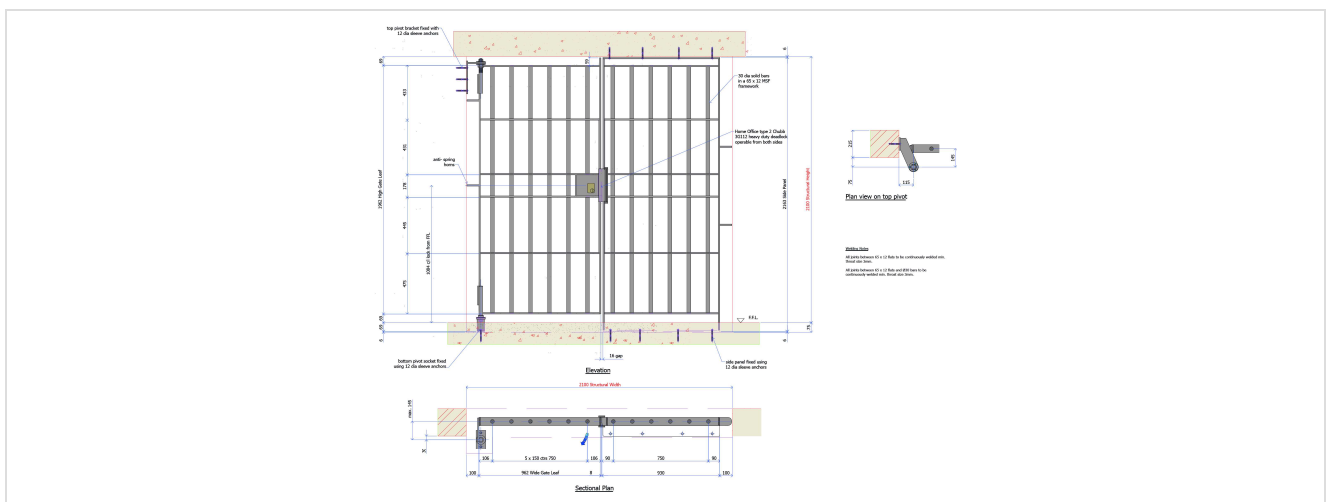
#### Standard Dimensions

- Structural Opening 2100mm Wide x 2100mm High
- Gate Leaf 912mm Wide x 1956mm High Excluding Hinge(s) x 65mm Thick
- Gate Leaf Clearance 8mm Leading Edge to Slam, 100mm hinge, 69mm head, 75mm undercut
- Side Panel 980mm Wide x 2100mm High from FFL
- Side panel Clearance 100mm to Jamb

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd medium duty single barred grille gate traditionally used in Armed Forces barracks. The design was taken from previous versions of the Police Buildings Custody Design Guide and Court Standards & Design Guide.

#### Specification:

##### Specifications, Performance Data & Tolerances

- 150mm Max Centres 20mm dia Bars
- 470mm Max Centres 50x25x3mm Rolled Hollow Steel Horizontal Frame Sections

##### Gate Leaf

- 50x25x3mm Rolled Hollow Steel Section Frame & Horizontals to BS EN 10025:2004
- 20mm diameter Steel Vertical Bars to BS EN 10025:2004
- Bars Continuously Welded at Each Intersection
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Outer Steel Lock Box Continuously Welded into Gate leaf
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Welded Steel Lock Shroud to Protect Lock Bolt

##### Hinges

- 90 degree Opening Top & Bottom Pivot Hinges
- Bottom Hinge Ball Bearing Mounted Cast Into Floor
- All Welds Continuous
- Top Hinge Pin Socket Welded to Header Rail
- Top Hinge Pin Bracketed to Wall via Header Rail & Fixed with 3no. Hilti HSL-TZ M8/20 Sleeve Anchors

##### Slam Angle

- 65x50x6mm Rolled Steel Angle to BS EN 10025:2004
- Preparation for Lock Bolt with Welded Back Box
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Wall Fixings Hilti HSL-TZ CSK M8/20 Sleeve Anchors 6no. min

##### Standard Dimensions

- Structural Opening 1125mm Wide x 2100mm High
- Gate Leaf 1038mm Wide x 1875mm High Excluding Hinge(s) x 50mm Thick
- Gate Leaf Clearance 6mm Leading Edge to Slam Angle, 75mm hinge, 75mm head/25mm Header Rail/50mm Clearance Over, 75mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

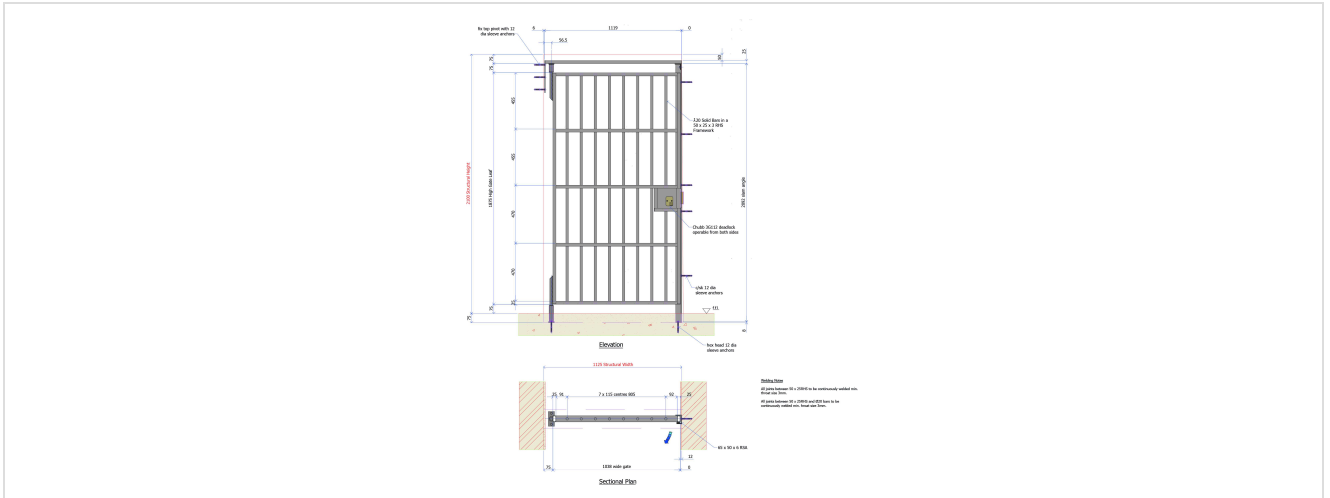


# Custodial

## 9G001C

### Medium Duty Single Gate

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd medium duty single barred grille gate traditionally used in Armed Forces barracks. The design was taken from previous versions of the Police Buildings Custody Design Guide and Court Standards & Design Guide.

#### Specification:

##### Specifications, Performance Data & Tolerances

- 150mm Max Centres 20mm dia Bars
- 470mm Max Centres 50x25x3mm Rolled Hollow Steel Horizontal Frame Sections

##### Gate Leaf

- 50x25x3mm Rolled Hollow Steel Section Frame & Horizontals to BS EN 10025:2004
- 20mm diameter Steel Vertical Bars to BS EN 10025:2004
- Bars Continuously Welded at Each Intersection
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Anti-Spring Horns Welded to Hinge Side of Gate to Prevent Unauthorised 'Springing' of Lock
- Gate Leading Edge to Have Anti-Lift Horn to Prevent Unauthorised lifting from Bottom Hinge Socket
- Outer Steel Lock Box Continuously Welded into Gate leaf
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Welded Steel Lock Shroud to Protect Lock Bolt

##### Side Panel

- 50x25x3mm Rolled Hollow Steel Section Frame & Horizontals to BS EN 10025:2004
- 20mm diameter Steel Vertical Bars to BS EN 10025:2004
- 65x50x6mm Rolled Steel Slam Angle to BS EN 10025:2004
- Preparation for Lock Bolt with Welded Back Box
- Bars Continuously Welded at Each Intersection
- 65x12 Flat Steel Sections Joined to Form Slam Angle to BS EN 10025:2004
- Machined Solid Steel Lock Bolt Receiver
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Anti-Spring Horns Welded to Wall Side of Side Panel to Prevent Unauthorised 'Springing' of Lock
- 6mm thick Top & Bottom Fixing Plates to BS EN 10025:2004
- Floor & Head Fixings Hilti HSL-TZ M8/20 Sleeve Anchors

##### Hinges

- 90 degree Opening Top & Bottom Pivot Hinges
- Bottom Hinge Ball Bearing Mounted Cast Into Floor
- All Welds Continuous
- Top Hinge Pin Socket Welded to Header Rail
- Top Hinge Pin Bracketed to Wall via Header Rail & Fixed with 3no. Hilti HSL-TZ M8/20 Sleeve Anchors

##### Standard Dimensions



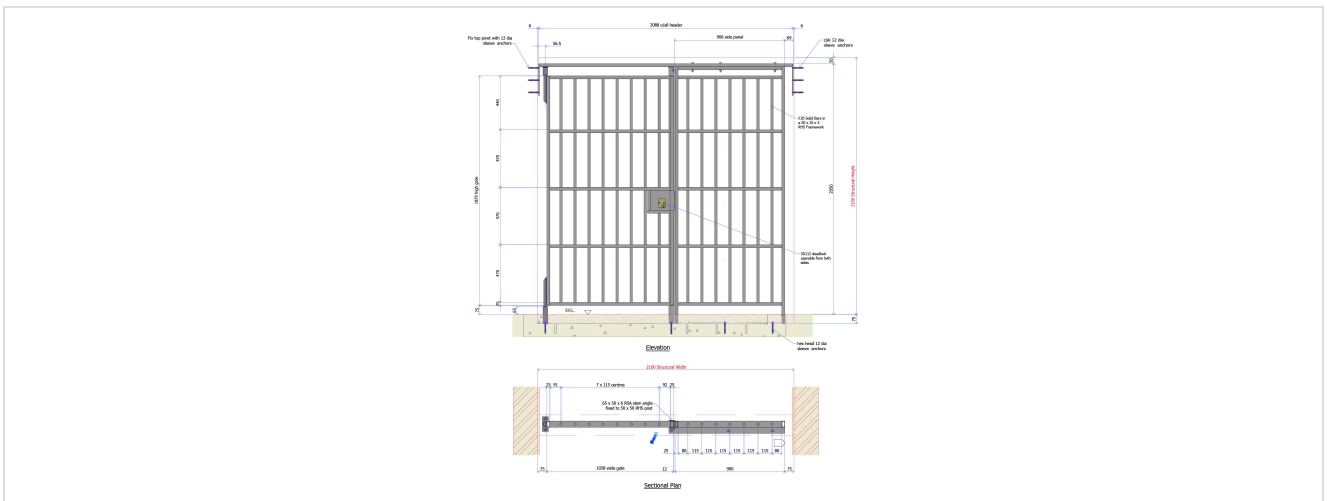


- Structural Opening 2100mm Wide x 2100mm High
- Gate Leaf 1038mm Wide x 1875mm High Excluding Hinge(s) x 50mm Thick
- Gate Leaf Clearance 6mm Leading Edge to Slam Angle, 75mm hinge, 75mm head/25mm Header Rail/50mm Clearance Over, 75mm undercut
- Side Panel 900mm Wide x 2025mm High from FFL
- Side Panel Clearance to Jamb 75mm

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd prison manhole barred grille gate constructed to the standards & specifications required by the Prison Service. Typically used to secure manholes within prison grounds.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms To The Standards & Specifications Required By The Prison Service & Ministry of Justice
- 150mm Max Centres 30mm dia Bars
- 460mm Max Centres 65x12mm Flat Steel Horizontal Frame Sections

##### Gate Leaf

- 65x12mm Flat Steel Section Frame & Horizontals to BS EN 10025:2004
- 30mm diameter Steel Bars to BS EN 10025:2004
- Bars Continuously Welded at Each Intersection
- 150x12mm Flat Steel Section Leading Edge to BS EN 10025:2004 With Hasp & Staple preparation
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- 30mm diameter Full Length Solid Steel Hinge Pin
- Non-Removable Hinged Steel Lifting Handle
- Non-Removable Hinged Steel Gate Stay

##### Gate Frame

- 50x12mm Flat Steel Section Frame to BS EN 10025:2004
- Heavy Duty Fabricated Hasp & Staple Continuously Welded into Gate Frame
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Stitch Welded Fabrication
- Welding to BS EN 1011-2: 2001
- Floor Fixings 4no. M12 Chemical Resin Anchors

##### Standard Dimensions

- Structural Opening 800mm Wide x 800mm Long

#### Finish:

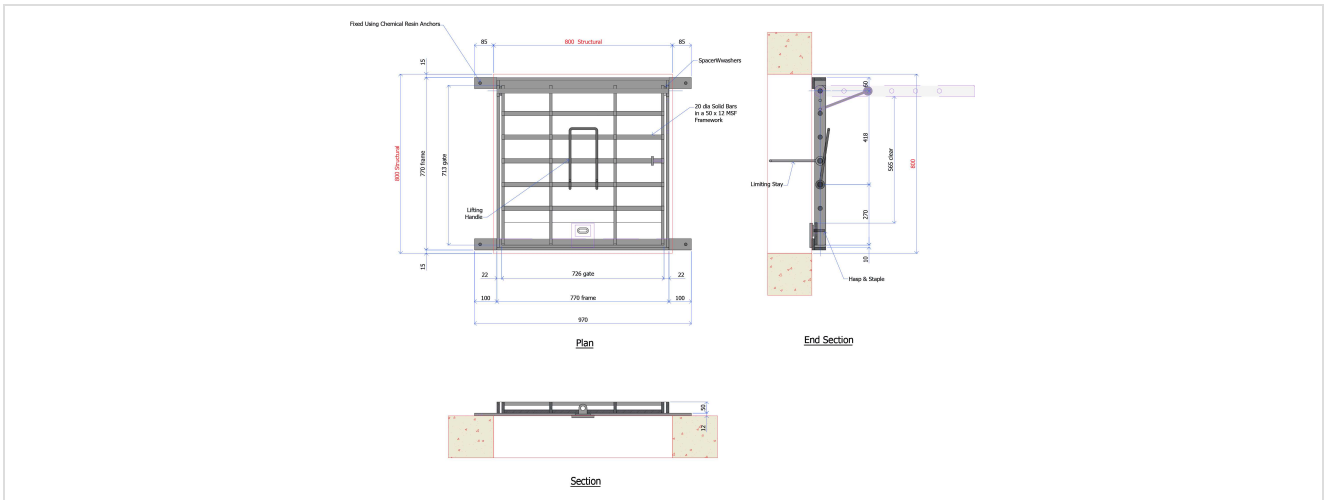
- Powder Coat Epoxy Primer to BS EN 12206-1:2004

# Custodial

## 9G002F

### Prison Manhole Gate

## Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd overhead sliding barred grille gate constructed to the standards & specifications required by the Prison Service. Typically used to secure roof voids or service areas.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms To The Standards & Specifications Required By The Prison Service & Ministry of Justice
- 150mm Max Centres 30mm dia Bars
- 460mm Max Centres 65x12mm Flat Steel Horizontal Frame Sections

##### Gate Leaf

- 65x12mm Flat Steel Section Frame & Horizontals to BS EN 10025:2004
- 30mm diameter Steel Vertical Bars to BS EN 10025:2004
- Bars Continuously Welded at Each Intersection
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Outer Steel Lock Box Continuously Welded into Gate leaf
- Type 2 Chubb 3M56 Heavy Duty Mortice Hook Bolt Lock Operable Both Sides
- 4no. 100mm Diameter Cast Iron Wheels

##### Sliding Track Gear

- 90x90x6mm Rolled Steel Angle to BS EN 10025:2004
- 80x90x6mm Rolled Steel Angle to BS EN 10025:2004
- 150x6mm Steel Flat Base Plates to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Stitch Welded Fabrication
- Welding to BS EN 1011-2: 2001
- Floor Fixings 6no. M12 Chemical Resin Anchors Per Track

##### Slam Angle

- 90x90x6mm Rolled Steel Angle to BS EN 10025:2004
- 6mm thick Cold Rolled Flat Steel Gusset Plates Electro-Zinc Coated to BS EN 10152:2009
- Hook Bolt Lock Preparation With Box To Conceal Bolt
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Floor Fixings 2no. M12 Chemical Resin Anchors

##### Standard Dimensions

- Structural Opening 900mm Wide x 900mm Long

#### Finish:

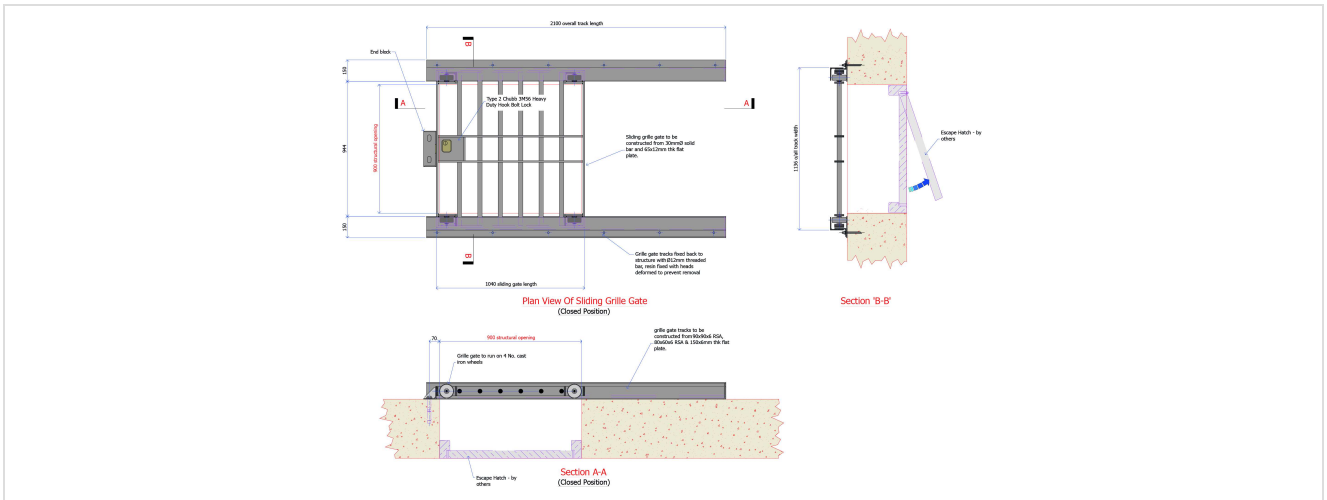
- Powder Coat Epoxy Primer to BS EN 12206-1:2004

# Custodial

## 9G004

### Overhead Sliding Gate

## Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd Home Office specification ventilation grille for police cells incorporating 2mm diameter holes conforming to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document

##### Grille

- Double 2mm thick Sheets of Stainless Steel to Form a 4mm thick Plate Grade 304 to BS EN 10088
- Double Plates Securely Spot Welded Together
- 2.0mm diameter MAX holes @ 4mm Staggered Pitch
- Ventilation 18% Free Area
- Securely Stitch Welded Into Outer Frame
- Grille Flush With Outer Frame

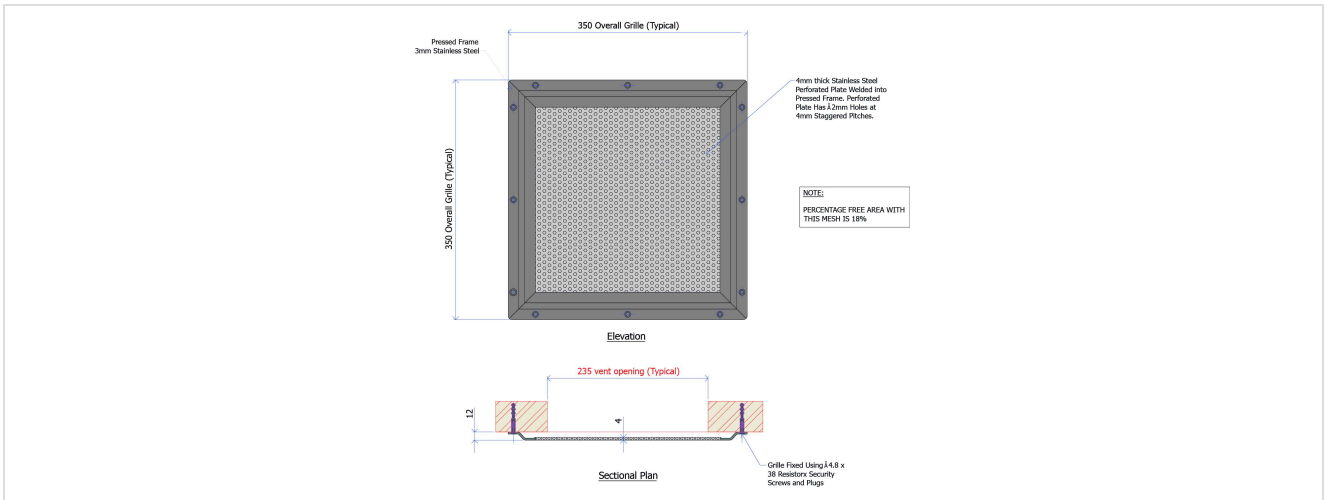
##### Frame

- 3mm thick Pressed Profile Stainless Steel Grade 304 to BS EN 10088
- Welded & Ground Smooth Corners
- 180 Grit Dull Polish RA 1.0 – 1.7 EN 1J or 2J
- Radius Corners & All Edges De-Burred
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- 4.8mm diameter x 38mm CSK Security Head Screws  
Stainless Steel Grade A2 & Wall Plugs

#### Finish:

- Stainless Steel 180 Grit Dull Polish RA 1.0 – 1.7 EN 1J or 2J

#### Technical Design:



### Application:

A Chubb Locks Custodial Services Ltd robust, anti-vandal, ligature-resisting steel radiator covers for protecting radiators in secure areas.

### Specification:

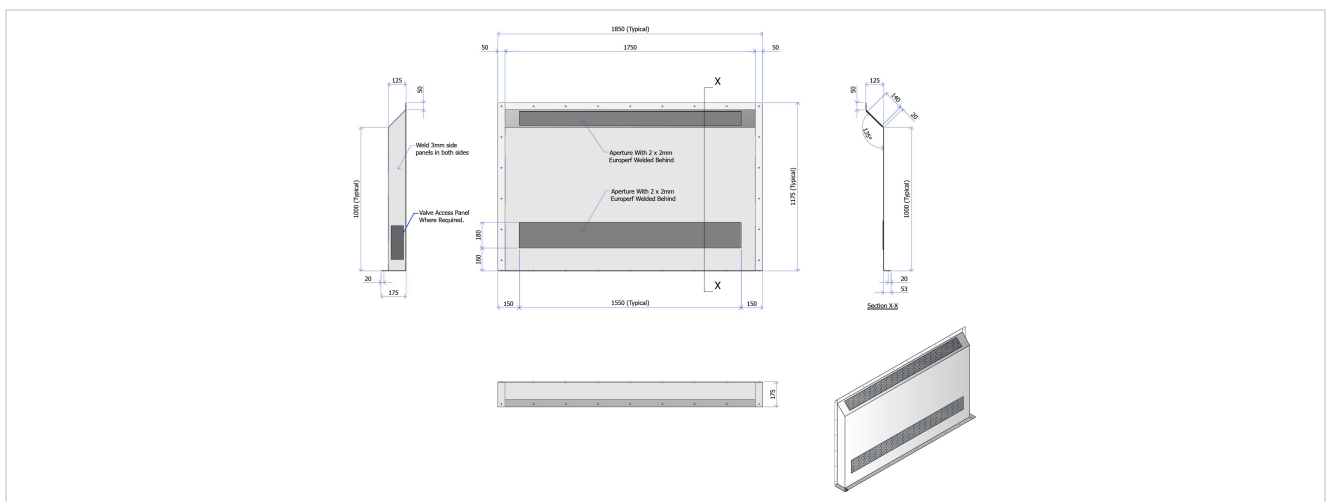
#### Construction

- 3mm thick Cold Rolled Pressed Steel Electro-Zinc Coated to BS EN 10152:2009
- Upper & Lower Areas of 2.0mm diameter MAX Perforations @ 4mm Staggered Pitch
- Removable Access Covers for Radiator Valves Secured By Security Head Screws
- Fully Welded Joints & Ground Smooth
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Wall & Floor Fixings 4.8mm diameter x 38mm CSK Security Screws Stainless A2 & Plugs

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:





#### Application:

A Chubb Locks Custodial Services Ltd Home Office specification cell bench for police cells constructed from a supporting steel underframe with perforated stainless steel front panel and Corian solid surface & plywood seat. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.



#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document

##### Supporting Underframe

- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 40x40x6mm Flat Steel Floor Fixing Plates to BS EN 10025:2004
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 8no. minimum per frame

##### Front Panel

- 2mm thick Stainless Steel Grade 304 to BS EN 10088
- 2.0mm diameter MAX Perforations at 4mm Staggered Pitch
- 180 Grit Dull Polish RA 1.0 – 1.7 EN 1J or 2J

##### Bench Seat

- Double Layers of 25mm thick Water Boiling Proof Grade Birch Plywood
- 13mm thick Corian Solid Surface Fire Retardant Class A0 Glacier White
- Corian Pressure Bonded to Plywood using 3M Fastbond 40 Neoprene Adhesive with the Approved Home Office Bonding Method
- Home Office Specification Laminated Nosing Detail
- Pelleted Corian Seat Fixings using 'Bone' Coloured Adhesive for Identification

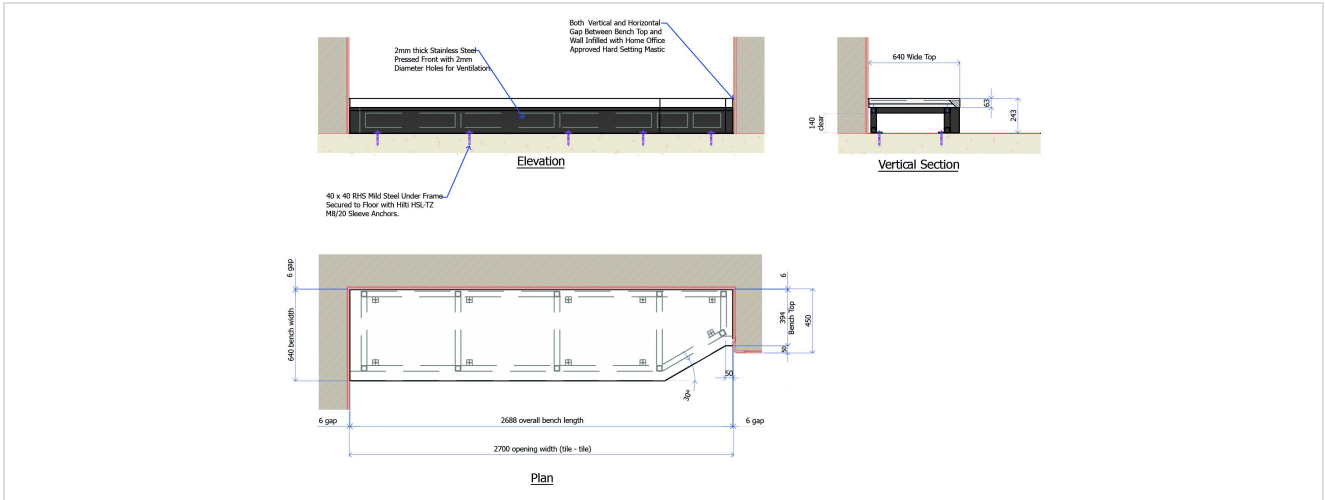
##### Standard Dimension

- 640mm Wide x 243mm High x Any Length Typically 2400 – 2700mm

#### Finish:

- Supporting Underframe Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd Home Office specification cell bench for police holding cells constructed from a supporting steel underframe with perforated stainless steel front panel and Corian solid surface & plywood seat. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document

##### Supporting Underframe

- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- 40x40x6mm Flat Steel Floor Fixing Plates to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 8no. minimum per frame

##### Front Panel

- 2mm thick Stainless Steel Grade 304 to BS EN 10088
- 2.0mm diameter MAX Perforations at 4mm Staggered Pitch
- 180 Grit Dull Polish RA 1.0 – 1.7 EN 1J or 2J

##### Bench Seat

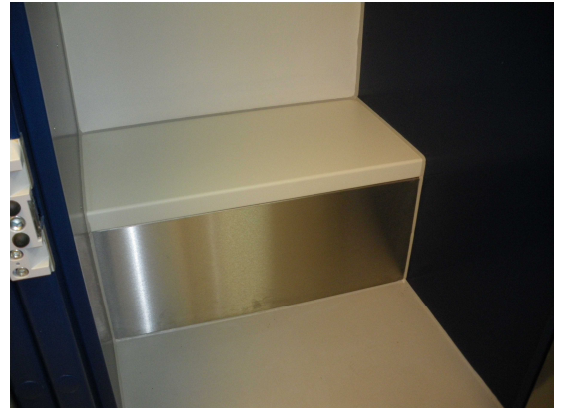
- Double Layers of 25mm thick Water Boiling Proof Grade Birch Plywood
- 13mm thick Corian Solid Surface Fire Retardant Class A0 Glacier White
- Corian Pressure Bonded to Plywood using 3M Fastbond 40 Neoprene Adhesive with the Approved Home Office Bonding Method
- Home Office Specification Laminated Nosing Detail
- Pelleted Corian Seat Fixings using 'Bone' Coloured Adhesive for Identification

##### Standard Dimensions

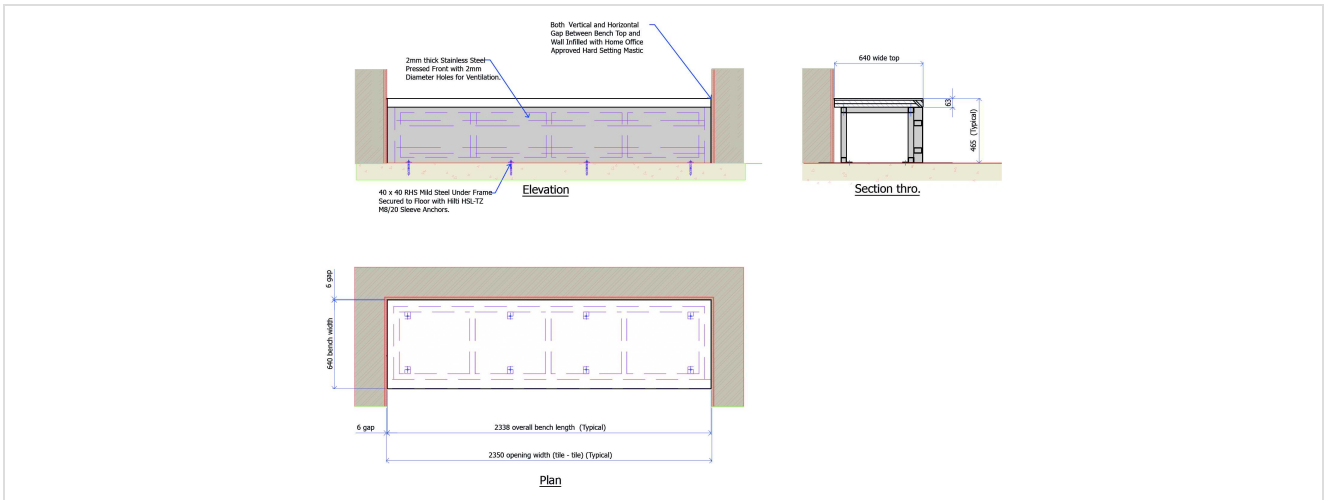
- 640mm Wide x 465mm High x Any Length

#### Finish:

- Supporting Underframe Powder Coat Epoxy Primer to BS EN 12206-1:2004



#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd steel cantilever prison cell bunk single.

#### Specification:

##### Construction

- 3mm thick Pressed Cold Rolled Steel Mattress Base Electro-Zinc Coated to BS EN 10152:2009
- Folded Up Safety Edge to Hold Mattress In Place
- 5mm thick Flat Steel Cantilever Gusset Fixing Plates Each End to BS EN 10025:2004
- All Edges De-Burred for Safety
- Stitch Welded Joints
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Fixings Hilti HSL-TZ CSK M8/20 Sleeve Anchors 5no. minimum With Knock On Armour Rings To Prevent Tamper

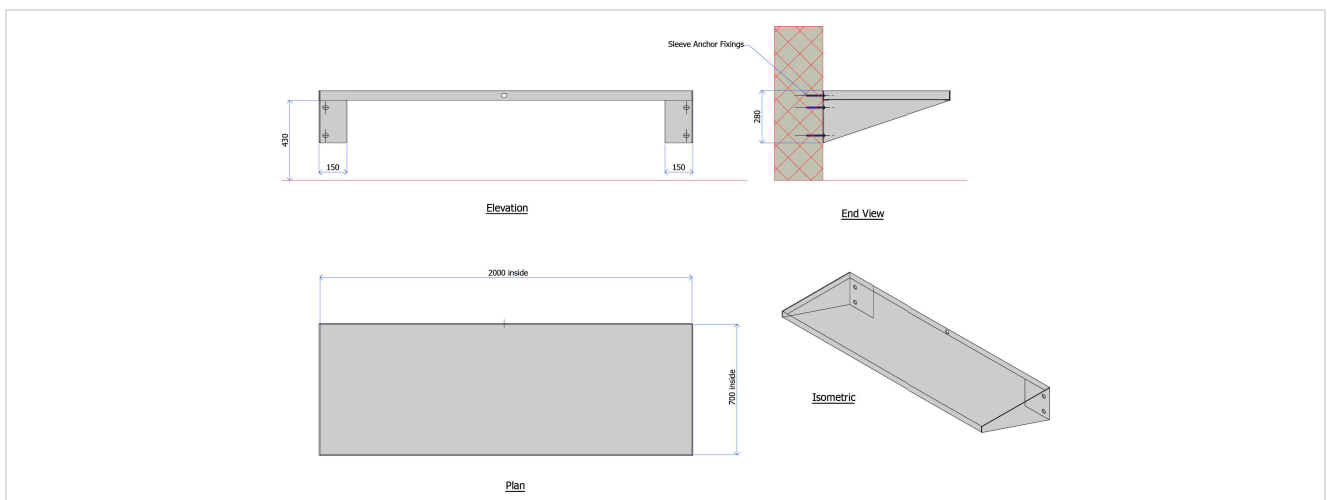
##### Standard Dimensions

- 700mm Wide x 2000mm Long Overall

#### Finish:

- Polyester Powder Coat Matt 30% Gloss Light Grey to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd robust anti-vandal bench designed to be bolted down to the floor. Intended primarily for use in police charge areas but can be used in other areas where secure anti-vandal seating is required.

#### Specification:

##### Steel Frame

- 40x40x3mm Hot Formed Rolled Hollow Section Steel Frame to BS EN 10025:2004
- 6mm thick Steel Flat Floor Fixing Feet to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Fully Welded and Ground Smooth Joints
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Fixings Hilti HSL-TZ CSK M8/20 CSK Sleeve Anchors 6no. minimum per Bench

##### Bench Seat

- 125x45mm Ash Battens Clamped Together and PVA Bonded with Continuous Ash Tongues
- 25x12mm Continuous Hardwood Tongues
- European Ash Hardwood Kiln Dried Moisture Content 10 -14% Density 710kg/m<sup>3</sup>
- Counterbored & Pelleted M10x40 Setscrew Fixings at Every Batten/Steelwork Interface
- 13mm Radius To All Exposed Edges
- Belt Sanded 240 Grit Finish

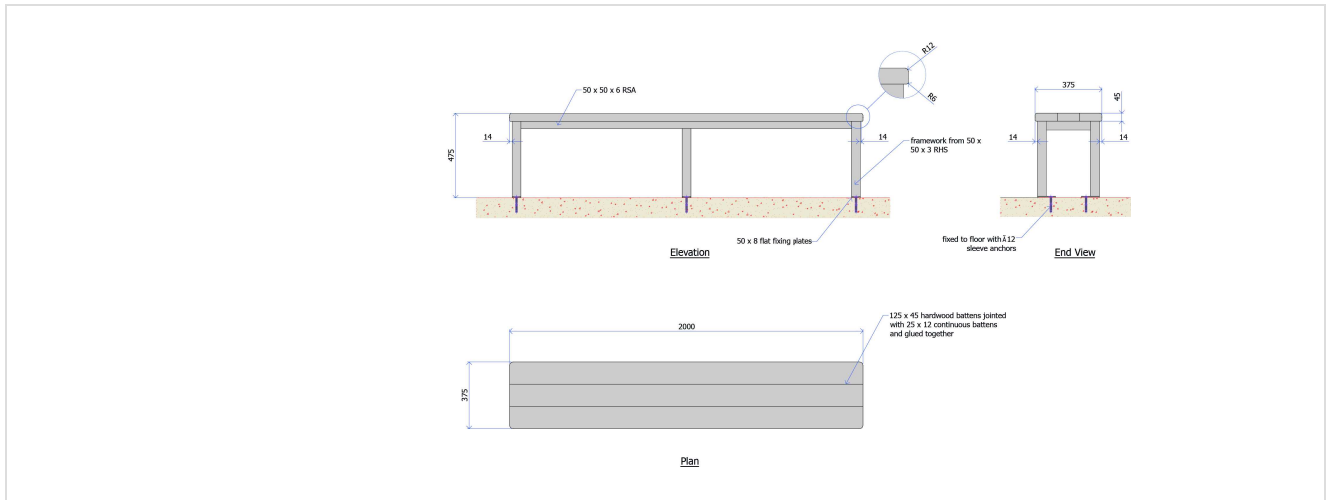
##### Standard Dimensions

- 375 mm Wide x 475mm High x 2000mm Long

#### Finish:

- Steel Frame Powder Coat Matt 30% Gloss Black to BS EN 12206-1:2004
- Hardwood Lacquer Two Pack Semi-Matt 20% Sheen

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd robust anti-vandal chair designed to be bolted down to the floor intended primarily for use in police interview rooms but can be used in other areas where secure anti-vandal seating is required.

#### Specification:

##### Steel Frame

- 40x40x3mm Hot Formed Rolled Hollow Section Steel Frame to BS EN 10025:2004
- 6mm thick Steel Flat Floor Fixing Feet to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Fully Welded and Ground Smooth Joints
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Fixings Hilti HSL-TZ CSK M8/20 CSK Sleeve Anchors 4no. minimum per Chair

##### Chair Seat & Backrest

- 125x45mm Ash Battens Clamped Together and PVA Bonded with Continuous Ash Tongues
- 25x12mm Continuous Hardwood Tongues
- European Ash Hardwood Kiln Dried Moisture Content 10 -14% Density 710kg/m<sup>3</sup>
- Counterbored & Pelleted M10x40 Setscrew Fixings at Every Batten/Steelwork Interface
- 13mm Radius To All Exposed Edges
- Belt Sanded 240 Grit Finish

##### Standard Dimensions

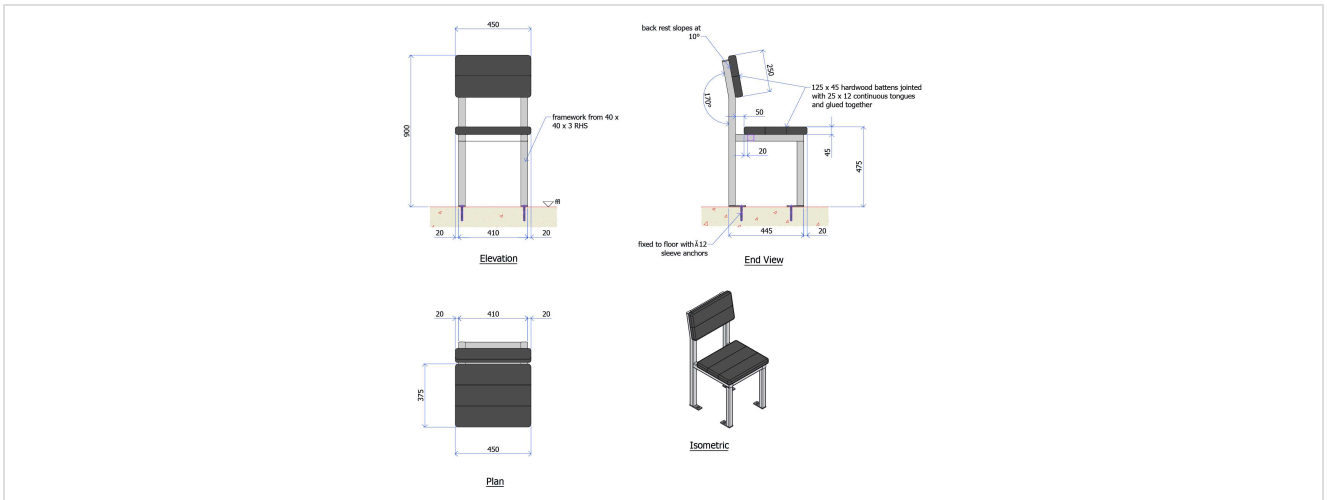
- Seat 450mm Wide x 375mm Long x 475mm High, Backrest 450mm Wide x 250mm High, 900mm Overall Height

#### Finish:

- Steel Frame Powder Coat Matt 30% Gloss Black to BS EN 12206-1:2004
- Hardwood Lacquer Two Pack Semi-Matt 20% Sheen



#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd robust anti-vandal stool designed to be bolted down to the floor. Intended for use in police interview rooms or closed visits rooms but can be used in other areas where secure anti-vandal seating is required.

#### Specification:

##### Steel Support Post

- 76mm diameter x 3mm Hot Rolled Hollow Section Steel Tube Support Post to BS EN 10025:2004
- 150mm diameter x 6mm thick Steel Flat Floor & Seat Fixing Plates to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Fully Continuously Welded Joints
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Fixings Hilti HSL-TZ CSK M8/20 CSK Sleeve Anchors 3no. minimum per Stool

##### Stool Seat

- 125x45mm Ash Battens Clamped Together and PVA Bonded with Continuous Ash Tongues
- 25x12mm Continuous Hardwood Tongues
- European Ash Hardwood Kiln Dried Moisture Content 10 -14% Density 710kg/m<sup>3</sup>
- Counterbored & Pelleted M10x40 Bolt Fixings 3no. per Seat
- 13mm Radius To All Exposed Edges
- Belt Sanded 240 Grit Finish

##### Standard Dimensions

- 360mm Diameter x 475mm High

#### Finish:

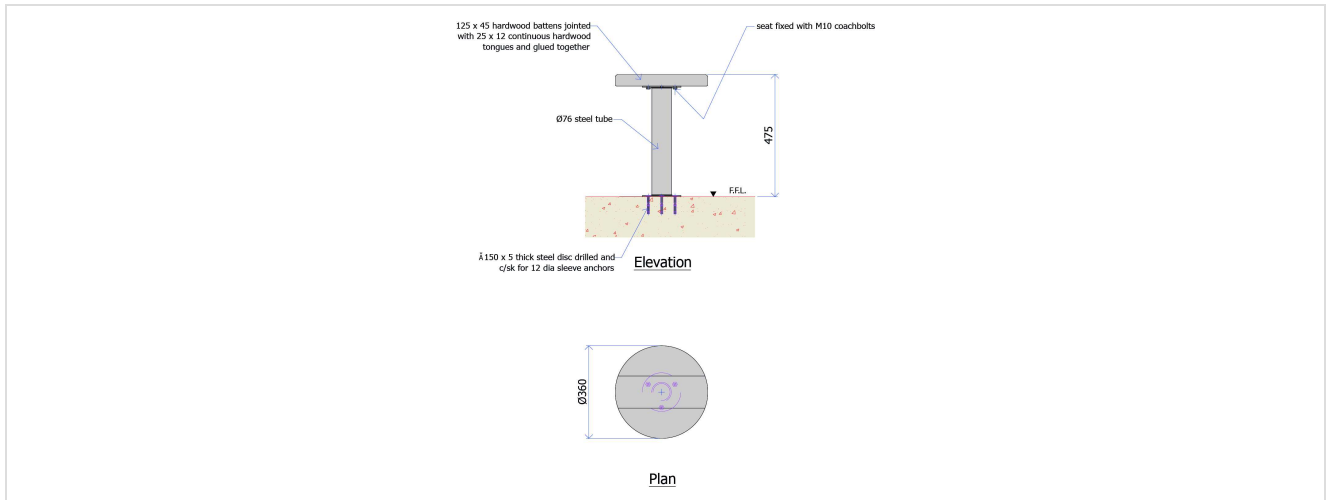
- Steel Support Post Powder Coat Matt 30% Gloss Black to BS EN 12206-1:2004
- Hardwood Lacquer Two Pack Semi-Matt 20% Sheen

# Custodial

## 9F008B

### Timber Seat Stool

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd Home Office specification interview screen for closed visits in police custody. Incorporating a secure laminated glass screen with a steel counter sound box for communication. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Court Standards & Design Guide
- Conforms to the standards & specifications required by the Prison Service

##### Glazing Frame

- 65x50mm & 45x45mm Rolled Steel Angle Frames to BS EN 10025:2004
- Fully Welded Joints & Ground Smooth
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- 25mm Decorative Ash Hardwood Trim Securely Fixed to Perimeter of Steel Frame on Visitors Side
- European Ash Hardwood Kiln Dried Moisture Content 10 -14% Density 710kg/m<sup>3</sup>
- Wall & Head Fixings 5mm x 50mm diameter CSK Screw & Plugs 13no. minimum per Window

##### Sound Box

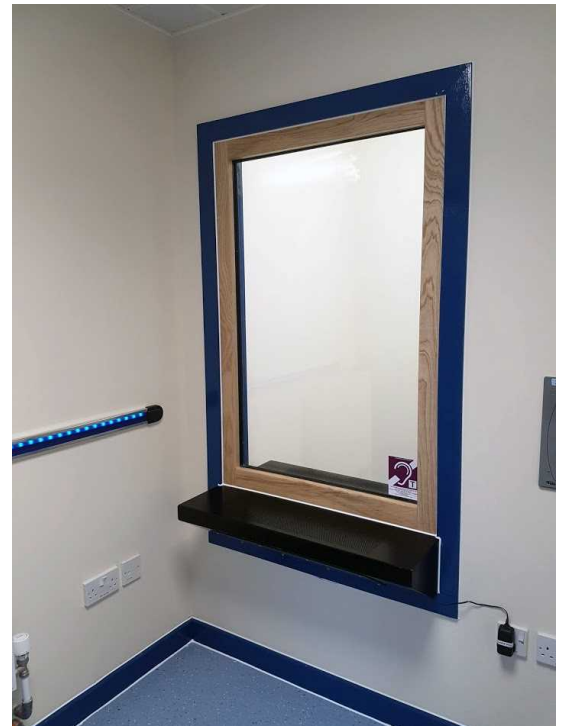
- 3mm thick Cold Rolled Pressed Steel Counter Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 50x50x6mm Rolled Steel Angle Internal Reinforcing Frame to BS EN 10025:2004
- 2.0mm diameter MAX Perforations @ 4mm Staggered Pitch On Both Sides Counter Top
- 6mm thick Flat Steel Fixing Plates to BS EN 10025:2004
- Fully Welded Joints & Ground Smooth
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Removable Access Plate One Side 3mm thick Steel Fixed by Security Head Screws
- Internal Flat Mesh Barrier Full Width of Sound Box Cavity to prevent the Passage of Contraband
- Fixings Hilti HSL-TZ CSK M8/20 CSK Sleeve Anchors 3no. minimum per Sound Box

##### Glazing

- 11.5mm thick Clear laminated Glass to BS EN 12600: 2002
- Glazing Gasket Cell Side 1.5mm Maximum and Double Sided Adhesive to Prevent Pick
- Glazing Gasket Outside 3mm Double Sided Adhesive Sponge Neoprene
- Glass Retaining steel Frame Secured with Security Head Screws

##### Standard Dimensions

- Structural Opening 900mm Wide x 1490mm High
- Overall Screen 888mm Wide x 1482mm High (1307mm

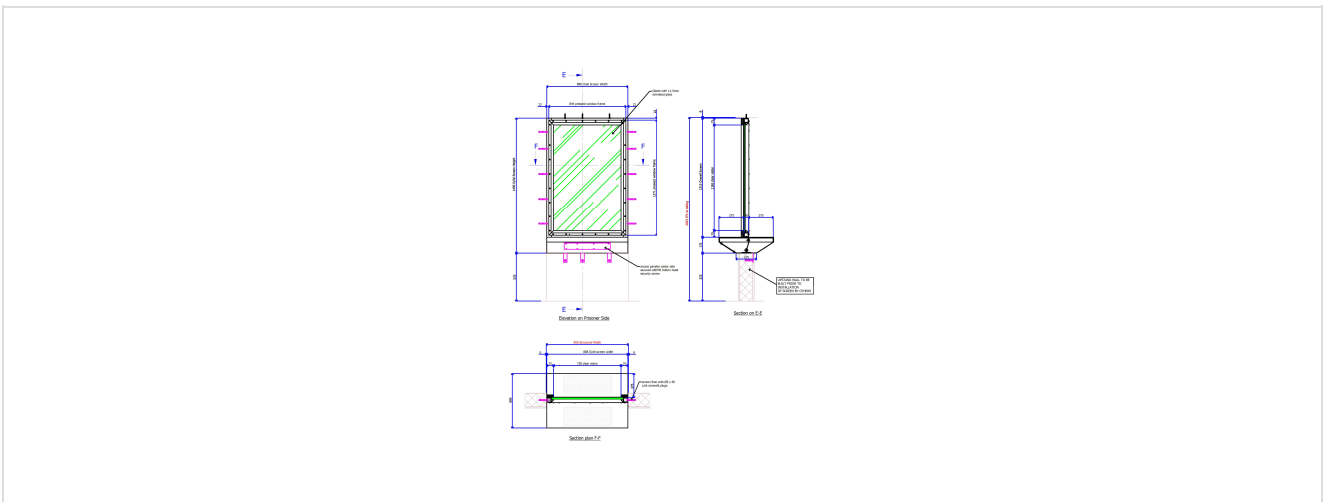


- Screen + 175mm Soundbox)
- Frame Clearances 6mm Jamb, 8mm Head, 0mm Bottom

#### Finish:

- Hardwood Trim Lacquer Two Pack Semi-Matt 20% Sheen
- Steel Frame & Counter Sound Box Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



## Application:

### Purpose

To securely restrain prisoners under escort.

### Overview

The basic wrist locking unit consists of a steel shackle sliding in a cast aluminium body similar to an open shackle padlock. When fully extended, the shackle can be made to hinge back to provide access for the wrist. Locking is achieved by rotating the magazine of a conventional AVA mechanism which drives ball bearings into recesses in the shackles. The 1K52 comprises of two such units attached through chain links and a swivel link to provide flexibility of movement.

### Principle of operation

Handcuff units are key retaining in the unlocked condition. In use, shackles are closed onto the wrist, the key turned (anti-clockwise) and removed. Release is the reverse of the above procedure.



## Specification:

### Standard features

- 9 or 10 slider AVA mechanism affording a very high number of differs and keys unique to this application viz:-  
The standard version has 9 sliders and a shorter than standard length bit; the special 'H' version has 10 sliders on a standard bit length, but with one thinned down wing – neither blank being available on the commercial market.  
NOTE: 'H' version is identified by step in the conical recess of the magazine cap.
- False notching and common internal profile on sliders to deter manipulative attack.
- Key retaining mechanism to ensure that handcuffs cannot be left unlocked with key removed
- Magazine retaining cap designed to be irremovable short of destroying the body.
- Deadlocking action and two-point locking on each shackle ensures that each product can withstand a minimum force of 5.0kN.
- Confusing key profile to deter attempts to sight-read the combination.
- 3 position shackles to accommodate a wide range of wrist sizes.
- Smooth finish and absence of sharp corners (particularly around wrist holes) to ensure that handcuffs do not cause injuries, even after long periods of restraint.
- Identification mark on key ('0' for 10 slider; '9' for 9 slider) which should face towards grubscrew in base when entering key to ensure correct alignment.  
NOTE: Key designed to enter one way round only.

### Additional features

Three sizes off loose inserts (available as optional extras) to further reduce the opening for very small wrists. Reductions in normal diameter as follows:-

- No. 1 - 19.0mm

- No. 2 - 14.5mm
- No.3 - 10.0mm

#### Finish:

##### Materials & finishes

- **Shackle (castings), shackle ends and chain links** - Mild steel chrome plated
- **Swivel link** - Stainless Steel
- **Handcuff body** - Investment cast aluminium; anodised and spray painted Black
- **Magazine caps** - Mild steel, nickel plated
- **Magazine, sliders and keys** - Brass
- **Locking balls** - Phosphor bronze
- **Locking plunger** - Mild steel, zinc plated and passivated
- **Loose insert** - Investment cast aluminium, spray painted Black

# National Infrastructure

ASSA ABLOY High Security & Safety Group (HSS) is the most innovative and trusted reality in access control solutions. In this section, you will be able to examine our high security locking systems (single point and multipoint locks as well as slide bar, panic escape claw and pedestrian gate locks for external environments) and related accessories, suitable for applications securing our key national infrastructure sites including power generation, water treatment, refineries and transport sectors. Securing high value assets and providing perimeter security. We will also present our range of personnel doors typically used for custodial, high security, administration and other interesting applications.



**High Security Locks**

**ASSA ABLOY**

# High Security Locks

## HS110 & HS120

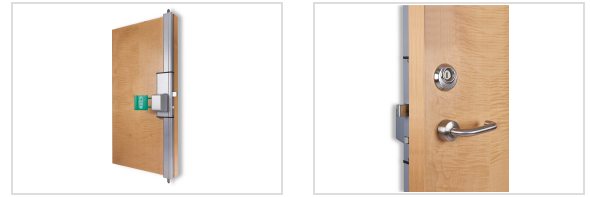
### Emergency/Panic Escape Locks

#### Application:

The **HS110** is designed to provide a surface mounted lock for emergency/panic exit doors that gives resistance to a greater physical attack threat to the outside of a door. It can provide **automatic deadlocking** with **automatic bolting**. You can choose either an **internal lever handle, paddle handle or push bar** to suit your operating requirements and to comply with the mandatory physical standards BS EN 179 and BS EN 1125. European standards allow the HS110 to be fitted to fire doors.

The **HS120** lock has the same specification as the HS110 but incorporates a special feature to hold the bolts in their retracted position under the control of a key cylinder. This function is activated by simply turning the key towards the door edge when the bolts have been withdrawn and this will keep the bolts retracted until you reinsert the key and turn it in the opposite rotation.

Current standards **do not** allow the HS120 to be fitted to fire doors.



#### Standards:

- BS EN 179: 1998 Emergency Exit Devices (lever and paddle handle versions)
- BS EN 1125: 1997 Panic Exit Devices (panic bar version)
- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles

#### Specification:

##### Features:

- Available as a single, 2, 3, 4, 5 point locking
- 25mm bolt engagement, bolts automatically thrown when door closes
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Key controlled hold back facility operated externally or internally as applicable (HS120 only)
- Suitable for timber and steel doors
- Low current consumption (access control version only)
- Aesthetic Rod Covers

##### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Access Control Function: 12v DC, 24v DC
- Tall door kits available
- External key entry overrides automatic deadlocking
- High security cylinder guards
- Service and Support on Installation and Maintenance

# High Security Locks

HS130 & HS140

## Specialized Function Locks

**ASSA ABLOY**

### Application:

The **HS130** lock is designed to allow **manual key deadlocking** operation from the outside, if required, with a number of internal locking options to cater for different needs.

As standard, this lock has an **automatic bolting** function so the bolts engage when the door is closed allowing you to lock the door from either side manually.

The **HS140** lock has the same **manual key deadlocking** function as the HS130 but is provided with a **manual bolting** operation requiring physical operation of the lever to throw the bolts into an engaged position.

### Specification:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- Manual deadlocking function
- 25mm bolt engagement
  - HS130 - bolts automatically
  - HS140 - manual bolt operation
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Suitable for timber and steel doors
- Aesthetic Rod Covers

#### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Tall door kits available
- External key entry overrides automatic deadlocking
- Mechanical deadlock override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guards
- Service and Support on Installation and Maintenance



### Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



# High Security Locks

HS150 & HS160

## Specialized Function Locks

**ASSA ABLOY**

### Application:

The **HS150** is designed to allow **automatic bolting** when the door is engaged within the door frame and **automatic deadlocking** when bolts are thrown. Once deadlocked the antitrust mechanism engages preventing the bolts from being forced back.

The **HS160** is designed to allow **manual bolting** which is thrown by the selected furniture and **automatic deadlocking** when bolts are thrown. Once deadlocked the antitrust mechanism engages preventing the bolts from being forced back.

### Specification:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- Automatic deadlocking function
- 25mm bolt engagement  
HS150 - bolts automatically  
HS160 - manual bolt operation
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Suitable for timber and steel doors
- Aesthetic Rod Covers

#### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Tall door kits available
- External key entry overrides automatic deadlocking
- Mechanical deadlock override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guards
- Service and Support on Installation and Maintenance



### Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



# High Security Locks

HS170

Lock for use with Access Control Systems

**ASSA ABLOY**

## Application:

The **HS170** lock has been incorporated into the range to provide a lock for use with specialised access control requirements and is available in a number of configurations to meet most applications.

As standard the lock has an **automatic deadlocking** function with **automatic bolt throw**. The solenoid actuator is available with 12 or 24 volt DC operation and can be energised to lock (fail-safe if power supply is cut) or powered to unlock (fail-secure).

## Specification:

### Features:

- Available as a single, 2, 3, 4, 5 point locking
- Automatic deadlocking function
- 25mm bolt engagement, bolts automatically thrown when door closes
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Access control locking
- Suitable for timber and steel doors
- Low current consumption (access control version only)
- Aesthetic Rod Covers

### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- 12 or 24v DC solenoid operation
- Available in fail-safe or fail-secure modes
- Tall door kits available
- External key entry overrides automatic deadlocking/access control
- Mechanical deadlock or access control override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guards
- Key controlled overlock to disable the access control
- Service and Support on Installation and Maintenance



## Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



# High Security Locks

HS180

## Specialized Function Lock

**ASSA ABLOY**

### Application:

The **HS180** lock incorporates several functions within the one lock case. The lock can be operated from inside with either a push bar, paddle handle or lever handle with key override from outside. In addition to this you have the facility to either lock the bolts in their retracted position or, should you wish to do so, deadlock the bolts in their thrown position. The lock also features an override function from inside however please note when the double deadlock facility is engaged the override function is disabled. When either the double deadlocking or the hold-back features are engaged it is not possible for the solenoid unlocking device to override any of these functions.

**The user should be aware that this product does not conform to the mandatory standards BS EN 179 and 1125. We would strongly recommend that you consult with your local fire officer before installing this type of locking device.**



### Specification:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- 25mm bolt engagement, bolts automatically thrown when door closes
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Key controlled bolt holdback and deadlock facility
- External key entry facility
- High security cylinder guard
- Suitable for timber and steel doors
- Low current consumption (access control version only)
- Aesthetic Rod Covers

#### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Access Control Function: 12v DC, 24v DC
- Choice of lever handle, paddle handle or push bar internal operator
- Tall door kits available
- Service and Support on Installation and Maintenance

### Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



## Kaye

## Dual Solenoid Surface Mount High Security Multipoint Locking System

### Application:

The Dual Solenoid High security locking system has an access control module with full monitoring of bolts thrown and deadlock in place. Lever handles are on both sides and an optional external key facility to unlock the system when no power is available. Internal push pad or panic bar can be applied as an option but will not comply to BS EN Standards.

A second solenoid locking device is a fail-safe to over-lock the unit in a similar operation to the mechanical over-lock and holdback functions. Entry and exit are via access control signal which cuts power to the over-lock solenoid and powers up the solenoid to allow withdrawal of bolts. On closing the bolts auto throw to lock the system.

If the access control systems power fails entry can be gained by a key and handle from outside. On closing the door, the system auto-locks to provide security from outside. From inside the system becomes an escape system allowing the handle to withdraw the bolts and exit to take place.



### Finish:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- Automatic deadlocking function
- 25mm bolt engagement, bolts automatically
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Access control locking
- Suitable for timber and steel doors
- Low current consumption (access control version only)
- Aesthetic Rod Covers

#### Options:

- Mechanical Over-lock to secure the system out of hours, this would require a Key/Thumbturn operation to engage
- Bolt lock-back to provide a free swinging door
- Service and Support on Installation and Maintenance

### Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



# High Security Locks

HS210 & HS220

Emergency/Panic Escape Locks

# ASSA ABLOY

## Application:

The **HS210** is designed to provide a mortice mounted lock for emergency/panic exit doors that gives resistance to a greater physical attack threat to the outside of a door. It can provide **automatic deadlocking** with **automatic bolting**. You can choose either an internal lever handle, paddle handle or push bar to suit your operating requirements and to comply with the mandatory physical standards **BS EN 179** and **BS EN 1125**. European standards allow the HS210 to be fitted to fire doors.

The **HS220** lock has the same specification as the HS210 but incorporates a special feature to hold the bolts in their retracted position under the control of a key cylinder. This function is activated by simply turning the key towards the door edge when the bolts have been withdrawn and this will keep the bolts retracted until you reinsert the key and turn it in the opposite rotation.

Current standards **do not** allow the HS220 to be fitted to fire doors.



## Specification:

### Features:

- Available as a single, 2, 3, 4, 5 point locking
- 25mm bolt engagement, bolts automatically thrown when door closes
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Key controlled hold back facility operated externally or internally as applicable (HS220 only)
- Suitable for timber and steel doors
- Stainless steel forend and bolt guide plates
- Low current consumption (access control version only)

### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Access Control Function: 12v DC, 24v DC
- Tall door kits available
- External key entry overrides automatic deadlocking
- High security cylinder guards
- Service and Support on Installation and Maintenance

## Standards:

- BS EN 179: 2008 Emergency Exit Devices (lever and paddle handle versions)
- BS EN 1125: 2008 Panic Exit Devices (push bar version)
- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles





# High Security Locks

HS230 & HS240

## Specialized Function Locks

# ASSA ABLOY

### Application:

The **HS230** lock is designed to allow **manual key deadlocking** operation from the outside, if required, with a number of internal locking options to cater for different needs.

As standard, this lock has an **automatic bolting function** so that the bolts engage when the door is closed allowing you to lock the door from either side manually.

The **HS240** lock has the same **manual key deadlocking** function as the HS230 but is provided with a **manual bolting operation** requiring physical operation of the lever to throw the bolt(s) into an engaged position.

### Specification:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- Manual deadlocking function
- 25mm bolt engagement
  - HS230 - bolts automatically
  - HS240 - manual bolt operation
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Suitable for timber and steel doors
- Stainless steel forend and bolt guide plates

#### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Tall door kits available
- External key entry overrides automatic deadlocking
- Mechanical deadlock override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guards
- Service and Support on Installation and Maintenance



### Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



# High Security Locks

HS250 & HS260

## Specialized Function Locks

**ASSA ABLOY**

### Application:

The **HS250** is designed to allow **automatic bolting** when the door is engaged within the door frame and **automatic deadlocking** when bolts are thrown. Once deadlocked the antitrust mechanism engages preventing the bolts from being forced back.

The **HS260** is designed to allow **manual bolting** which is thrown by the selected furniture and **automatic deadlocking** when bolts are thrown. Once deadlocked the antitrust mechanism engages preventing the bolts from being forced back.

### Specification:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- Automatic deadlocking function
- 25mm bolt engagement
  - HS250 - bolts automatically
  - HS260 - manual bolt operation
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Stainless steel forend and bolt guide plates
- Suitable for timber and steel doors

#### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Tall door kits available
- External key entry overrides automatic deadlocking
- Mechanical deadlock override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guards
- Service and Support on Installation and Maintenance



### Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



# High Security Locks

HS270

Lock for use with Access Control Systems

**ASSA ABLOY**

## Application:

The **HS270** lock is designed for use with **specialised access control** requirements and is available in a number of configurations to meet most applications. As standard the lock has an **automatic deadlocking function** with **automatic bolt throw**. The solenoid actuator is available with 12 or 24 volt DC operation and can be energised to lock (fail-safe if power supply is cut) or powered to unlock (fail-secure).

## Specification:

### Features:

- Available as a single, 2, 3, 4, 5 point locking
- Automatic deadlocking function
- 25mm bolt engagement, bolts automatically thrown when door closes
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Access control locking
- Stainless steel forend and bolt guide plates
- Low current consumption (access control version only)
- Suitable for timber and steel doors

### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- 12, 24 or SOv DC solenoid operation
- Available in fail-safe or fail-secure modes
- Tall door kits available
- External key entry overrides automatic deadlocking/access control
- Mechanical deadlock or access control override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guards
- Service and Support on Installation and Maintenance



## Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



# High Security Locks

HS280

## Specialized Function Lock

**ASSA ABLOY**

### Application:

The **HS280** lock incorporates several functions within the one lock case. The lock can be operated from inside with either a push bar, paddle handle or lever handle with key override from outside. There is also a facility to lock the bolts when retracted or deadlock the bolts in their thrown position. The override function is disabled when the double deadlock is engaged. It is not possible for the solenoid unlocking device to override the double deadlocking or hold-back features if they are engaged.

**This product does not conform to the mandatory standards BS EN 179 and 1125. You should consult your local fire officer before installing this type of locking device.**

### Specification:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- 25mm bolt engagement, bolts automatically thrown when door closes
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Key controlled bolt holdback and deadlock facility
- External key entry facility
- High security cylinder guard
- Stainless steel forend and bolt guide plates
- Suitable for timber and steel doors
- Low current consumption (access control version only)

#### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Access Control Function: 12v DC, 24v DC
- Choice of lever handle, paddle handle or push bar internal operator
- Tall door kits available
- Service and Support on Installation and Maintenance



### Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



### Application:

Developed in co-operation with UK Government departments, for use in external environments, this Access Control lock has unique functionality and control features coupled with a robust and reliable heavy duty deadlocking mechanism ideal for high security applications.

This mortice lock can be installed in any security door (steel or wood). The lock case accepts all standard Euro-profile cylinders and can be supplied with a high security cylinder guard to protect the cylinder from external attack.

Connection to in-house access control systems is quick and easy as the lock is fitted with a standard CAT 5 socket for power and signal supply.

Key blocking via an access control system allows for remote/central control operation to prevent mechanical key override of the system in the event of the key being compromised, the area requiring to be locked down or for any other reason. This would also prevent egress where a thumbturn is fitted to the inside of the door for exit purposes.



### Specification:

#### Features:

- Heavy duty lock case machined from solid
- Case hardened steel bolt and ram
- Bolt held back when retracted
- Lock automatically deadlocks on door closure
- Stainless steel strike plate and lock forend
- Cable connector CAT 5 point for easy access control interface
- Easy to install and maintain
- Adjustable keep
- Weather and corrosion resistant

#### Functions:

##### Mechanical

- Handle operation withdraws deadbolt
- Deadbolt remains retracted with door in open position
- Deadbolt auto throws and locks on closing door
- Key/thumbturn operation to unlock

##### Electrical

- Access control signal to unlock
- Remote blocking of mechanical key/thumbturn operation
- Monitoring
  - Bolt throw (bolt position)
  - Deadlock (deadlock activation)
  - Key used
  - Key blocked (status)

#### Options:

# High Security Locks

L8789

## High Security External Access Control Lock

**ASSA ABLOY**

- Service and Support on Installation and Maintenance

# High Security Locks

L8730 / L8731

## High Security Panic Escape Claw Lock

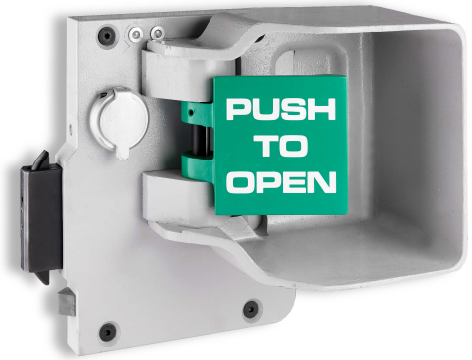
**ASSA ABLOY**

### Application:

The Kaye High Security (Claw) Gate Lock is a heavy duty, weather resistant lock fitted with a push-pad operation. The lock, which throws the bolt and automatically deadlocks on closure, is suitable for external perimeter gates and high security applications.

It has a robust and solid construction designed to resist moisture. The lock is supplied with a 10mm or 20mm solid steel back-plate which is drilled and tapped ready to accept the lock fixing screws.

The emergency push pad is protected by a purpose-built metal shroud as an obstacle to mitigate manipulation from the outside. The product has undergone an extensive text program inside of the door for exit purposes.



### Specification:

#### Features:

- Push-pad (shielded) action to withdraw bolt
- Close gate to automatically deadlock
- Powerful claw engages with strike on locking
- Adjustable striking plate
- High visibility LED indicators
  - Status Red – unsecured: gate open / bolt not thrown
  - Status White – secured / bolt thrown
- Optional 'lock down' facility
- 'Lock down' status signal
- Easy to install and maintain

#### Options:

- Key Position Monitoring
- Service and Support on Installation and Maintenance

### Standards:

- Independently attack audited
- 100,000 function slams in accordance with EN12209:2003
- 10,000 isolation key cycles in accordance with EN12209:2003
- Various other EN12209:2003 tests carried out - details available on request



# High Security Locks

L8715 / L8717

## High Security Slide Bar Lock

# ASSA ABLOY

### Application:

The Kaye High Security Slide Bar Gate Lock is a heavy duty, weather resistant lock fitted with a slide bar operation that automatically deadlocks on closure.

It was developed to secure perimeter fencing at high security installations which need to restrict and control access such as chemical and power plants, gas terminals and oil refineries. The Kaye slide Bar Gate lock is fitted in a 6mm thick steel casing suitable for a variety of gate standards.

Subjected to an extensive test program, including 100,000 key and electronic operations, the lock is easily interfaced with existing access control systems for remote operation and includes a five-second automatic reset as standard.



### Specification:

#### Features:

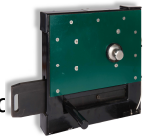
- Slide for automatic 'lock down' on closure
- Robust solid steel bar with padlock slot
- Handle shears under undue force
- Free issue anti-drill cylinder profile options
- 'Lock down' status signal
- 'Last person' out alert
- Local plug connection interface
- Easy to install and maintain

#### Options:

- Mechanical option available
- Lock available direct from Pickersgill-Kaye
- Cassette, handles and housing available from Crime and Fire Defence Ltd
- Key Position Monitoring
- Service and Support on Installation and Maintenance

### Standards:

- Independently attack audited
- 100,000 operations by key in accordance with EN12209:2003
- 100,000 operations by electronic activation in accordance with EN12209:2003
- 96 hour salt spray corrosion test at 100% humidity







# Ancillary Items

For HS100 & HS200 Series Mounted Locks

# ASSA ABLOY



# Ancillary Items

HS9080

## Slide Bolt

ASSA ABLOY

### Application:

To secure the passive leaf of a double door we have designed a slide bolt that will provide strength and stability against physical attack but visually match the aluminium cover of the main lock module to give a more pleasing appearance. The bolts are available as separate units operated at the top or bottom of the door. The bolts are simply pushed up or down to secure the door using the specially designed shaped handles. When thrown or retracted the bolts are held in position by a positive detent mechanism.

### Specification:

#### Features:

- Architecturally pleasing security device to match locking products
- Hardened Steel Bolt
- 32mm Bolt Engagement
- Bolt Diameter: 16mm

The slide bolt has been successfully included in a door system fire tested to BS 476 Pt 22 and further assessed to cover products related to approved Document B.

#### Options:

- Standard
- Extended
- Lockable Standard
- Lockable Extended
- Monitored Standard
- Monitored Extended



# Ancillary Items

L8891-928-B

Cranked Handle

# ASSA ABLOY



# Ancillary Items

L8891-921-B

**Straight Handle**

# ASSA ABLOY



# Ancillary Items

L9025-901-S

Thumbturn Handle

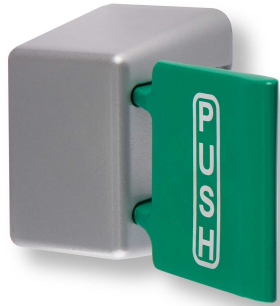
# ASSA ABLOY



# Ancillary Items

LH-L9051-901-S & LH-L9050-901-S  
Push Pad

# ASSA ABLOY

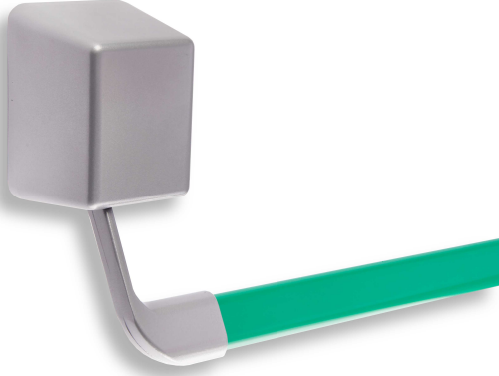


# Ancillary Items

LH-L9000-901-S & LH-L9001-901-S

Push Bar

# ASSA ABLOY





# Ancillary Items

L9000-060-F

Anti-Phishing Shroud

# ASSA ABLOY



# Ancillary Items

L9028-901-S

Ancillary Green Dome

# ASSA ABLOY



# Ancillary Items

L8655-705-A

Link Rod Spring Kit

**ASSA ABLOY**



# Ancillary Items

L9011-902

Top Keep with Cover

# ASSA ABLOY



# Ancillary Items

L9011-913

Top Keep with Cover (Inward Opening)

**ASSA ABLOY**



# Ancillary Items

L9011-006

Top Keep (Outward Opening)

**ASSA ABLOY**



# Ancillary Items

L9010-908

Floor Keep (Sprung)

# ASSA ABLOY



# Ancillary Items

L8655-038

Floor Keep Plate

# ASSA ABLOY





# Ancillary Items

L8655-099 & L8655-083  
Frame Keep (Rebate)

# ASSA ABLOY



# Ancillary Items

L8655-181 & L8655-081  
Centre Keep (Rebate)

# ASSA ABLOY



# Ancillary Items

L9011-901

Centre Keep (1st and 3st lock)

# ASSA ABLOY



# Ancillary Items

L9011-005

Centre Keep (Inward Opening)

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# Ancillary Items

L9011-008

Centre Keep (Outward Opening)

**ASSA ABLOY**



# Ancillary Items

L9012-901

Outward Opening Adjustable Base Plate

**ASSA ABLOY**



# Ancillary Items

L9012-902 & L9012-903

Adjustable Strike Plate

# ASSA ABLOY



# Ancillary Items

L9010-011 & L9010-012

Mortice Adjustable Strike Plate

**ASSA ABLOY**





# Ancillary Items

L9010-010

Mortice Adjustable Strike Base Plate

**ASSA ABLOY**





#### Application:

A Chubb Locks Custodial Services Ltd solid timber door & frame personnel door with optional 60 mins fire resistance integrity typically used for staff offices, toilets etc. within custody. The door incorporates a Chubb 3J60 5 lever mortice deadlocking latch & knob furniture both sides and 4no. butt hinges. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

##### Door Frame

- Monolithic Hardwood Frame Section 3 Sides 125x75x50mm 25mm Rebate
- Sapele Hardwood Kiln Dried Moisture Content 10 -14% Density 640kg/m<sup>3</sup>
- Mortice & Tenon Joints
- Counterbored & Pelleted Fixings
- Frame Fixings 12mm dia x 100mm Sleeve Anchors 8no. minimum per frame

##### Door Leaf

- FD60 Certified 54mm thick Solid Timber Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles Average Density 460 - 500kg/m<sup>3</sup>
- Typically 9mm – 12mm Hardwood Lipping Bonded All 4 Edges Minimum Density 640kg/m<sup>3</sup> 15% MC
- Chubb 3J60 5 Lever Mortice Deadlocking latch with knob furniture both sides
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 4no. per Leaf

##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High
- Door Leaf 794mm Wide x 2030mm High Excluding Hinge(s) x 54mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut

#### Finish:

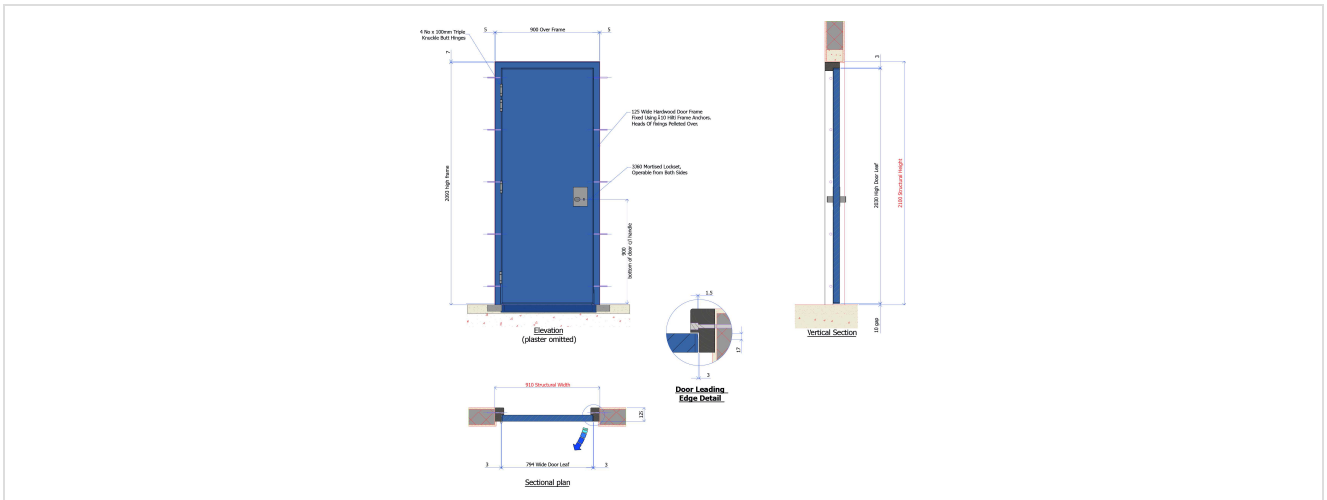
- Water Based Two Coat Prime Paint

# Personnel doors

## 9D027A

### Timber Personnel Door

## Technical Design:



### Application:

A Chubb Locks Custodial Services Ltd solid timber door & frame personnel door with optional 60 mins fire resistance integrity typically used for staff offices, toilets etc. within custody. The door incorporates a laminated glass vision panel, Chubb 3J60 5 lever mortice deadlocking latch & knob furniture both sides and 4no. butt hinges. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

#### Door Frame

- Monolithic Hardwood Frame Section 3 Sides 125x75x50mm 25mm Rebate
- Sapele Hardwood Kiln Dried Moisture Content 10 -14% Density 640kg/m<sup>3</sup>
- Mortice & Tenon Joints
- Counterbored & Pelleted Fixings
- Frame Fixings 12mm dia x 100mm Sleeve Anchors 8no. minimum per frame

#### Door Leaf

- FD60 Certified 54mm thick Solid Timber Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles Average Density 460 - 500kg/m<sup>3</sup>
- Typically 9mm – 12mm Hardwood Lipping Bonded All 4 Edges Minimum Density 640kg/m<sup>3</sup> 15% MC
- Chubb 3J60 5 Lever Mortice Deadlocking latch with knob furniture both sides
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 4no. per Leaf
- Laminated Glass vision Panel with Hardwood Beading

#### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High
- Door Leaf 794mm Wide x 2030mm High Excluding Hinge(s) x 54mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut

### Finish:

- Water Based Two Coat Prime Paint

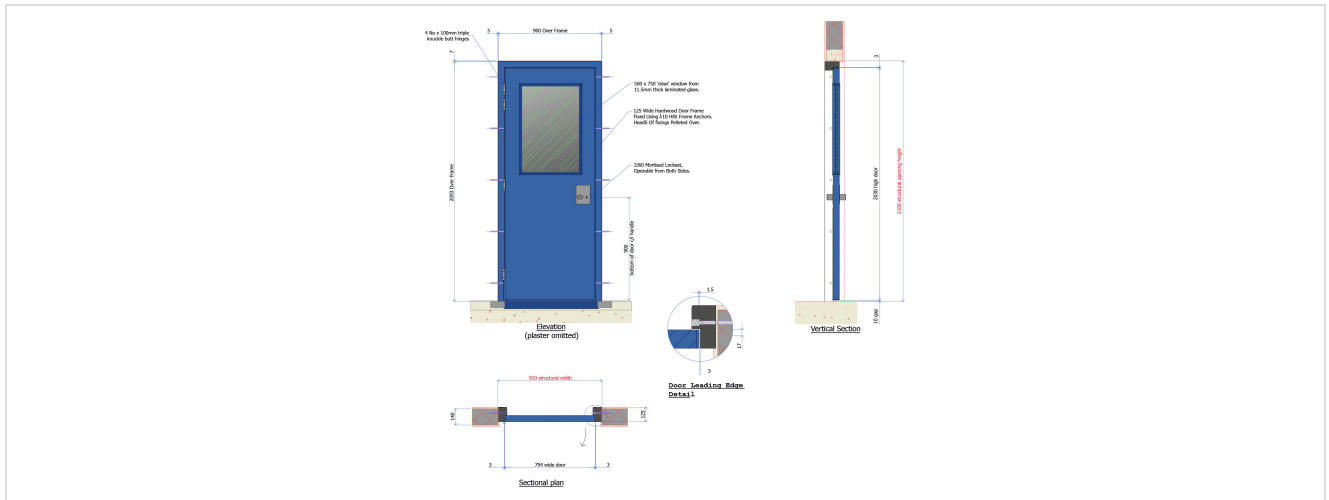
# Personnel doors

9D027B

## Half Glazed Timber Personnel Door

# ASSA ABLOY

### Technical Design:



# Secure Healthcare

ASSA ABLOY High Security & Safety Group (HSS) is synonymous with excellence when it comes to high security solutions suitable for environment where there are patients who require treatment and care in total safety conditions. In this section, you will be able to examine our extensive product range, developed in close consultation with industry professionals and individually tailored to respond to the challenges faced by secure healthcare facilities, the world over, every day.

## Application:

### Purpose

To provide secure locking of swinging doors or gates that can be unlocked from a remote location using third party security management systems (SMS) or by conventional key control. Designed to enable key and electric operation from one (3F11) or both (3F12) sides of the door.

### Overview

The 3F11/3F12 are mortice locks of robust construction based on the Chubb Locks Custodial Services large mortice footprint. The locks are designed to deadlock automatically and to be unlocked electrically with bolt withdrawal by a motorised mechanism.



## Specification:

### Unlocking

- **Electric Operation** – Remote switch activates the locking solenoid and the locking dead bolt is withdrawn by the motor. When fully withdrawn the locking deadbolt is latched in position ready for the relocking operation.
- **Mechanical Operation** – Locking mechanism is operated by a mechanical key that lifts the locking solenoid and withdraws the locking dead bolt. When fully withdrawn the locking dead bolt is latched in position ready for the relocking operation.

### Locking

- The lock automatically deadlocks when the door/gate is closed.

### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- Heavy duty gear and motor designed to operate under high load.
- Steel main bolt with tungsten carbide anti cut rollers.
- Solenoid electric locking latch.
- 5-detainer key override mechanism.
- Lock provides status monitoring of critical functions.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3F11 / 3F12 group of locks only.

### Performance/Testing/Criteria

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Motor/gearbox tested to a minimum of 1,000,000 cycles.
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.
- End load 8.0 kN
- Side Load 13.5 kN

### Additional Items

- Outer steel case (Gatebox) for use when fitted to a steel door



### Motorised Slam Action Lock

- Locking plate (Keep)
- Door cable (to connect the lock to door header / junction box terminations)
- Keys – silica brass (ordered separately to the lock)

#### Dimensions & Weights (Approx)

Case Height	207mm
Case Length	238mm
Case Thickness	29mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only approx)	10.5kg

Dimensioned customer drawings are available upon request.

#### Finish:

- Lock case - carbon steel electro-plated.
- Main bolts - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Escutcheons – Silica brass.
- Detainers and springs – Brass / phosphor Bronze.

### Application:

#### Purpose

To provide secure locking of swinging cell/bedroom doors with a 'privacy' locking facility under operation by the occupant, from within the accommodation unit only. Locks detailed in this specification also include an integral Door In Frame Sensor (DIF) to indicate the door status when used in conjunction with a suitable DIF magnet.

#### Overview

The 3F65P is a mortice lock of robust construction based on the CLCS standard large mortice lock footprint with a main bolt that can be locked in the fully thrown or fully withdrawn position. Locking is achieved by a completely separate, interchangeable inner locking unit, operable from the outside only, the vertically sliding bolt of which, engages a recess in the main bolt.

A privacy facility is also provided allowing a secondary privacy bolt to be locked or unlocked by anti-ligature furniture from the inside of the accommodation. The privacy bolt can be overridden by a key holder by extending and then withdrawing the main bolt. A clutch mechanism fitted to the internal furniture ensures that staff members always remain in control of the privacy bolt.



### Specification:

#### Principal of Operation

- **Locking / Unlocking of the Main Bolt –**  
Locking/unlocking is achieved by a partial turn of the key and handle operation to throw or withdraw the bolt. On withdrawing the key the main bolt will be automatically left locked in the position chosen (i.e. fully thrown or unlocked). Withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown.
- **Locking / Unlocking of the Privacy Bolt –** The occupant's 'Privacy' bolt can be locked / unlocked from within the accommodation unit via the anti-ligature furniture fitted to the inside of the door. However, the door cannot be opened from the inside if the main bolt is extended and secured in frame. In addition withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown. A cover plate can also be fitted to the external side of the door to provide emergency access to the privacy mechanism.

#### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- 32mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers.
- Independent 7-lever locking mechanism (ILU).
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Status monitoring outputs of (1) Door in Frame, (2) Main Bolt Extended (3) ILU Status
- Privacy locking / unlocking operable from within the

### Morticed Mechanical Privacy Lock - Monitored

accommodation via door mounted furniture or via override by the main bolt or by removing the external cover plate.

#### Performance/Testing/Standards

- Mechanical locking mechanism tested to a minimum of 100,000 operations
- Main bolt handle mechanism tested to a minimum of 300,000 bolt operations
- Saw attack on the main bolt 12 hours
- End load 13.5 kN
- Side Load 25 kN

#### Additional Items

- Handle and escutcheon kits (not supplied with the lock). Kits can be supplied to suit various functional requirements, door thicknesses and aesthetic requirements.
- Frame mounted magnet assembly (to operate with the integral DIF sensor)
- Locking plate with integral magnet assembly.
- Gate Box
- Door cable
- Reinforcing plates for use on wooden doors
- Privacy Cylinder for corridor side of door

#### Dimensions & Weights

Case Height	207mm
Case Length	226mm
Case Thickness	29mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	11kg

#### Finish:

- Lock case – carbon steel electro-plated and powder coated exterior.
- Main bolt – carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel.
- Levers and springs – Brass / phosphor Bronze.

## Application:

### Purpose

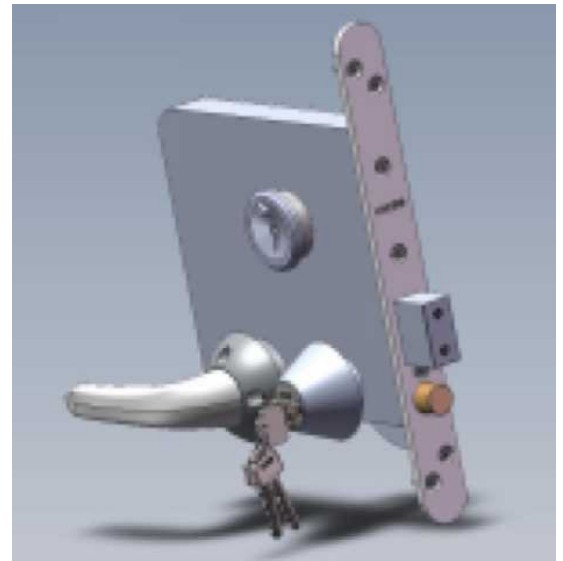
To provide secure locking of swinging cell/bedroom doors with a 'privacy' locking facility under operation by the occupant.

### Overview

The 3F65P is a mortice lock of robust construction based on the CLCS standard large mortice lock footprint with a main bolt that can be locked in the fully thrown or fully withdrawn position. Locking is achieved by a completely separate, interchangeable inner locking unit, operable from the outside only, the vertically sliding bolt of which, engages a recess in the main bolt.

A Privacy Key Facility is also provided allowing a secondary privacy bolt to be locked or unlocked by a key operated rim cylinder lock on the outside and anti-ligature furniture on the inside. The Privacy bolt can be overridden by extending and then withdrawing the main bolt and a clutch mechanism ensures that staff remain in control. The cylinder is also master keyed to provide staff control of the privacy mechanism.

- **Locking unit** – The locking unit is a self-contained 7-lever lock, independently mounted on pillars, and can be quickly removed and replaced by another such complete unit, when a change of combination is necessary. The bolt of this unit shoots downwards into a cutaway formation on the main bolt and retains it in the withdrawn or fully thrown position.
- **Main Bolt** – Locking/unlocking is achieved by a partial of the key and handle operation to throw or withdraw the bolt. On withdrawing the key the main bolt will be automatically left locked in the position chosen (i.e. fully thrown or unlocked). Withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown.
- **Under Occupant's Key** – The occupant's 'Privacy' bolt can be locked/unlocked from outside by a keyed cylinder lock or from inside by a handle or knob.



## Standards:

- Mechanical locking mechanism tested to a minimum of 100,000 operations
- Handle mechanism tested to a minimum of 300,000 bolt operations
- Privacy cylinder tested to a minimum of 100,000 operations
- Saw attack on the main bolt 12 hours
- End load 13.5 kN
- Side Load 25 kN

## Specification:

### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 32mm throw.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Privacy locking via pin tumbler cylinder

### Additional Features

- External lever handle or dial knob options for staff operation.

### Morticed Mechanical Privacy Lock

#### Additional Items

- Outer steel case (Gatebox) when fitted to a steel door
- Locking plate (Keep)

#### Dimensions & Weights

Case Height	207mm
Case Length	226mm
Case Thickness	29mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	11kg

#### Finish:

- Lock case – carbon steel electro-plated and powder coated exterior.
- Main bolt – carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

#### Application:

##### Purpose

To provide secure locking of swinging cell doors, under conventional key control where automatic deadlocking is a requirement.

##### Overview

The 4L55 and 4L56 are surface mounted locks of robust construction based on the Chubb Lock Custodial Services standard cell lock footprint. The main bolt is automatically extended providing a throw of 32mm and deadlocked on closure of the door.

The 4L55 is designed to be mounted flush with the door skin whereas the 4L56 is designed to be mounted on the door skin itself.

**Note:** An alternative fixing method can be used to enable mounting of the 4L56 variant flush with the door skin.

Secure locking is achieved as follows:

- Unlocking is achieved by a partial turn of the key which lifts the internal blocking mechanism enabling the withdrawal of the main bolt by the handle. The bolt is then retained automatically when fully retracted and door is out of frame.
- Locking is achieved automatically; on closure of the door the brass snib bolt is depressed on contact with the strike plate mounted to the frame this then releases the main bolt. Deadlocking occurs when the main bolt is fully extended allowing the internal blocking mechanism to engage.
- The lock has an external visual indicator mechanism, which enables staff to verify the status of the lock.



#### Specification:

##### Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers and 32mm throw.
- Brass quick acting stud release mechanism.
- External visual locking status indication.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- 5 bolt secure fixing.
- Integral baffle arrangements to resist interference via the keyhole.
- Escutcheon designed to give positive key alignment.

##### Performance

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Handle mechanism tested to a minimum of 300,000 bolt operations.
- Stud release mechanism tested to a minimum of 300,000 operations
- Saw attack 12 hours
- End load 20 kN
- Side Load 25 kN

### Mechanical Slam Action Cell Lock

#### Additional Features

- Range of Anti-Ligature or 'T' handle furniture options available.
- Range of fixings including backplates, stud fixings, locking plate and keeps.
- Available in alternative paint / furniture finishes on request.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.
- Interchangeable mechanical inner locking unit to enable re-coding.
- Can be configured to differ or to pass.

#### Total Range

- The lock is available in left or right hand variants for opening in or opening out doors and can be fitted to steel or wooden doors. A range of backplate stud lengths is available to suit door thicknesses from 25 to 70mm.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Case Height	286mm
Case Length	267mm
Case Thickness	30mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only) 4L55	10.5kg
Weight (lock only) 4L56	12.0kg

#### Finish:

- Lock case - carbon steel electro-plated and powder coated exterior.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys - Hardened Steel
- Levers and springs - Brass / phosphor Bronze.

### Application:

#### Purpose

To provide secure locking of swinging cell doors using third party security management systems (SMS) or conventional key control, whilst providing a means for remote occupant release and bolt withdrawal via an internal handle.

#### Overview

The 4L78 is a surface mounted lock of robust construction based on the Chubb Lock Custodial Services standard cell lock footprint. The main bolt is a sprung latch providing a throw of 25mm, secure locking is achieved by two independent methods:

- **Electrical Mode** – Locking/unlocking by 24 Volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle (externally by staff or internally by occupant), which should also be used when closing the door.
- **Manual Mode** – Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle, which should also be used when closing the door. Key operates from corridor side only.
- **Manual Override** – In the event of power or communication failure an override key is used to disable electric locking function. ***The lock will operate if slammed to shut, however, CLCS recommend that in normal operation the handle is used to withdraw the bolt when closing.***



### Specification:

#### Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 25mm throw.
- Dual solenoid electric locking latch.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Lock provides status monitoring outputs for critical functions and tamper.
- 5 bolt secure fixing.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.

#### Performance

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Handle mechanism tested to a minimum of 300,000 bolt operations
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.
- Saw attack 12 hours
- End load 13.5 kN
- Side Load 25 kN

#### Additional Features



## 4L78

### Electro-Mechanical Cell Lock

- Can be configured to provide cell side furniture to be used where remote release is desirable.
- Range of fixings including backplates, stud fixings, locking plate and keeps.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.
- Interchangeable mechanical inner locking unit to enable re-coding.
- This lock is not available under a master key system.

#### Total Range

- The lock is available in left or right hand variants for opening in or opening out doors and can be fitted to steel or wooden doors. A range of spindle and backplate stud lengths is available to suit door thicknesses from 25 to 70mm.
- Detailed technical details are available on request for this product.

#### Dimensions & Weights

Case Height	286mm
Case Length	267mm
Case Thickness	30mm
Bolt Throw	25mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	12kg

#### Finish:

- Lock case - carbon steel electro-plated and powder coated exterior.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

### Application:

#### Purpose

To provide secure locking of swinging cell doors using third party security management systems (SMS) or conventional key control. The lock can be configured to provide a softer aesthetic appearance without reducing security.

#### Product Codes

- 3F51/002/01/S LOCK ASSY RIGHT HAND REVERSE
- 3F51/002/02/S LOCK ASSY LEFT HAND REVERSE
- 3F51/002/03/S LOCK ASSY RHR ANTI LIG DOME HDLS
- 3F51/002/04/S LOCK ASSY LHR ANTI LIG DOME HDLS

#### Overview

The 3F51 is a mortice lock of robust construction. The main bolt is a sprung latch providing a throw of 25mm, secure locking is achieved by two independent methods:

**Electrical Mode:** Locking/unlocking by 24 volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when closing the door.

**Manual Mode:** Locking/unlocking achieved using conventional (mechanical) key. Bolt withdrawal by handle, which should also be used when closing the door. Key operates from corridor side only.

**Manual Override:** In the event of power or communication failure an override key is used to disable electric locking function.

The lock will operate if slammed to shut, however, we recommend that in normal operation the handle is used to withdraw the bolt when closing.

#### Standard Features

- Solid Case Technology - lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers and 25mm throw.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.
- Unique dual solenoid electric locking latch.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.

### Specification:

#### Dimensions & Weights

- Case Height – 206 mm
- Case Length – 229 mm
- Case Thickness – 29 mm
- Dead bolt throw – 25 mm
- Dead bolt depth – 45 mm
- Dead bolt thickness – 22 mm
- Weight (lock only) – 12.5Kg

All dimensions are approximate – customer drawing available upon request.



### Standards:

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Saw attack on the main bolt 12 hours.
- Side and End Load 13.5KN
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.

3F51

## Heavy duty mortised electro-mechanical cell lock

### Finish:

#### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - carbon steel electro-plated.
- **Main bolt follower** - high tensile brass.
- **Keys** - hardened steel.
- **Levers and springs** - Brass/phosphor bronze.

#### Options

- Various furniture options are available upon request

#### Additional Items

- Gatebox
- Lock interface unit for operation with commercial access control systems
- Door cable

### Application:

#### Purpose

To provide secure locking of swinging cell doors, under conventional key control where automatic deadlocking is a requirement.

#### Product Codes

3F56/002/01/S - RHOI STD ILU to suit T handle  
3F56/002/03/S - LHOI STD ILU to suit T handle  
3F56/002/05/S - RHOI STD ILU to suit lever handle  
3F56/002/06/S - RHOI STD ILU to suit lever handle  
3F56/002/07/S - LHOI STD ILU to suit lever handle  
3F56/002/08/S - LHOI STD ILU to suit lever handle  
3F56/003/01/S - RHOI SUITED ILU to suit lever handle  
3F56/003/02/S - LHOI SUITED ILU to suit lever handle  
3F56/003/03/S - RHOI SUITED ILU to suit lever handle  
3F56/003/04/S - LHOI SUITED ILU to suit lever handle

#### Overview

The 3F56 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. The main bolt is automatically extended providing a 32mm throw and deadlocked on closure of the door (4.8mm gap maximum - forend to mating surface).

Secure unlocking / locking is achieved as follows:

Unlocking is achieved by a partial turn of the servant key which lifts the internal blocking mechanism enabling the withdrawal of the main bolt by the handle. The bolt is then retained automatically when fully retracted and the door is out of frame.

Locking is achieved automatically; on closure of the door the brass snib bolt is depressed on contact with the strike plate mounted to the frame, this then releases the main bolt. Deadlocking occurs when the main bolt is fully extended allowing the internal blocking mechanism to engage.

Use of the master key (by rotating the top of the key towards the front of the lockcase when the ILU bolt is in the locked position) will further extend the ILU bolt which disables use of the servant key. The servant key can be re enabled by rotating the top of the master key towards the rear of the lockcase.

#### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with integral passive magnet, carbide anti-cutting rollers, and 32mm throw.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.

### Specification:

#### Lock Dimensions (Approx)

- Case Height - 207mm
- Case Length - 220mm
- Case Thickness - 29mm



### Standards:

- Mechanical locking mechanism tested to a minimum of 100,000 operations
- Handle mechanism tested to a minimum of 300,000 bolt operations
- Saw attack on the main bolt 12 hours
- End load 13.5 KN
- Side Load 25 KN

## 3F56

### Heavy duty morticed mechanical slam action cell lock

- Bolt Throw – 32mm
- Bolt Depth – 45mm
- Bolt Thickness – 22mm

Dimensioned customer drawings are available upon request.

#### Finish:

##### Materials and Finishes

- Lock case – Carbon steel electro-plated.
- Main bolt – Carbon steel electro-plated.
- Main bolt follower - High tensile brass.
- Levers and springs – Brass / phosphor Bronze.

##### Additional Items

- Keys – hardened steel (ordered separately to the lock)
- 3F56/052/01/S – Lever Handle Furniture Kit RH
- 3F56/052/02/S – Lever Handle Furniture Kit LH
- Other furniture options available upon request

## Application:

### Purpose

To provide secure locking of swinging cell doors, under conventional key control where a lock back facility is a requirement. The lock can be configured to provide a softer aesthetic appearance without reducing security.

### Product Codes

3F65/002/01/S LOCK ASSY RIGHT HAND REVERSE

3F65/002/02/S LOCK ASSY LEFT HAND REVERSE

### Overview

The 3F65 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. The main bolt is an un-sprung rectangular deadbolt providing a throw of 32mm.

Locking/unlocking is achieved by a full turn of the key allowing the handle to throw or withdraw the bolt. When the key is withdrawn the main bolt can be left in two positions - fully thrown (ie secure when door in frame) or bolt fully withdrawn and locked back.

### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 32mm throw.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist interference via the keyhole.
- Escutcheon designed to give positive key alignment.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.

### Additional Features

- Optional external status indicator.
- Can be keyed to the existing CLCS 4L range of cell locks.
- Interchangeable mechanical inner locking unit to enable re-coding.
- Can be configured to differ, to pass or under a master key scheme.



## Standards:

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Saw attack on the main bolt 12 hours.
- Side and End Load 13.5KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

## Specification:

### Dimensions & Weights

- **Case Height** – 206 mm
- **Case Length** – 229 mm
- **Case Thickness** – 29 mm
- **Dead bolt throw** – 25 mm
- **Dead bolt depth** – 45 mm
- **Dead bolt thickness** – 22 mm
- **Weight** (lock only) – 12.5Kg

All dimensions are approximate – customer drawing available upon request.

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - carbon steel electro-plated.
- **Main bolt follower** - high tensile brass.
- **Keys** - hardened steel.
- **Levers and springs** - Brass/phosphor bronze.

##### Additional Items

- Range of furniture options available.
- Range of fixings including gatebox, locking plate and keep.

### Application:

#### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging cell doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile. The key is supplied to enable an override (unlocking) for the electric locking if power fails.

Note (1): The Chubb 5 lever mechanism fitted to the 3L215 can not be used to mechanically lock the latch bolt – it can only be used to unlock the electric locking mechanism.

Note (2): The Chubb 5 lever mechanism fitted to the 3L215 can not be master keyed. Please contact CLCS if a master key mechanism is required as an alternative product is available.

Note (3): The latch bolt can only be withdrawn by operating the handle mechanism.

#### Overview

The 3L215 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended. The latch bolt cannot be electrically locked back when fully withdrawn.

#### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is engaged. Unlocking is achieved by 24 Volt DC supply from an external source to energise (lift) the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the unlocked state when the door is out of frame.

#### Manual Override

In the event of power or communication failure an override key is used to override the solenoid locking bolt.

#### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever override mechanism.
- Factory restricted key section.
- Status output – secure / insecure
- Pick resistant mechanism with protective curtain.

#### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).

### Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2



### Mortice electro-mechanical cell lock with DIF sensor

- This lock can be supplied in groups keyed alike.

#### Finish:

##### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

##### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Handle & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 – Chrome Silver Painted
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated with Triklad high performance Trivalent Coating
- **Lock Installation Cable** - Standard 3 or 10 metre pre wired cable or site cable available upon request.

### Application:



#### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging cell doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile or as an option Chubb 7 lever master keyed locking unit. The key is supplied to allow the lock to be mechanically secured and monitored.

#### Overview

The 3L217 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended and door inframe. The latch bolt cannot be electrically locked back when fully withdrawn.

#### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is energised +24 Volt DC to engage. Unlocking is achieved by de-energising the 24 Volt DC supply from an external source to lift the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the locked state when the door is in frame.

#### Manual Override

The lock is not provided with a manual override. If power fails the locking solenoid will automatically disengage.

#### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever locking mechanism.
- Locks can be keyed alike or keyed to differ
- Factory restricted key section.
- Status output – secure / insecure, door inframe and mechanical locking status.
- Pick resistant mechanism with protective curtain.

#### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).
- This lock can be supplied in groups keyed alike.
- Master keyed option using Chubb 7 lever mechanism.

### Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2

### Specification:

#### Materials and Finishes

3L217.001

## Mortice electro-mechanical cell lock with DIF sensor

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate to CM5 M1047
- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Knob & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 - Polished and plated.
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated to CM5 M1047
- **N35 Magnet** - BN017A 6MM X 25MM
- **Lock Installation Cable** - 3 or 10 metre (or custom length to suit)

### Application:

#### Purpose

Latch bolt lock to provide electric and mechanical locking / unlocking of swinging cell doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid and a Chubb 7 lever mechanical mechanism can also be used to both lock and unlock the 3L218. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked either mechanically or electrically.

#### Overview

The 3L218 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended and the door is in frame. The latch bolt cannot be locked back when fully withdrawn.

#### Electrical Mode

Locking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is engaged. Unlocking is achieved by 24 Volt DC supply from an external source to energise (lift) the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the unlocked state when the door is out of frame.

#### Mechanical Mode

Mechanical dead locking is achieved using a conventional Chubb mechanical key and 7 lever mechanical mechanism to engage a secondary deadlock when the main bolt is fully extended. Electric unlocking cannot be achieved while the mechanical locking mechanism is engaged.

#### Manual Override

In the event of power or communication failure an override key is used to override the solenoid locking bolt. Both keys, Mechanical and Override, are supplied to a different combination and are clearly identified.

#### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Chubb 7-lever override and mechanical deadlock mechanism.
- Factory restricted key section.
- 1 metre fly lead without connected socket
- Status output – secure / insecure / deadlocked

#### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock as standard).
- Door cable available in 3M or 10M lengths (not supplied with lock).
- This lock can be supplied in groups keyed alike.

### Standards:

- Mechanical override mechanism tested to a minimum of 100,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2

### Finish:

#### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate with Triklad high performance

### Mortice electro-mechanical cell lock with DIF sensor

Trivalent Coating

- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Keys** - Mild Steel to BS EN10083 – C22E Natural

#### **Additional Items / Furniture**

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Handle & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 – Chrome Silver Painted
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated with Triklad high performance Trivalent Coating
- **Lock Installation Cable** - 3 or 10 metre pre wired cable or site cable available upon request.

## Application:

### Purpose

To provide secure locking of swinging pass doors controlled by Atlas® LCMS software or conventional key control. Atlas® LCMS software provides a range of operating functionality which can be configured to suit each site.

### Overview

The 3A63 is a mortice lock of robust construction based on the Chubb Locks Custodial Services standard large mortice footprint. The main bolt extends by 25mm and is operated turning the handle to both lock and unlock. The lock is designed to accept inputs from tokens and can be programmed to enable a range of time / date driven access permissions. Locks can also be controlled remotely from a control room environment.

- **Electronic Mode** – Deadlocking is achieved by closing the door and turning the handle to fully extend the bolt. Unlocking is achieved by inserting an electronic token (key) into the lock which, after authentication, an input signal is provided to lift the blocking device and withdrawing the bolt via the handle. The lock can also be configured to provide features such as auto-relock, door insecure time out etc. Additionally remote operation can be achieved via Atlas® Client / Mimic PC.
- **Manual Mode** – Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle. Key operates from both sides of the door
- **Manual Override** – In the event of power or communication failure an override key is used to lift the electric locking unit. Both keys are supplied to a different combination and are clearly identified.



## Specification:

### Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 25mm throw.
- Solenoid electric locking latch.
- Visual lock status indication via LED.
- Intelligent lock which will continue to operate in the absence of LCMS server.
- Independent 8-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.

### Performance

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Handle mechanism tested to a minimum of 1,000,000 bolt operations
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.

## 3A63

## ATLAS® Electronic Pass Lock

- Nominal operating current 500mA .
- Saw attack 12 hours
- End load 13.5 kN
- Side Load 25 kN

### Additional Features

- Robust handle and escutcheon design.
- T-handle
- Range of fixings including gate box, transition plates with fixings and locking plate.
- Interchangeable mechanical inner locking unit to enable re-coding.
- This lock is not available under a master key system.

### Total Range

- The lock is available in left or right hand variants and can be fitted to steel or wooden doors.

### Dimensions & Weights

Case Height	208mm
Case Length	239mm
Case Thickness	29mm
Bolt Throw	25mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	10.4kg

### Finish:

- Lock case - carbon steel electro-plated.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

### Application:

#### Purpose

To provide secure locking of swinging cell/bedroom doors with a 'privacy' locking facility under operation by the occupant, from within the accommodation unit only. Locks detailed in this specification also include an integral Door In Frame Sensor (DIF) to indicate the door status when used in conjunction with a suitable DIF magnet.

#### Overview

The 3F65P is a mortice lock of robust construction based on the CLCS standard large mortice lock footprint with a main bolt that can be locked in the fully thrown or fully withdrawn position. Locking is achieved by a completely separate, interchangeable inner locking unit, operable from the outside only, the vertically sliding bolt of which, engages a recess in the main bolt.

A privacy facility is also provided allowing a secondary privacy bolt to be locked or unlocked by anti-ligature furniture from the inside of the accommodation. The privacy bolt can be overridden by a key holder by extending and then withdrawing the main bolt. A clutch mechanism fitted to the internal furniture ensures that staff members always remain in control of the privacy bolt.



### Specification:

#### Principal of Operation

- **Locking / Unlocking of the Main Bolt –**  
Locking/unlocking is achieved by a partial turn of the key and handle operation to throw or withdraw the bolt. On withdrawing the key the main bolt will be automatically left locked in the position chosen (i.e. fully thrown or unlocked). Withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown.
- **Locking / Unlocking of the Privacy Bolt –** The occupant's 'Privacy' bolt can be locked / unlocked from within the accommodation unit via the anti-ligature furniture fitted to the inside of the door. However, the door cannot be opened from the inside if the main bolt is extended and secured in frame. In addition withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown. A cover plate can also be fitted to the external side of the door to provide emergency access to the privacy mechanism.

#### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- 32mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers.
- Independent 7-lever locking mechanism (ILU).
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Status monitoring outputs of (1) Door in Frame, (2) Main Bolt Extended (3) ILU Status
- Privacy locking / unlocking operable from within the



### Morticed Mechanical Privacy Lock - Monitored

accommodation via door mounted furniture or via override by the main bolt or by removing the external cover plate.

#### Performance/Testing/Standards

- Mechanical locking mechanism tested to a minimum of 100,000 operations
- Main bolt handle mechanism tested to a minimum of 300,000 bolt operations
- Saw attack on the main bolt 12 hours
- End load 13.5 kN
- Side Load 25 kN

#### Additional Items

- Handle and escutcheon kits (not supplied with the lock). Kits can be supplied to suit various functional requirements, door thicknesses and aesthetic requirements.
- Frame mounted magnet assembly (to operate with the integral DIF sensor)
- Locking plate with integral magnet assembly.
- Gate Box
- Door cable
- Reinforcing plates for use on wooden doors
- Privacy Cylinder for corridor side of door

#### Dimensions & Weights

Case Height	207mm
Case Length	226mm
Case Thickness	29mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	11kg

#### Finish:

- Lock case – carbon steel electro-plated and powder coated exterior.
- Main bolt – carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel.
- Levers and springs – Brass / phosphor Bronze.

## 3G112 Mark 1

## Morticed Deadlock – Double Action

### Application:

#### Purpose

To provide secure deadlocking of swinging doors or gates where an enhanced level of security is necessary. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes.

#### Overview

The 3G112 Mark 1 is a mortice deadlock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. The mechanical deadbolt provides an overall throw of 34mm which comprises an initial throw of 17mm and a second throw of a further 17mm.

The lock is designed so that the doubles key will perform both the first and second throw, while the singles key will operate the first throw only.

The lock is operable from both sides with separate key holes for each key type. The escutcheon is designed to prevent the incorrect key being inserted into the lock.

Secure locking is achieved by two independent keys:

#### Singles Key – Operates first throw only

- Locking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will extend the bolt to its first position.
- Unlocking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will withdraw the bolt.

**Note** the singles key will not operate the second (doubles) throw.

#### Doubles Key – Operates first and second throw

- Locking, by inserting the doubles key into the offset keyhole and rotating fully the bolt can be thrown to its first position. A further rotation of the key will throw the bolt to its second position, preventing the servant key operating the lock.
- Unlocking is achieved by inserting the doubles key into the offset keyhole and rotating fully. This action will withdraw the bolt to either enable operation under servant key or by a further rotation to fully withdraw the bolt to unlock.

**Note** the doubles key will operate both throws.



### Specification:

#### Features

- Composite deadbolt, with carbide anti-cutting rollers and 34mm throw.
- 16 lever highly durable mechanism.
- Independent single and double actions.
- Low friction key journals.
- Lever arrangement designed to provide extended product life.
- Dedicated key profiles.
- Escutcheon designed to give positive key alignment.
- Security fixings to prevent unauthorised removal.

#### Performance

- Lock tested to a minimum of 500,000 key operations.

## 3G112 Mark 1

### Morticed Deadlock – Double Action

- Saw attack 12 hours
- End load 13.5kN
- Side Load 13.5 kN

#### Additional Features

- Suitable for external and internal use.
- Range of fixings including reinforcing plates and locking plates.
- Available in alternative furniture finishes on request.
- Can be keyed with 3M56 Mark 1 Hook Bolt
- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Rebate kit available for wooden door applications
- Monitored versions available with micro-switch sensing of bolt position.
- Single sided version available on request.
- Singles key operation only version available on request.
- Doubles key operation only version available on request.

#### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** Wooden Doors: This lock should be fitted to a wooden door with a minimum thickness of 54mm. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase height	114mm
Lockcase width	21mm
Weight (lock only)	2.1kg

#### Finish:

- Lock case – carbon steel electro-plated.
- Bolt – stainless steel and brass composite.
- Escutcheons – silica brass
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze

## 3G112 Mark 2

## Morticed Deadlock – Double Action

### Application:

#### Purpose

To provide secure deadlocking of swinging doors or gates where an enhanced level of security is necessary. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes.

#### Overview

The 3G112 Mark 2 is a mortice deadlock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. The mechanical deadbolt provides an overall throw of 34mm which comprises an initial throw of 17mm and a second throw of a further 17mm.

The lock provides two independent bolt throws where each throw is operated by a unique key. The keys are designed so that neither key will perform the function of the other key.

The lock is operable from both sides with separate key holes for each key type. The escutcheon is designed to prevent the wrong key being inserted into the lock.

Secure locking is achieved by two independent keys:

#### Singles Key – Operates first throw only

- Locking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will extend the bolt to its first position.
- Unlocking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will withdraw the bolt.

**Note** the Singles key will not operate the second (Doubles) throw.

#### Doubles Key – Operates second throw only

- Locking, providing the singles key has been used to operate the first throw, the doubles key can be utilised. By inserting the doubles key into the offset keyhole and rotating fully the bolt will be thrown to its maximum extent and preventing operation by the servant key.
- Unlocking is achieved by inserting the doubles key into the offset keyhole and rotating fully, this action will withdraw the bolt to enable operation under servant key.

**Note** the Doubles key will not operate the first (Single) throw.



### Specification:

#### Features

- Composite deadbolt, with carbide anti-cutting rollers and 34mm throw.
- 16 lever highly durable mechanism.
- Independent single and double actions.
- Low friction key journals.
- Lever arrangement designed to provide extended product life.
- Dedicated key profiles.
- Escutcheon designed to give positive key alignment.
- Security fixings to prevent unauthorised removal.

#### Performance

## 3G112 Mark 2

### Morticed Deadlock – Double Action

- Lock tested to a minimum of 500,000 key operations.
- Saw attack 12 hours
- End load 13.5kN
- Side Load 13.5 kN

#### Additional Features

- Suitable for external and internal use.
- Range of fixings including reinforcing plates and locking plates.
- Available in alternative furniture finishes on request.
- Can be keyed with 3M56 Mark 2 Hook Bolt
- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Rebate kit available for wooden door applications
- Monitored versions available with micro-switch sensing of bolt position.
- Single sided version available on request.
- Singles key action only, version available on request.

#### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** Wooden Doors: This lock should be fitted to a wooden door with a minimum thickness of 54mm. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase height	114mm
Lockcase width	21mm
Weight (lock only)	2.1kg

#### Finish:

- Lock case - carbon steel electro-plated.
- Bolt – stainless steel and brass composite.
- Escutcheons – silica brass
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze.

## 3G112 Mark 3

## Morticed Deadlock – Single Action

### Application:

#### Purpose

To provide secure locking of swinging pass / control doors and gates where positive locking by a mechanical key is required.

#### Overview

The 3G112 Mark 3 is a mortice deadlock of robust construction based on the Chubb Locks Custodial Services small mortice lock footprint. The mechanical deadbolt provides a throw of 17mm.

The lock provides deadlocking operated by a unique key profile to the Mark 3 range of locks and will not operate Mark 1 or Mark 2 lock variants. The lock is operable from both sides and the escutcheon is designed to allow only the correct key profile to be inserted into the lock.

**Note:** This lock cannot be master keyed.



### Specification:

#### Principal of Operation

- **To Deadlock** – Insert the key in to the escutcheon and rotate once (top of the key rotates towards the door edge)
- **To Unlock** – Insert the key in to the escutcheon and rotate once (top of the key rotates away from the door edge)

#### Standard Features

- Heavy Duty Electroplated Steel cap and case
- 17mm throw laminated bolt fitted with anti-saw Tungsten Carbide rollers
- 12 lever key mechanism (6 for the purpose of differing)
- Factory restricted hardened steel one piece key
- Nylon key journals moulded to the cap and case to increase wear resistance
- Security fixing screws
- Microswitch versions feature bolt status monitoring

#### Performance/Testing/Criteria

- Mechanical locking mechanism tested to a minimum of 500,000 operations
- Saw attack on the main bolt 12 hours
- End load 13.5 kN
- Side Load 13.5 kN
- Impact tested to UK Government requirements

#### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** Wooden Doors: This lock should be fitted to a wooden door with a minimum thickness of 54mm. Please contact CLCS for guidance if alternative wooden door thicknesses are required.

#### Dimensions & Weights (Approx)

Case Height	114mm
Case Length	171mm
Case Thickness	21mm

Bolt Throw	17.4mm
Bolt Depth	58.7mm
Bolt Thickness	16.5mm
Weight (lock only)	2.5kg

#### Finish:

- Lock case – carbon steel electro-plated
- Main bolt – stainless steel bolt tail with brass bolt heads and running blocks. Stainless Steel bolt head & blocks are available
- Escutcheons – investment cast brass natural
- Faceplate – Brass
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

#### Application:

##### Purpose

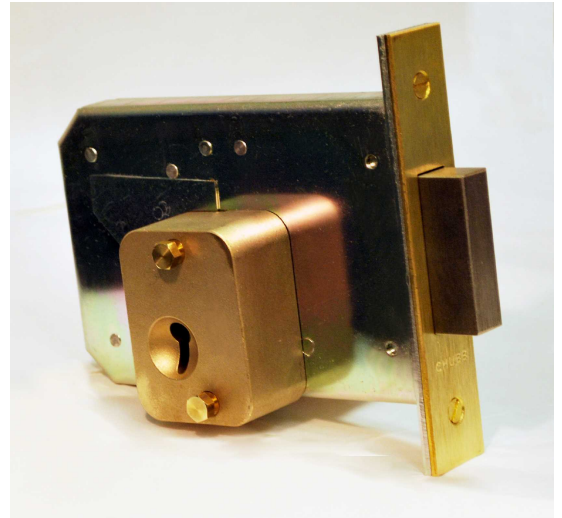
To provide secure deadlocking of swinging doors or gates where a greater range of keying options is desirable. This lock is designed for high usage applications and is also suitable for specialised applications such as explosive containers and armouries.

##### Overview

The 3G317 is a mortice deadlock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. The mechanical deadbolt can be supplied with single throw of 20mm or a double throw of 40mm. The lock can be supplied with key operation from both sides or from one side only.

Unlocking / Locking is achieved by turning the key fully which extends and withdraws the deadbolt. The lock can be configured to operate under a number of key control arrangements which are as follows:

- **Single key – single throw deadlock** – Keyed to differ.
- **Master keyed – single throw deadlock** – Keyed to differ or to pass in groups under a common master key.
- **Twin keyed, double throw, double action deadlock** – Singles key operates first throw only and doubles key operates second throw only. Doubles key locks out unauthorised use of singles key when second throw is operated.
- **Twin keyed, double throw, double action deadlock** – Singles key operates first throw only and doubles key operates both first and second throw. Doubles key locks out unauthorised use of singles key when second throw is operated.



#### Specification:

##### Features

- Carbon steel deadbolt, with carbide anti-cutting rollers and 40mm maximum throw.
- 7 detainer manipulation resistant locking mechanism.
- Independent Single and Doubles actions available.
- Precision machined and hardened bolt thrower.
- Dedicated key profile operates 3G317 range of locks only.
- Escutcheon designed to give positive key alignment.
- Security fixings to prevent unauthorised removal.

##### Performance

- Lock tested to a minimum of 500,000 key operations.
- Saw attack 30 mins
- End load 9 kN
- Side Load 13.5 kN

##### Additional Features

- Suitable for external and internal use.
- Range of fixings including reinforcing plates and locking plates.
- Available in alternative furniture finishes on request.
- Cannot be keyed with any other locks in the CLCS range.
- Key designed to enable quick and easy re-alignment of displaced throwers.



### Morticed Deadlock

- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Rebate kit available for wooden door applications.
- Monitored versions available with micro-switch sensing of bolt position.
- Single sided version available on request.

#### Total Range

- The lock is generally not handed, however when keyed from one side only the lock is handed. For use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** CLCS recommend this lock is used in conjunction with a wooden door 54mm thick. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase length	114.2mm
Lockcase width	21.5mm
Weight (lock only)	3kg

#### Finish:

- Lock case – carbon steel electro-plated.
- Bolt – carbon steel electro-plated.
- Escutcheons – silica brass
- Keys – hardened steel
- Detainers and springs – brass / phosphor bronze.

### Application:

#### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging pass doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile. The key is supplied to enable an override (unlocking) for the electric locking if power fails.

Note (1): The Chubb 5 lever mechanism fitted to the 3L215 can not be used to mechanically lock the latch bolt – it can only be used to unlock the electric locking mechanism.

Note (2): The Chubb 5 lever mechanism fitted to the 3L215 can not be master keyed. Please contact CLCS if a master key mechanism is required as an alternative product is available.

Note (3): The latch bolt can only be withdrawn by operating the handle mechanism.

#### Overview

The 3L215 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended. The latch bolt cannot be electrically locked back when fully withdrawn.

#### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is engaged. Unlocking is achieved by 24 Volt DC supply from an external source to energise (lift) the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the unlocked state when the door is out of frame.

#### Manual Override

In the event of power or communication failure an override key is used to override the solenoid locking bolt.

#### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever override mechanism.
- Factory restricted key section.
- Status output – secure / insecure
- Pick resistant mechanism with protective curtain.

#### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).
- This lock can be supplied in groups keyed alike.

### Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F

### Finish:

#### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO - Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

#### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Handle & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 – Chrome Silver Painted -
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated with Triklad high performance Trivalent Coating -
- **Lock Installation Cable** - Standard 3 or 10 metre pre wired cable or site cable available upon request.

### Application:



#### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging pass doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile. The key is supplied to allow the lock to be mechanically secured and monitored.

#### Overview

The 3L217 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended and door in frame. The latch bolt cannot be electrically locked back when fully withdrawn.

#### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is energised +24 Volt DC to engage. Unlocking is achieved by de-energising the 24 Volt DC supply from an external source to lift the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the locked state when the door is in frame.

#### Manual Override

The lock is not provided with a manual override. If power fails the locking solenoid will automatically disengage.

#### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever locking mechanism.
- Locks can be keyed alike or keyed to differ
- Factory restricted key section.
- Status output – secure / insecure, door inframe and mechanical locking status.
- Pick resistant mechanism with protective curtain.

#### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).

This lock can be supplied in groups keyed alike.

### Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2

### Finish:

#### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate to CM5 M1047

3L217.002

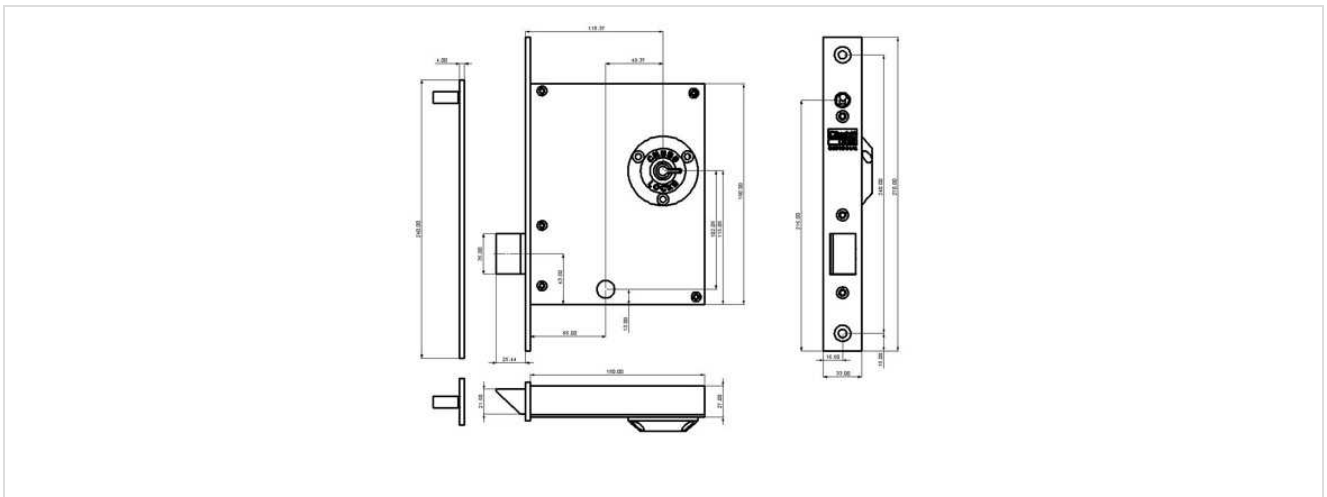
## Morticed electro-mechanical pass lock with DIF sensor

- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Knob & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 - Polished and plated.
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated to CM5 M1047
- **N35 Magnet** - BN017A 6MM X 25MM
- **Lock Installation Cable** - 3 or 10 metre (or custom length to suit)

### Technical Design:



#### Application:

##### Purpose

To provide secure locking of swinging passage / control doors using third party security management systems (SMS) or conventional key control. Designed to enable key and electric operation from both sides of the door. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes.

##### Overview

The 3R63 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. It has a substantial bolt designed to be withdrawn by means of a large 'T' handle or lever handle, on either side of the lock, whether opening or closing the door. The face of the bolt is angled so that it will slam shut in an emergency, but excessive slamming is not recommended and may lead to premature wear and failure. Locking is achieved by means of a completely separate (and interchangeable) inner locking unit, operable from either side, the vertically sliding bolt of which, engages in a recess in the main bolt: alternatively, a plunger controlled by the solenoid unit, operates in a similar manner at the rear end of the bolt.



#### Specification:

##### Principal of Operation

- **Electrical Mode** – Locking/unlocking by 24 Volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Mode** – Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Override** – In the event of power or communication failure an override key is used to disable the electric locking function.

##### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- 25mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers
- Dual solenoid electric locking latch.
- Independent 8-lever locking mechanism.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3A63/3A73/3R63 group of locks only.

##### Performance/Testing/Standards

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Solenoid locking unit tested to a minimum of 1,000,000

## 3R63

### Electromechanical Mortice Pass Lock

cycles.

- Saw attack on the main bolt 12 hours.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.
- End load 13.5 kN
- Side Load 25 kN

#### Additional Items

- Range of handle / knob options
- Gate Box
- Lock Interface Unit to facilitate operation by commercial access control systems
- Door cable
- Reinforcing plates for use on wooden doors

#### Dimensions & Weights

Case Height	207mm
Case Length	229mm
Case Thickness	29mm
Bolt Throw	25mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	10.5kg

Please request customer drawing for detailed information.

#### Finish:

- Lock case - carbon steel electro-plated.
- Main bolt - carbon steel electro-plated.
- Main bolt follower – high tensile brass.
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze.

### Application:

#### Purpose

To provide secure locking of swinging passage / control doors using third party security management systems (SMS) or conventional key control. Designed to enable key and electric operation from both sides of the door. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes. Locks detailed in this specification also include an integral Door In Frame Sensor (DIF) to indicate the door status when used in conjunction with a suitable DIF magnet.

#### Overview

The 3R63 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. It has a substantial bolt designed to be withdrawn by means of a large 'T' handle or lever handle, on either side of the lock, whether opening or closing the door. The face of the bolt is angled so that it will slam shut in an emergency, but excessive slamming is not recommended and may lead to premature wear and failure. Locking is achieved by means of a completely separate (and interchangeable) inner locking unit, operable from either side, the vertically sliding bolt of which, engages in a recess in the main bolt: alternatively, a plunger controlled by the solenoid unit, operates in a similar manner at the rear end of the bolt.



### Specification:

#### Principal of Operation

- **Electrical Mode** – Locking/unlocking by 24 Volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Mode** – Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Override** – In the event of power or communication failure an override key is used to disable the electric locking function.

#### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- 25mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers
- Dual solenoid electric locking latch.
- Independent 8-lever locking mechanism.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3A63/3A73/3R63 group of locks only.
- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm



### Electromechanical Mortice Pass Lock With DIF Sensor

working range)

#### Performance/Testing/Standards

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Saw attack on the main bolt 12 hours.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.
- End load 13.5 kN
- Side Load 25 kN

#### Additional Items

- Handle and escutcheon kits (not supplied with the lock). Kits can be supplied to suit various functional requirements, door thicknesses and aesthetic requirements. Contact CLCS for further details.
- Frame mounted magnet assembly (to operate with the integral DIF sensor)
- Locking plate with integral magnet assembly.
- Gate Box
- Lock Interface Unit to facilitate operation by commercial access control systems
- Door cable
- Reinforcing plates for use on wooden doors

#### Dimensions & Weights

Case Height	207mm
Case Length	229mm
Case Thickness	29mm
Bolt Throw	25mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	10.5kg

Please request customer drawing for detailed information.

#### Finish:

- Lock case – carbon steel electro-plated.
- Main bolt – carbon steel electro-plated.
- Main bolt follower – high tensile brass.
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze.

### Application:

#### Purpose

To provide secure locking of swinging passage / control doors using third party security management systems (SMS) or conventional key control. Designed to enable key and electric operation from both sides of the door. This lock is specifically designed for very high use applications; typically securing perimeter gates and main access routes.

#### Product Codes

3R66/001/03/S D/C PASS D'LOCK BODY ONLY  
3R66/002/01/S D/CONT P/LOCK ILU W/D NO FIX ITEMS  
3R66/002/02/S D/CONT P/LOCK ILU W/D + FIX ITEMS  
3R66/002/03/S D/CONT P/LOCK ILU S/D NO FIX ITEMS  
3R66/002/04/S D/CONT P/LOCK ILU S/D + FIX ITEMS

#### Overview

The 3R66 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. It has a substantial bolt designed to be withdrawn by means of a large 'T' handle or lever handle, on either side of the lock, whether opening or closing the door. Locking is achieved by means of a completely separate (and interchangeable) inner locking unit, operable from either side, the vertically sliding bolt of which, engages in a recess in the main bolt: additionally, a plunger controlled by the solenoid unit, operates in a similar manner via an electronic management system.

#### Principal of Operation

##### Electrical Mode

Locking/unlocking by 24 Volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.

##### Manual Mode

Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.

##### Manual Override

In the event of power or communication failure an override key is used to disable the electric locking function.

##### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- 25mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers
- Unique dual solenoid electric locking latch.
- Independent 8-lever locking mechanism.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3A63/3R63/3R66 group of locks only.

##### Additional Items

- Gatebox
- Lock interface unit for operation with commercial access control systems
- Door cable

## 3R66

## Morticed electro-mechanical deadlock

- Reinforcing plates for use on timber doors

### Finish:

#### Materials and Finishes

**Lock case** - carbon steel electro-plated.

**Main bolt** - carbon steel electro-plated.

**Main bolt follower** – high tensile brass.

**Keys** – hardened steel

**Levers and springs** – brass / phosphor bronze.

#### Options

Various furniture options are available upon request

## Application:

### Purpose

To provide a means of securing wooden doors on offices and rooms where a range of suiting options is required, and/or where a high degree of protection against all known forms of criminal attack is needed.

### Product Codes

H3G110/108/BS LOCK BODY OLD SUITE  
H3G110/108/S MORT D/LOCK O/SUIT SAT NO KEYS  
H3G110/108A/BS LOCK BODY NEW SUITE  
H3G110/108A/S MORT D/LOCK N/SUIT SAT NO KEYS  
H3G110/P211 SUITE KEYS (NON BULLETED) 1.1/2" BBB  
H3G110/P211MK MASTER KEY NON BULLETED 1.1/2" BBB  
H3G110/P213 SUITE KEY (BULLETED) 1.1/2" BBB  
H3G110/P213MK MASTER KEY (BULLETED) 1.1/2" BBB  
H3G110/P411/1/S S.O SUITED DET'S NO KEYS

### Overview

A 44mm backset mortice lock with a single dead-action bolt. The lock is constructed of formed up case, welded forend and flat cap screwed to pillars in the case. A separate stainless steel or brass faceplate is attached to the forend.

### Standard Features

- Steel Body.
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Steel key.

### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system



## Standards:

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

## Finish:

### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.

#### Application:

##### Purpose

To provide a means of securing wooden doors on offices and rooms where a range of suiting options is required, and/or where a high degree of protection against all known forms of criminal attack is needed.

##### Product Codes

H3G135/010/04/S HSMDL SAT B/SEC EX KEYS  
H3G135/010/4/ST HSMDL SAT B/SEC SUITED

##### Overview

Featuring a unique key section, available only to secure establishments the 3G135 is a 44mm backset mortice lock with a single dead-action bolt. The lock is constructed of formed up case, welded forend and flat cap screwed to pillars in the case. A separate stainless steel or brass faceplate is attached to the forend.

##### Standard Features

- Steel Body.
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

#### Application:

##### Purpose

To provide a means of securing wooden doors on offices and rooms where the use of a handle is required.

##### Product Codes

H3J60/010/03/S 1 BOLT MORT OLD SUITE NO KEYS  
H3J60/010/03A/S 1 BOLT MORT NEW SUITE NO KEYS  
H3J60/010/04/S 2 BOLT MORTICE LOCK OLD SUITE  
H3J60/010/04A/S 2 BOLT MORTICE LOCK NEW SUITE  
H3J60/010/14ABS LOCK BODIES WITHOUT DETAINERS  
H3J60/010/14BS LOCK BODIES WITHOUT DETAINERS

##### Overview

Mortice lock with formed-up case and welded Forend. Flat cap screwed to pillars in case. Horizontal construction with follower for handle at same level as keyhole.

Deadbolt operable by key only from either side (full turn to lock or unlock). Latch released by knob/handle only from either side, but will re-engage without the use of the knob/handle, under light door closing force.

##### Standard Features

- Steel Body.
- Latch bolt allowing use of a handle
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt and latch bolt**- brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.

# Secure Healthcare

3160X

Horizontal 1 bolt mortice lock

# ASSA ABLOY



#### Application:

##### Purpose

To provide a means of securing wooden doors on offices and rooms where the use of a handle is required.

##### Overview

Mortice lock with formed-up case and welded Forend. Flat cap screwed to pillars in case. Upright construction with follower for handle in line with and above the keyhole.

Deadbolt operable by key only from either side (full turn to lock or unlock). Latch released by knob/handle only from either side, but will re-engage without the use of the knob/handle, under light door closing force.

##### Product Codes

H3K70/211/S 2/B MORT LH SAT O/SUIT NO KEYS

H3K70/211A/S2/B MORT LH SAT N/SUIT NO KEYS

H3K70/212/S 2/B MORT RH SAT O/SUIT NO KEYS

H3K70/212A/S2/B MORT RH SAT N/SUIT NO KEYS

##### Standard Features

- Steel Body.
- Latch bolt allowing use of a handle
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt and latch bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.



## 3M50

## Hook Bolt Upright Mortice Lock

### Application:

#### Purpose

To provide a means of securing sliding or hinged wooden doors on offices and rooms where anti lift protection is required.

#### Product Codes

H3M50/05SA/S H/B MORT HB SCP/P N/ST NO KEYS

#### Overview

Mortice lock with formed-up case and welded Forend. Upright construction comprising hook and steady bolts, both of which withdraw completely into the case. Hook and steady bolt operated by key from either side (full turn to lock or unlock).

#### Standard Features

- Brass hookbolt with anti-padsaw steel rollers.
- Brass steady bolt to prevent the door being lifted.
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

#### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system



### Standards:

#### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Tensile Load 5.0KN

### Finish:

#### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt and latch bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.

### Application:

#### Purpose

To provide a means of securing sliding wooden doors on offices and rooms where automatic closing action and anti lift protection is required.

#### Product Codes

Upon request

#### Overview

Mortice lock with formed-up case and welded Forend. Upright construction comprising hook and steady bolts, both of which withdraw completely into the case. Hook and steady bolt operated by key from either side (full turn to lock or unlock).

#### Standard Features

- Brass clutch bolt with anti-padsaw steel rollers.
- Brass stud bolt to prevent the door being lifted.
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

#### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

### Finish:

#### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Clutch bolt and stud bolt** - brass.
- **Clutch bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.



### Standards:

#### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the clutch bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Tensile Load 5.0KN

## 3R135X

### Upright high security mortice lock with latch bolt and snib

#### Application:

##### Purpose

To provide a means of securing swinging wooden doors on offices and rooms where a slam action and a unique key profile, for use only in high security establishments is required.

##### Product Codes

H3R135X/01/ST HOPD PRIVACY LOCK RH BRASS

H3R135X/02/ST HOPD PRIVACY LOCK LH BRASS

H3R135X/ST/BS HOPD PRIVACY LOCK BRASS BODY ONLY

##### Overview

Mortice lock with formed-up case and welded Forend. Upright construction comprising latch and snib bolts to provide auto deadlocking of the operating handle.

##### Standard Features

- Automatic deadlocking action
- Snib to hold back the bolt when the door needs to be left ajar
- Operating handle can be secured from either side
- Locking of handle can be inhibited for use as a fire escape door
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

#### Finish:

##### Materials and Finishes

- Lockcase, cap, forend and locking plate : mild steel (painted)
- Bolt head, deadlocking slide and follower : steel sinterings (nickel plated)
- Bolt tail, runner, dogging slide, detent, thrower flange and bolt stump arm : mild steel (nickel plated)
- Levers and thrower spindle : brass (natural finish)
- Lever Springs: 18/8 stainless steel
- Lever spring support : Glass reinforced nylon
- Snib follower : Mazak 3
- Thrower retaining spring : zinc plated spring steel
- Springs generally : stainless steel



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the latch bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN

## Application:

### Purpose

To provide a secure latch, operable by handle from one side or both sides, and by key from the other side or both sides, for use on wooden doors in offices and administration rooms.

### Product Codes

H3R35/207/S M.L.LATCH SS O/S EX.KEYS  
H3R35/207A/BS M.L.LATCH SS N/S EX.KEYS BODY ONLY  
H3R35/207A/S M.L.LATCH SS N/S EX.KEYS  
H3R35/208/BS M.L. LATCH BODY ONLY

### Overview

The lock is primarily designed to have a handle on one side of the door only. In "latched only" state i.e. having just pushed door to, the bolt can be withdrawn by means of the handle (from inside) or by partial turn of the key (from either side). The snib (above the handle) can be used to hold the bolt in the withdrawn position. A full turn of the key in the locking direction effectively deadlocks the handle which can then only be released by a full turn in the opening direction. The 3R35 can also be used without handles on either side.

### Standard Features

- Deadlocking slide (directly above latch bolt) deadlocks the latch bolt when the latter is engaged in the locking plate and prevents springing back by whatever means (Note: Gap between locking plate and forend must not exceed 3 mm).
- Deadlocking of handle (full turn of the key) to prevent operation of the handle from outside by breaking glass/panel etc. and reaching through.
- 5 lever locking mechanism with 9 lifts/lever affording at least 25,000 usable differs.
- False notching and common belly form on levers to deter reading and manipulation attacks.
- Key thrower with curtain to restrict access to the locking mechanism and further frustrate manipulative attack.
- Internal components designed to collapse under strong key attack leaving lock secure.
- Steel box on locking plate to protect head of bolt from jemmy attack.
- Edge gated levers suitable for master keying in suites compatible with other Chubb Security Range locks.
- Snib to hold bolt in withdrawn position and prevent door from accidentally latching.

## Finish:

### Materials and Finishes

- **Lockcase, cap, forend and locking plate** : mild steel (painted)
- **Bolt head, deadlocking slide and follower** : steel sinterings (nickel plated)
- **Bolt tail, runner, dogging slide, detent, thrower flange and bolt stump arm** : mild steel (nickel plated)



## Standards:

### Performance/Testing/Criteria

- 60,000 latch withdrawals using key.
- 240,000 latch withdrawals via follower.
- 300,000 slams.
- 60,000 full turns of key to deadlock and release.

### Upright mortice locking latch

- **Levers and thrower spindle** : brass (natural finish)
- **Lever Springs**: 18/8 stainless steel
- **Lever spring support** : Glass reinforced nylon
- **Snib follower** : Mazak 3
- **Thrower retaining spring** : zinc plated spring steel
- **Springs generally** : stainless steel

## 3R35X

## Upright mortice lock with latch bolt and snib

### Application:

#### Purpose

To provide a means of securing swinging wooden doors on offices and rooms where a slam action is required.

#### Product Codes

H3R35X/207A/BS M.L.L SS NS K.STP EX.KEYS BODY ONLY  
H3R35X/207A/S M.L.LATCH SS NS K.STOP EX.KEYS

#### Overview

Mortice lock with formed-up case and welded Forend.  
Upright construction comprising latch and snib bolts to provide auto deadlocking of the operating handle.

#### Standard Features

- Automatic deadlocking action
- Snib to hold back the bolt when the door needs to be left ajar
- Operating handle can be secured from either side
- Locking of handle can be inhibited for use as a fire escape door
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

#### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system



### Standards:

#### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the latch bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN

### Finish:

#### Materials and Finishes

- **Lockcase, cap, forend and locking plate** : mild steel (painted)
- **Bolt head, deadlocking slide and follower** : steel sinterings (nickel plated)
- **Bolt tail, runner, dogging slide, detent, thrower flange and bolt stump arm** : mild steel (nickel plated)
- **Levers and thrower spindle** : brass (natural finish)
- **Lever Springs**: 18/8 stainless steel
- **Lever spring support** : Glass reinforced nylon
- **Snib follower** : Mazak 3
- **Thrower retaining spring** : zinc plated spring steel
- **Springs generally** : stainless steel

#### Application:

##### Purpose

To provide secure locking of hinged wooden doors in storerooms, outhouses etc in secure establishments, where a latch action is not required.

##### Product Codes

3G114/07/S 2.1/2 MORT D/LOCK SAT NO KEYS

3G114/07/TP 2.1/2 MDL SAT TO PASS WITH KEYS

3G114/SC/67 2.1/2 MORT D/LOCK SAT TWO KEYS

##### Overview

Operable by key from either side (full turn to lock or unlock).

##### Standard Features

- Steel Body
- Brass deadbolt with 14mm throw
- Anti-padsaw steel rollers
- 5 lever mechanism offering over a thousand key combinations
- Built in protection against picking, drilling, force and torque attack
- Brass key
- Optional micro-switches for alarm system integration
- Can be suited as part of a master keyed system

#### Finish:

##### Materials and Finishes

- **Lockcase, cap, forend and locking plate** - mild steel (painted textured silver)
- **Bolt head, stump and tail** - integral brass stamping (natural finish).
- **Thrower** - die-cast mazak alloy (nickel-plated).
- **Levers** - hard rolled brass (natural finish).
- **Lever springs** - phosphor bronze (natural finish).
- **Thrower retaining spring** - spring steel (zinc-plated).
- **Faceplate and escutcheons** - brass or stainless steel (satin finish).



#### Standards:

##### Performance/Testing/Criteria

60,000 full turns of key to deadlock and release.

### Application:

#### Purpose

Replacement tokens for use with the ATLAS® system.

#### Overview

Can be used with both MK2 3A63 pass lock and 4A79 cell lock systems.

#### Standard Features

- Machined nylon enclosure
- Stainless steel mid section





#### Application:

##### Purpose

To enable conversion of either T handle or old style lever handle 4L cell locks to a rose mounted anti ligature lever handle

##### Overview

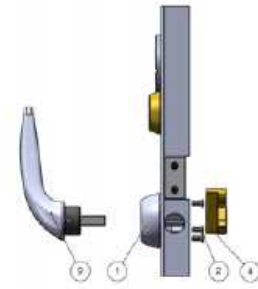
Available in Right Hand (4L55/066/01/S) and Left Hand (4L55/066/02/S) configurations the white powder coated handle and rose are manufactured to UK Home Office anti ligature requirements for cell locks. Tested to over 5 million operations the replacement lever handle kit allows users to upgrade existing products in order to meet the latest applicable standards.

Note: 3 fixings holes will need to be drilled and countersunk into the existing case. Details available upon request.

##### Standard Features

Each kit contains:

- Handle Rose
- 3 off M5x12 ST/ST fixing screws
- Bossless Brass follower
- Handle and spindle assembly



## Application:

### Purpose

To provide a means of identifying the position, within a frame, of a custodial doorset or gate.

### Product Codes

BS100/003/01/W DOOR SWITCH ASSY (INTERRUPTER DISC) MK3 SINGLE POSITION

BS100/003/02/W DOOR SWITCH ASSY (INTERRUPTER DISC) MK3 LOCK BACK

BS100/050/01/W BEAM SWITCH NO BRACKET

### Overview

The switch is designed for use with "Pivot" Hinge doors and gates commonly used in custodial environments in the UK and overseas. The primary function of the device is to provide accurate door in frame position sensing with low hysteresis. Accurate feedback to the access control system is essential to prevent un-planned locking out of frame and to ensure reliable auto-relock function when required.

### Standard Features

- IFM Position Feedback Sensor
- Dual handed brackets to suit left and right handed doorset applications
- Adjustable during installation to ensure accurate readings

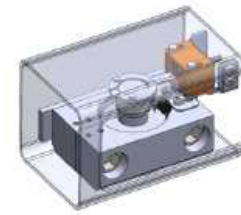
### Options

- Single position switch is used to monitor doors that are either held in the locked position or left open and unlocked.
- Lock back switch is used to monitor doors that are either locked in frame or locked in a lock back frame

## Finish:

### Materials and Finishes

- **Mounting bracket** – Zinc plated and passivated mild steel
- **Adjustable sensor plate** – Zinc plated and passivated mild steel
- **Sensor arm** – Zinc plated and passivated mild steel
- **Interrupter body** - aluminium



## Standards:

### Performance/Testing Criteria

Sensor compliant with EN 60947-5-2 and EN 55011 class B

## ARK55

## Adjustable Removable Keep

### Application:

#### Purpose

To be used in conjunction with slam action 4L type locking products to secure cell doors in the locked position whilst providing a means of quick release in the event of an emergency.

#### Product Codes

ARK55/001/01/W – Adjustable Removable Keep

#### Overview

The ARK55 is an adjustable and removable lock keep that can be used to set the door leaf to rebate gap to a minimum in order to prevent the creation of ligature points around the door leaf.

The ARK55 also features a rebated adjustable plate designed to prevent the door from bouncing back when it has been slammed closed with reasonable force.

Note: Tests conducted with the UK Home Office have determined that the maximum reasonable force is 2 metres per second closing speed.

#### Standard Features

- Adjustable keep plate to minimise door/rebate gaps
- Removable in an emergency
- Anti bounce rebated keep plate
- Rubber stops to prevent main bolt damage if extended during closing operation
- Can be retrofitted to existing frames
- Dual handed

#### Additional Items

- Spacer plates when extra clearance is required to maintain alignment with the lock
- Spacer block for locks mounted on the door leaf outer skin



### Finish:

#### Materials and Finishes

- **Main body** – mild steel powder coated
- **Adjustable plate** – mild steel zinc plated and passivated

#### Application:



#### Purpose

The Lock Interface Unit (LIU) is a PCB which is intended to be DIN rail mounted as supplied, that allows you to control and monitor the Chubb 3R63 Pass and 4L78 Cell Locks.

One of the PCB's is required per lock.

#### Product Item Codes

3R63/055/01/S – Lock Interface Unit (Pre 2014 installations)

3R63/055/02/S – Lock Interface Unit With Relays (Post 2014 installations)

#### Overview

The PCB's can be fitted singularly local to the door in a junction box or header, or for larger systems in a centrally located cabinet where a number of locks may be installed using a shared power supply.

There are 3 terminal blocks which allow the wiring from the Power Supply/Door Position Switch and the Control System, to interface with the Lock.

Using a rotary switch mounted on the PCB, the lock can be configured to either

- Auto-relock (If bolt withdrawn)
- Auto-relock (after specified time\*, no bolt withdrawal necessary)
- Require an external input to lock.

\* Relock time is selectable in 5s intervals up to 1 minute.

Interlocks can also be achieved by connecting together the required PCB's

#### Monitoring

The PCB has terminations to monitor the following;

- **Mechanical Lock (ILU)**

The ILU is connected directly from the lock to the monitoring terminal block TB2, there is no digital input to the processor. This is a changeover contact so either state can be monitored/displayed, mechanically locked or unlocked.

- **Electric Locking Unit (ELU)**

The ELU is the double solenoid unit within the lock, for which the PCB provides the pulse sequence to unlock. This then frees the bolt to allow withdrawal via handle operation. The sequence is;

- Solenoid A energized, 100mS Delay.
- Solenoid B energized, 400mS Delay.
- Solenoid A de-energized, 100mS Delay.
- Solenoid B de-energized.

- **Bolt Position**

This is also an open drain output which gives 0V when the bolt is extended. As soon as the bolt is withdrawn and the locks micro-switch activates this output goes to 24V.

- **Tamper Loop**

This is similar to the ILU in that it is directly connected from the lock to the monitoring terminal block TB2. There is no input to the PCB's processor.

- **Door Position**

An external door switch (i.e magnetic) is required to signal to the PCB that the door is in frame. This is used for auto relock operation.

# Secure Healthcare

3R63.055

Lock Interface Unit

**ASSA ABLOY**

### Application:

#### Purpose

Replacement tokens for use with the ATLAS® system.

#### Overview

For use with both MK1 and MK2 systems

#### Standard Features

- Ultrasonically welded glass filled nylon enclosure
- Brass wear resistant ferrule



## Application:

### Purpose

Replacement tokens for use with the ATLAS® system.

### Overview

For use with RFID based systems

### Standard Features

- Stainless Steel wear resistant enclosure



### Application:

A Chubb Locks Custodial Services Ltd observation cell door with two large vision panels of Home Office Type 1 specification laminated toughened glass/polycarbonate for maximum visibility, Type 1 Chubb 4L55 slam action cell lock with adjustable strike plate and continuous hinge.

### Specification:

#### Specifications, Performance Data & Tolerances

- Glazing Gasket Holding Room Side 1.5mm Maximum and Double Sided Adhesive to Prevent Pick
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg
- Home Office Approved Glazing Type 1 specification Laminated Toughened Glass/Polycarbonate

#### Door Frame

- 125x75x8mm Rolled Steel Angle Frame to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 50x25x3mm Rolled Hollow Section Steel Rebates to BS EN 10025:2004
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 CSK Sleeve Anchors 10no. minimum per frame
- Home Office Approved Adjustable Strike Plate ref ARK55

#### Door Leaf

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- Home Office Approved Glazing Type 1 specification Laminated Toughened Glass/Polycarbonate
- Glazing Frames External fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2
- Type 1 Chubb 4L55 Flush Mounted Mechanical Slam Action Cell Lock with Ligature-Resisting Handle

#### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 1130mm Wide x 2210mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 861mm Wide x 2072mm High Excluding Hinge(s) x 46mm Thick
- Frame Clearance 7mm Jambs, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge,



3mm head, 10mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd fire escape door for police station custody secure areas incorporating recessed pull handles and Type 2 Chubb 3G112 heavy duty mortice deadlock. Generally conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Generally Conforms to the Police Buildings Custody Design Guide
- Generally Conforms to the National Police Estates Group Best Practice Document
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

##### Door Frame

- 3mm thick Pressed Steel Profile Frame 125x69x50mm 19mm Rebate Electro-Zinc Coated to BS EN 10152:2009
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame
- Security Type Frame Grommets to Conceal Fixings

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Recessed Pull Handle Both Sides Cast Stainless Steel Grade 304

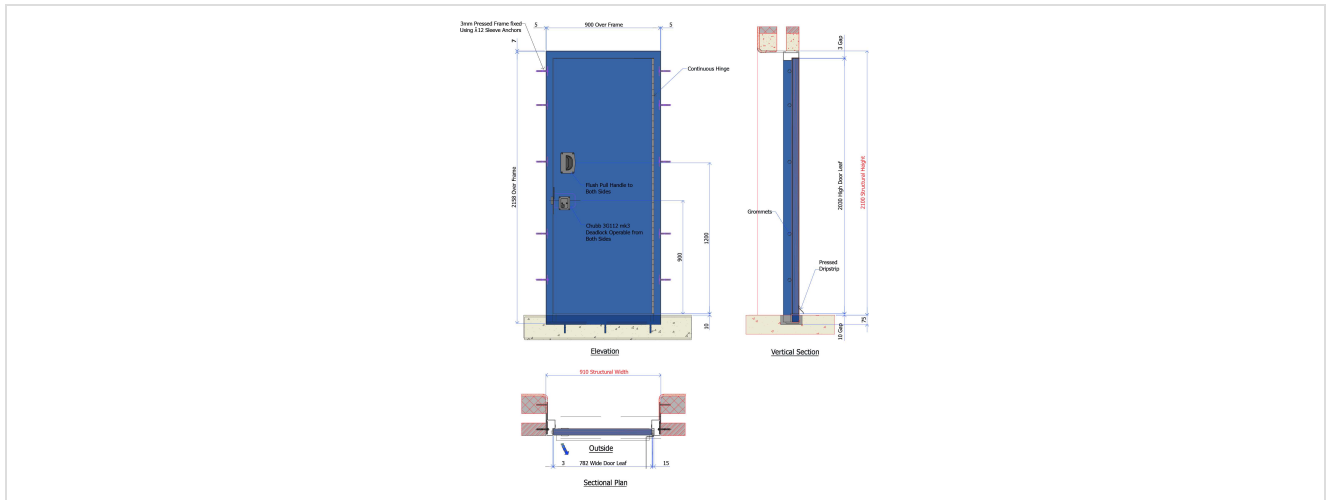
##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 782mm Wide x 2030mm High Excluding Hinge(s) x 48mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

## Technical Design:



## Application:

A Chubb Locks Custodial Services Ltd fire escape door for police station custody secure areas incorporating recessed pull handles and Type 2 Chubb 3G112 heavy duty mortice deadlock. Generally conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

## Specification:

### Specifications, Performance Data & Tolerances

- Generally Conforms to the Police Buildings Custody Design Guide
- Generally Conforms to the National Police Estates Group Best Practice Document
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

### Door Frame

- 3mm thick Pressed Steel Profile Frame 125x69x50mm 19mm Rebate Electro-Zinc Coated to BS EN 10152:2009
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame
- Security Type Frame Grommets to Conceal Fixings

### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Recessed Pull Handle Both Sides Cast Stainless Steel Grade 304

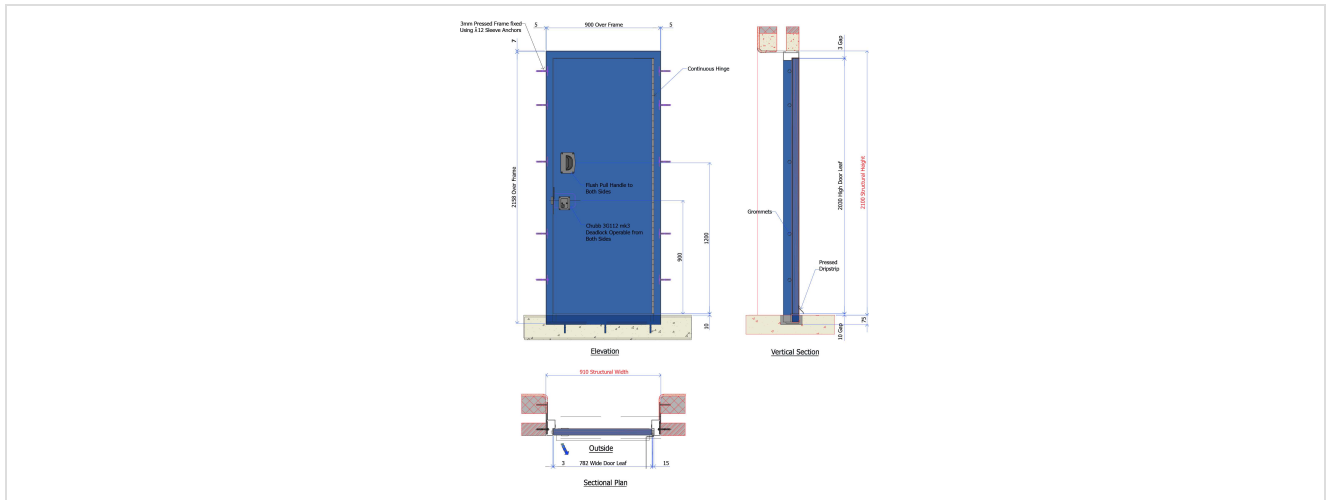
### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 782mm Wide x 2030mm High Excluding Hinge(s) x 48mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

## Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

## Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd door typically used for police station pass or exercise yard doors within custody. Incorporating a 150mm square laminated glass vision panel, recessed pull handle and Type 2 Chubb 3G112 heavy duty mortice deadlock. Generally conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Generally Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

##### Door Frame

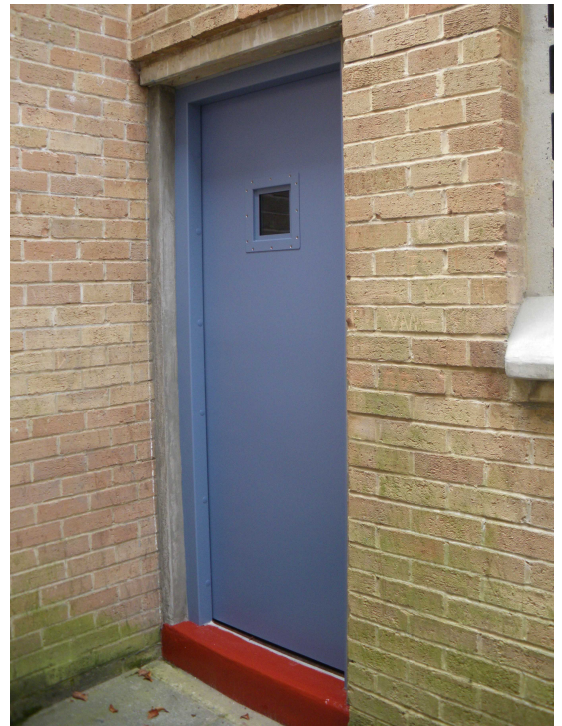
- 3mm thick Pressed Steel Profile Frame 125x69x50mm 19mm Rebate Electro-Zinc Coated to BS EN 10152:2009
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame
- Security Type Frame Grommets to Conceal Fixings

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 150mm Square Laminated Glass Vision Panel
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable One or Both Sides
- Recessed Pull Handle Both Sides Cast Stainless Steel Grade 304

##### Standard Dimensions

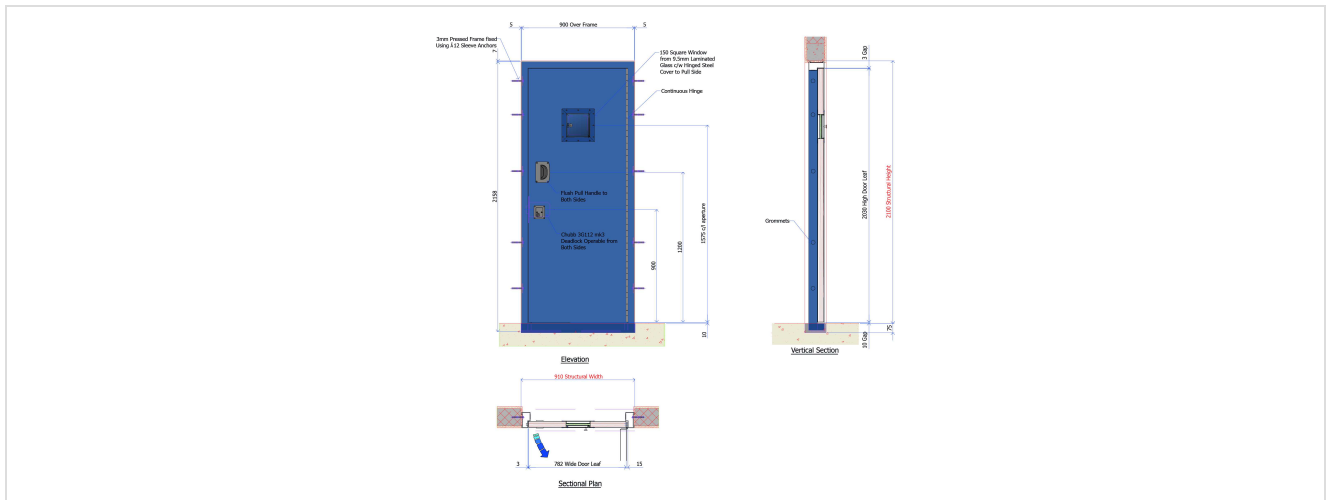
- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 782mm Wide x 2030mm High Excluding Hinge(s) x 48mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut



#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



### Application:

A Chubb Locks Custodial Services Ltd secure door for police station surgeon/medical rooms in custody incorporating a 150mm square laminated glass vision panel with privacy cover, recessed pull handle and Type 2 Chubb 3G112 heavy duty mortice deadlock. Generally conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Generally Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

#### Door Frame

- 3mm thick Pressed Steel Profile Frame 125x69x50mm 19mm Rebate Electro-Zinc Coated to BS EN 10152:2009
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame
- Security Type Frame Grommets to Conceal Fixings

#### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 150mm Square Laminated Glass Vision Panel with Hinged Steel Privacy Cover
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Recessed Pull Handle Both Sides Cast Stainless Steel Grade 304

#### Standard Dimensions

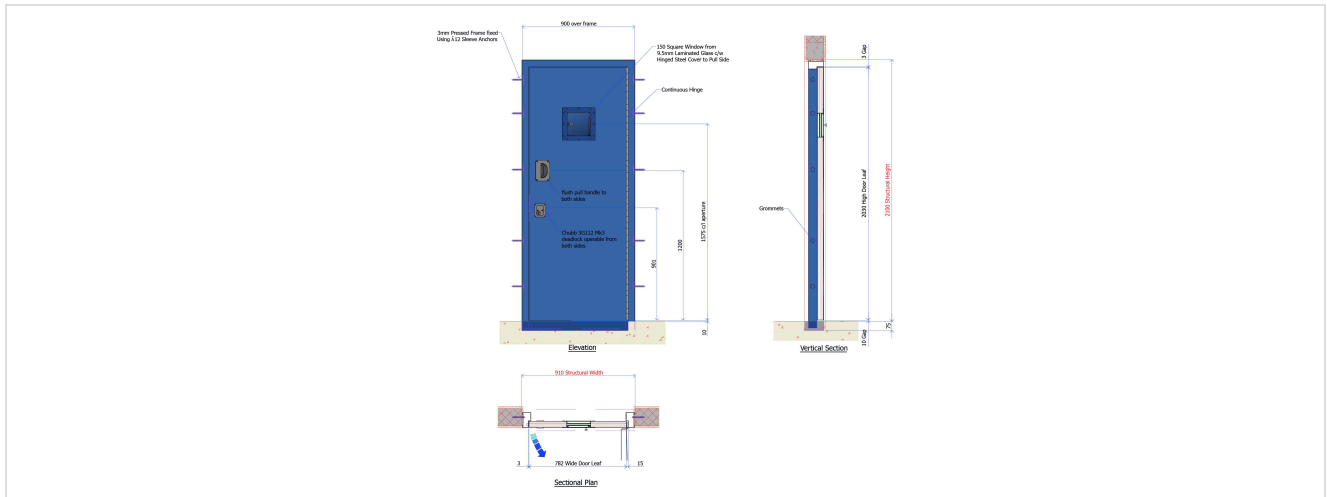
- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 782mm Wide x 2030mm High Excluding Hinge(s) x 48mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut



#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd steel fire door with 60 mins fire resistance integrity for use in police custody. The door incorporates a laminated glass vision panel, a Type 2 Chubb 3G112 heavy duty mortice deadlock & continuous hinge.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Fire Resistance 60 mins Integrity to BS EN 1634-1:2000
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

##### Door Frame

- 125x75x8mm Rolled Steel Angle Frame to BS EN 10025:2004
- 25x25x3mm Rolled Hollow Section Steel Rebates to BS EN 10025:2004
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame

##### Door Leaf

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- Ligature Resisting Continuous Hinge Capable of Supporting Weight of Door Leaf
- Fire Rated Security Laminated Glazing
- Intumescent Glazing Gasket
- Glazing Frame Fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2
- Type 2 Chubb 3G112 Heavy Duty Mortice Deadlock Operable Both Sides
- Recessed Pull Handle Both Sides Stainless Steel Grade 304

##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 1130mm Wide x 2210mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 861mm Wide x 2072mm High Excluding Hinge(s) x 46mm Thick
- Frame Clearance 7mm Jambs, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

# Secure Healthcare

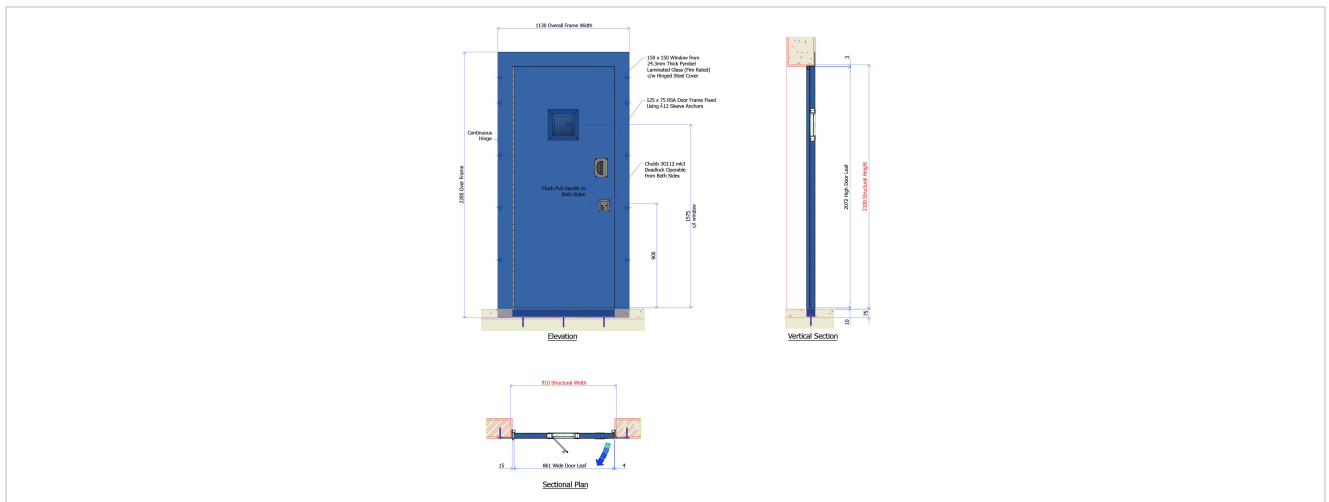
## 9D017B

### Steel Fire Door 60 min Integrity

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



### Application:

A Chubb Locks Custodial Services Ltd steel fully glazed corridor fire door & glazed side panel with 60 mins fire resistance integrity for use in police custody in place of traditional barred grilles. The door incorporates large toughened laminated glass vision panels and a Type 2 Chubb 3G112 heavy duty mortice deadlock.

### Specification:

#### Specifications, Performance Data & Tolerances

- Fire Resistance 60 mins Integrity to BS EN 1634-1:2000
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

#### Door Frame

- 100x60x4mm Hot Formed Rolled Hollow Section Steel Frame to BS EN 10025:2004
- 40x20mm Solid Section Steel Rebates to BS EN 10025:2004
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 12no. minimum per frame

#### Door Leaf

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 'CERTIFIRE' Approved Security Laminated Toughened Glazing
- Intumescent Glazing Gasket
- Glazing Frames Fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2
- Type 2 Chubb 3G112 Heavy Duty Mortice Deadlock Operable Both Sides
- Recessed Pull Handle Both Sides Stainless Steel Grade 304

#### Fixed Side Panel

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001



### Application:

A Chubb Locks Custodial Services Ltd steel CERTIFIRE approved door & frame service duct door with 60 mins fire resistance integrity typically located in-between cells. The door incorporates a Chubb 3G114 5 lever mortice deadlock, 3no. butt hinges and recessed pull handle outside. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- CERTIFIRE Approved Fire Resistance 60 mins Integrity to BS EN 1634-1:2000 and BS 476 part 22
- Typical Insulation Value 3.2W/m<sup>2</sup>k
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

#### Door Frame

- 1.5mm thick Pressed Steel Profile Frame 100x65x50mm 15mm Rebate Hot Dip Zinc Coated to BS EN 10346:2009
- 3 or 4 Sided Frame
- Knock-Down or Fully Welded Frame Joints
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings 7.5mm dia x 72mm CSK T30 Concrete Screws 8no. minimum per frame

#### Door Leaf

- 1.2mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- Pre-Expanded Small Cell Honeycomb Core
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 3no. per Leaf
- Chubb 3G114 5 Lever Mortice Lock Operable Outside Only

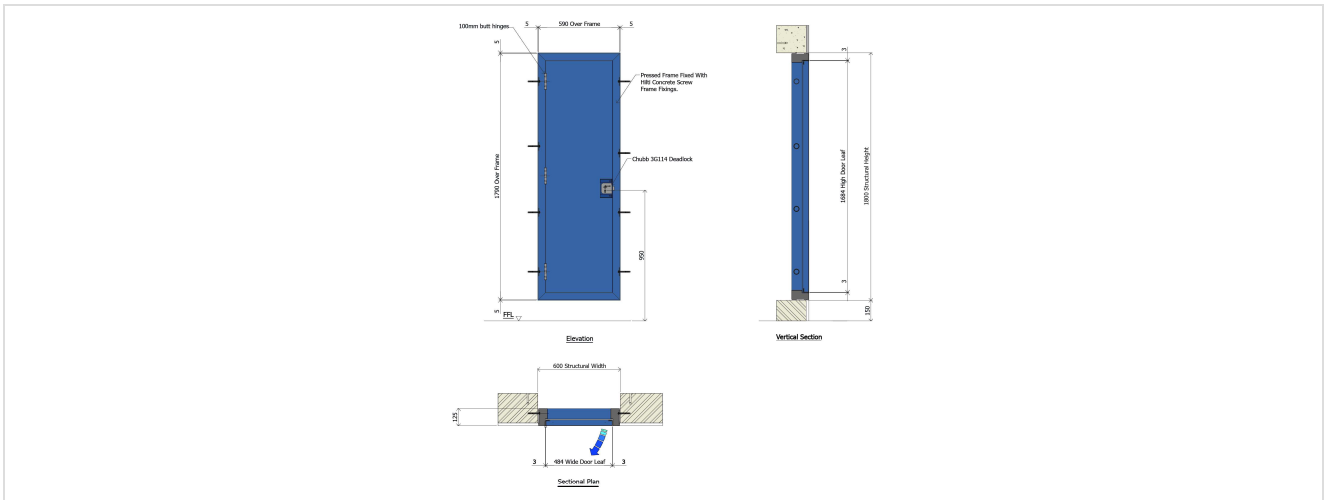
#### Standard Dimensions

- Structural Opening 600mm Wide x 1800mm High
- Overall Door Frame 590mm Wide x 1790mm High (4 Sided Frame) 1793mm (3 Sided Frame)
- Door Leaf 484mm Wide x 1684mm High 4 Sided Frame, 1730mm 3 Sided Frame x 44mm Thick
- Frame Clearance 5mm Jambs, 5mm Head & Bottom 4 Sided Frame, 7mm 3 Sided Frame
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head & Bottom 4 Sided Frame, 10mm undercut 3 Sided Frame

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



#### Application:

A Chubb Locks Custodial Services steel CERTIFIRE approved fire door & frame with 60 mins fire resistance integrity for use in prison wings. The door incorporates preparation for a NOMS approved deadlock, flush bolts & 3no. butt hinges per leaf.



#### Specification:

##### Specifications, Performance Data & Tolerances

- CERTIFIRE Approved Fire Resistance 60 mins Integrity to BS EN 1634-1:2000 and BS 476 part 22
- Typical Insulation Value 3.2W/m<sup>2</sup>k
- Hinges Tested to BS EN 1935:2002 Grade 13 200,000 Cycles 120kg Door Leaf

##### Door Frame

- 1.5mm thick Pressed Steel Profile Frame 100x65x50mm 15mm Rebate Hot Dip Zinc Coated to BS EN 10346:2009
- 3 Sided Frame with Low Profile Aluminium Threshold Plate
- Knock-Down Frame Joints
- Self-Adhesive Neoprene Smoke Seals
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings 7.5mm dia x 72mm CSK T30 Concrete Screws 10no. minimum per frame

##### Door Leafs

- 1.5mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- Reinforced Door Construction
- Pre-Expanded Small Cell Honeycomb Core
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 3no. per Leaf
- Outer Steel Lock Box Welded Into Internal Door Construction
- Active Door leaf Prepared for NOMS Approved Deadlock Supplied & Fitted By Others
- Inactive Leaf Fitted with Two Fire Rated Steel Flush Bolts

##### Standard Dimensions

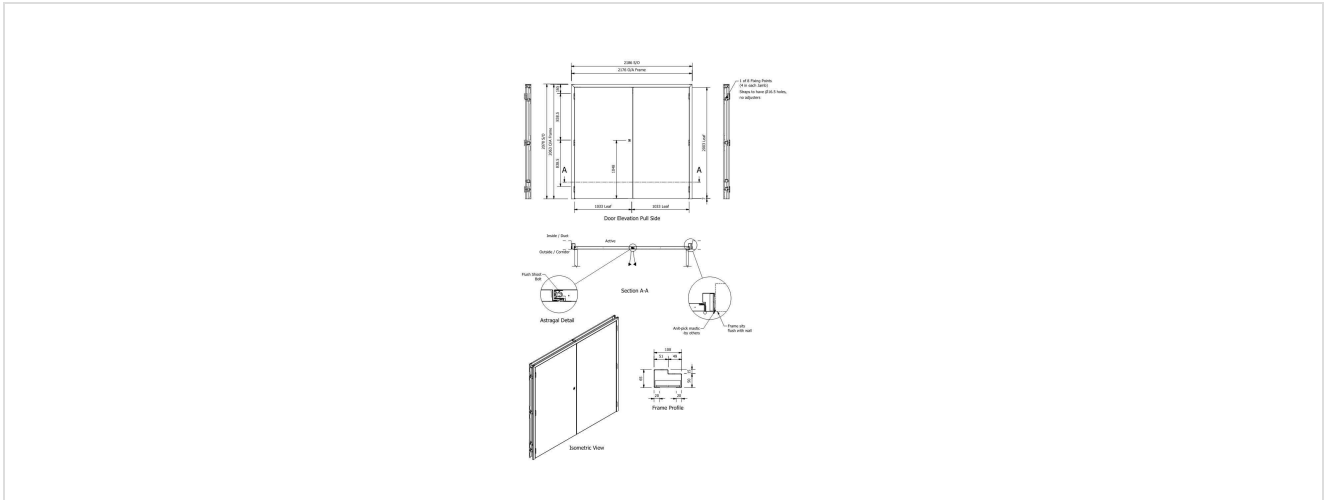
- Structural Opening 2186mm Wide x 2070mm High
- Overall Door Frame 2176mm Wide x 2063mm High
- Door Leaf 1033mm Wide x 2003mm High x 44mm Thick
- Frame Clearance 5mm Jamb, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 3mm hinge, 3mm head, 7mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004



## Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd solid timber door & frame personnel door with optional 60 mins fire resistance integrity typically used for staff offices, toilets etc. within custody. The door incorporates a Chubb 3J60 5 lever mortice deadlocking latch & knob furniture both sides and 4no. butt hinges. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

##### Door Frame

- Monolithic Hardwood Frame Section 3 Sides 125x75x50mm 25mm Rebate
- Sapele Hardwood Kiln Dried Moisture Content 10 -14% Density 640kg/m<sup>3</sup>
- Mortice & Tenon Joints
- Counterbored & Pelleted Fixings
- Frame Fixings 12mm dia x 100mm Sleeve Anchors 8no. minimum per frame

##### Door Leaf

- FD60 Certified 54mm thick Solid Timber Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles Average Density 460 - 500kg/m<sup>3</sup>
- Typically 9mm – 12mm Hardwood Lipping Bonded All 4 Edges Minimum Density 640kg/m<sup>3</sup> 15% MC
- Chubb 3J60 5 Lever Mortice Deadlocking latch with knob furniture both sides
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 4no. per Leaf

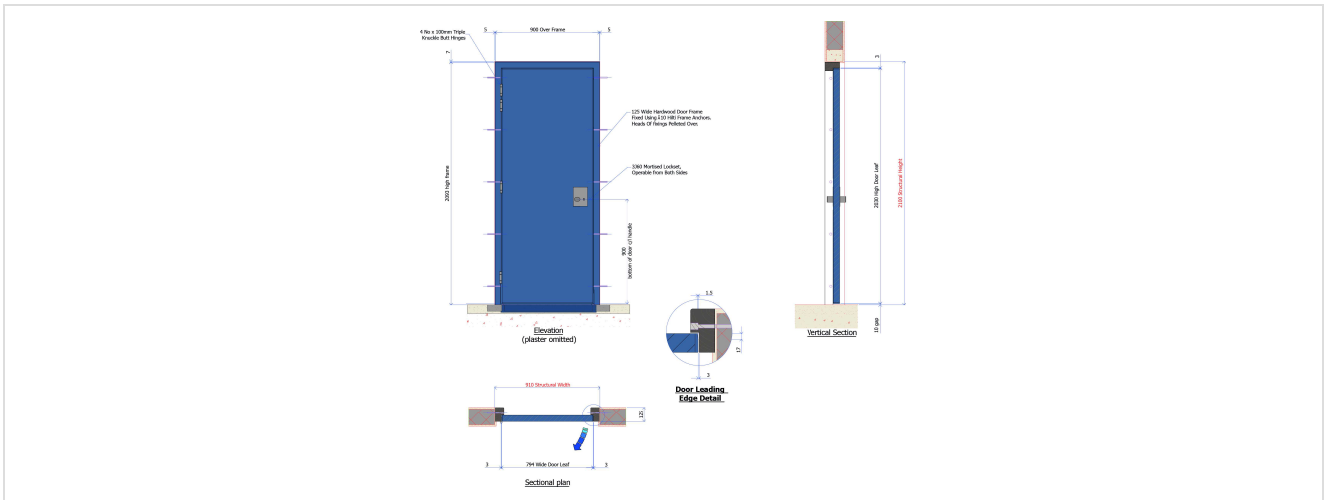
##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High
- Door Leaf 794mm Wide x 2030mm High Excluding Hinge(s) x 54mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut

#### Finish:

- Water Based Two Coat Prime Paint

## Technical Design:



### Application:

A Chubb Locks Custodial Services Ltd solid timber door & frame personnel door with optional 60 mins fire resistance integrity typically used for staff offices, toilets etc. within custody. The door incorporates a laminated glass vision panel, Chubb 3J60 5 lever mortice deadlocking latch & knob furniture both sides and 4no. butt hinges. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

#### Door Frame

- Monolithic Hardwood Frame Section 3 Sides 125x75x50mm 25mm Rebate
- Sapele Hardwood Kiln Dried Moisture Content 10 -14% Density 640kg/m<sup>3</sup>
- Mortice & Tenon Joints
- Counterbored & Pelleted Fixings
- Frame Fixings 12mm dia x 100mm Sleeve Anchors 8no. minimum per frame

#### Door Leaf

- FD60 Certified 54mm thick Solid Timber Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles Average Density 460 - 500kg/m<sup>3</sup>
- Typically 9mm – 12mm Hardwood Lipping Bonded All 4 Edges Minimum Density 640kg/m<sup>3</sup> 15% MC
- Chubb 3J60 5 Lever Mortice Deadlocking latch with knob furniture both sides
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 4no. per Leaf
- Laminated Glass vision Panel with Hardwood Beading

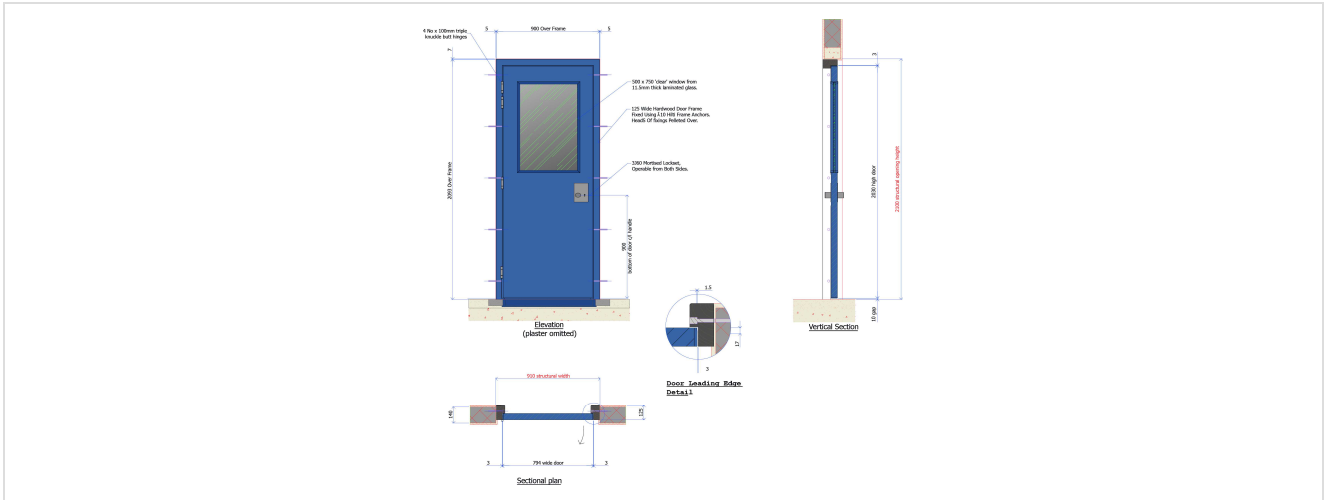
#### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High
- Door Leaf 794mm Wide x 2030mm High Excluding Hinge(s) x 54mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut

### Finish:

- Water Based Two Coat Prime Paint

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd prison manhole barred grille gate constructed to the standards & specifications required by the Prison Service. Typically used to secure manholes within prison grounds.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms To The Standards & Specifications Required By The Prison Service & Ministry of Justice
- 150mm Max Centres 30mm dia Bars
- 460mm Max Centres 65x12mm Flat Steel Horizontal Frame Sections

##### Gate Leaf

- 65x12mm Flat Steel Section Frame & Horizontals to BS EN 10025:2004
- 30mm diameter Steel Bars to BS EN 10025:2004
- Bars Continuously Welded at Each Intersection
- 150x12mm Flat Steel Section Leading Edge to BS EN 10025:2004 With Hasp & Staple preparation
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- 30mm diameter Full Length Solid Steel Hinge Pin
- Non-Removable Hinged Steel Lifting Handle
- Non-Removable Hinged Steel Gate Stay

##### Gate Frame

- 50x12mm Flat Steel Section Frame to BS EN 10025:2004
- Heavy Duty Fabricated Hasp & Staple Continuously Welded into Gate Frame
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Stitch Welded Fabrication
- Welding to BS EN 1011-2: 2001
- Floor Fixings 4no. M12 Chemical Resin Anchors

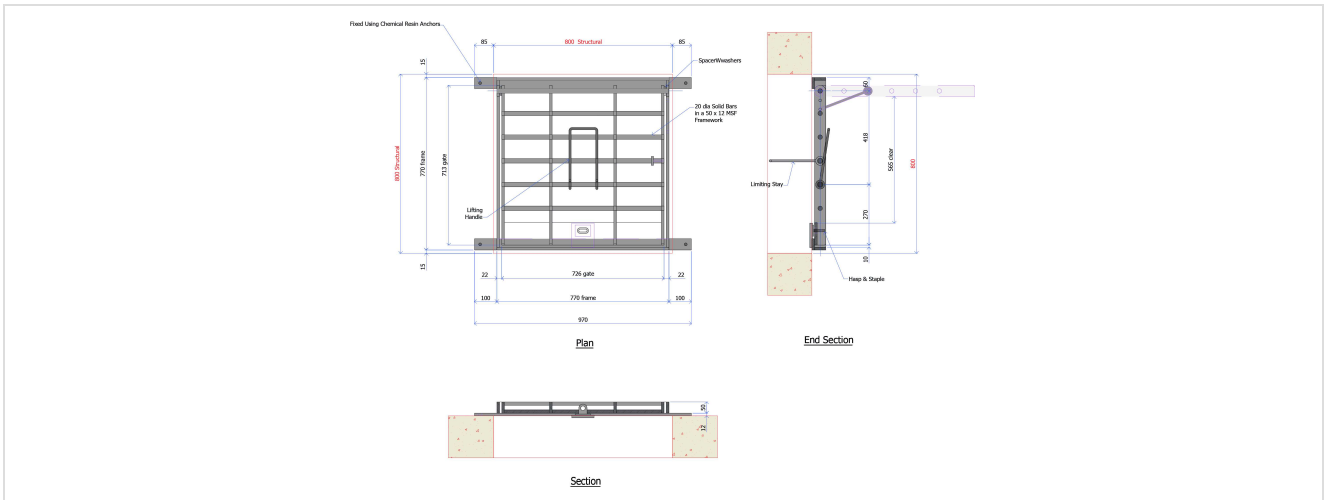
##### Standard Dimensions

- Structural Opening 800mm Wide x 800mm Long

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

## Technical Design:



### Application:

A Chubb Locks Custodial Services Ltd bolt down to the floor steel bed with rounded safety edges and welded restraint loops for use in secure hospitals.

### Specification:

#### Construction

- 3mm thick Cold Rolled Steel Mattress Base Electro-Zinc Coated to BS EN 10152:2009
- Holes Punched into Mattress Base for Ventilation
- Mattress Base Strengthened with Steel Central Brace
- 50mm diameter x 3mm Hot Rolled Hollow Section Steel Tube Safety Edge Bed Frame to BS EN 10025:2004
- 76mm diameter x 3mm Hot Rolled Hollow Section Steel Tube Leg Posts to BS EN 10025:2004
- Welded Restraint Loops 2no. Each Side Of Bed Frame
- 6mm thick Flat Circular Steel Floor Fixing Plates to BS EN 10025:2004
- Fully Welded Joints & Ground Smooth
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Fixings Hilti HSL-TZ CSK M8/20 CSK Sleeve Anchors 3no. minimum per Leg

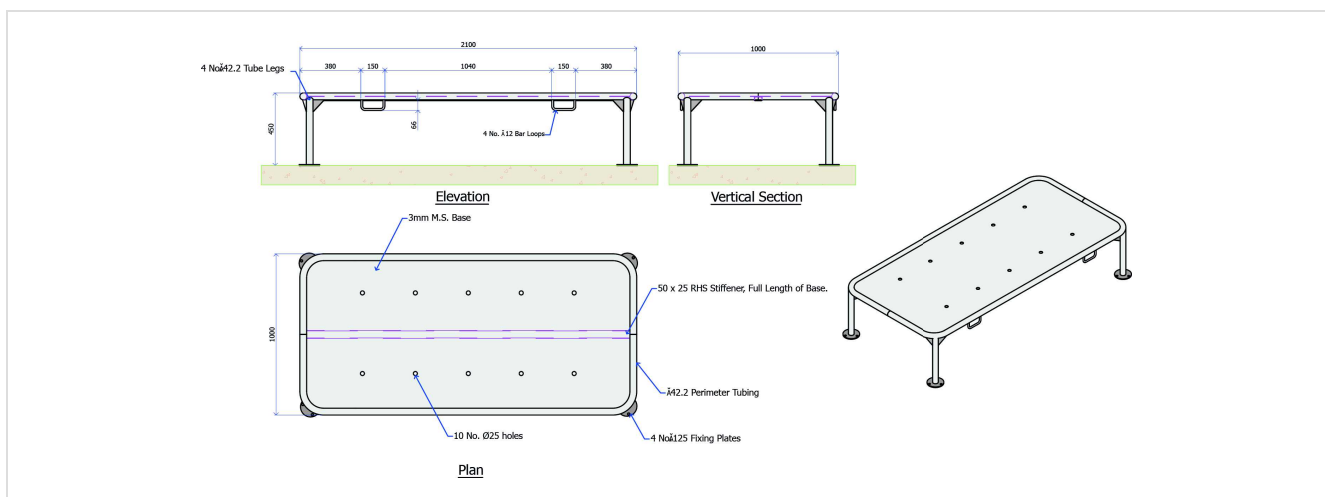
#### Standard Dimensions

- 1000mm Wide x 2100mm Long x 450mm High Overall

### Finish:

- Steel Frame Polyester Powder Coat Matt 30% Gloss Light Grey to BS EN 12206-1:2004

### Technical Design:





### Application:

A Chubb Locks Custodial Services Ltd steel cantilever prison cell bunk double with integral ladder.

### Specification:

#### Construction

- 3mm thick Pressed Cold Rolled Steel Mattress Base Electro-Zinc Coated to BS EN 10152:2009
- Folded Up Safety Edge to Hold Mattress In Place
- 5mm thick Flat Steel Cantilever Gusset Fixing Plates Each End to BS EN 10025:2004
- Integral Ladder At Bottom End Of Bunks
- All Edges De-Burred for Safety
- Stitch Welded Joints
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Fixings Hilti HSL-TZ CSK M8/20 Sleeve Anchors 5no. minimum Per Bunk With Knock On Armour Rings To Prevent Tamper

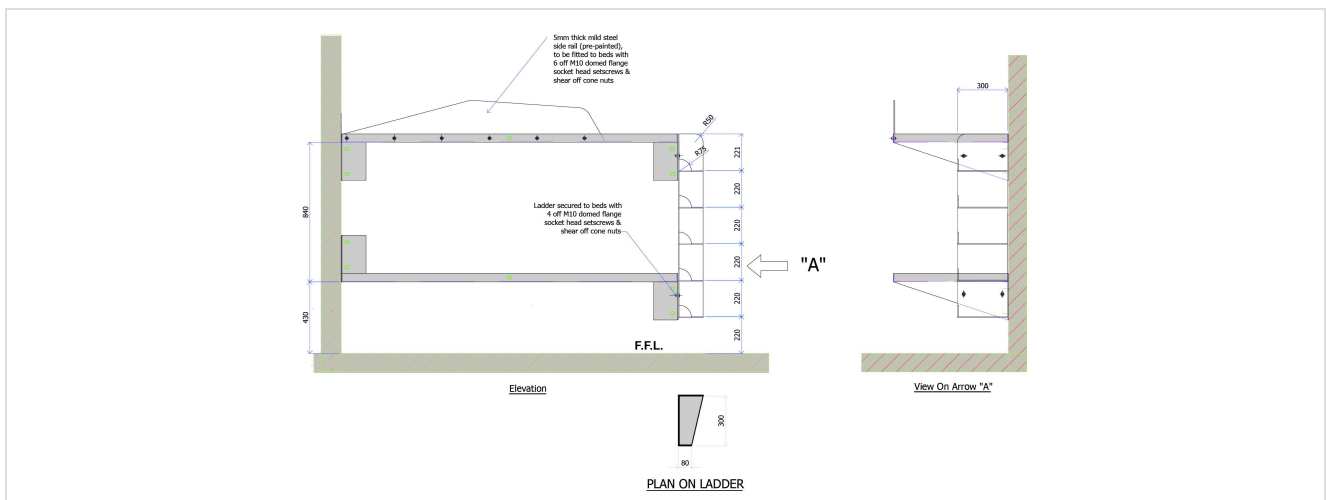
#### Standard Dimensions

- Each Bunk 700mm Wide x 2000mm Long Overall

### Finish:

- Polyester Powder Coat Matt 30% Gloss Light Grey to BS EN 12206-1:2004

### Technical Design:



### Application:

#### Purpose

To securely restrain prisoners under escort.

#### Overview

The basic wrist locking unit consists of a steel shackle sliding in a cast aluminium body similar to an open shackle padlock. When fully extended, the shackle can be made to hinge back to provide access for the wrist. Locking is achieved by rotating the magazine of a conventional AVA mechanism which drives ball bearings into recesses in the shackles. The 1K52 comprises of two such units attached through chain links and a swivel link to provide flexibility of movement.

#### Principle of operation

Handcuff units are key retaining in the unlocked condition. In use, shackles are closed onto the wrist, the key turned (anti-clockwise) and removed. Release is the reverse of the above procedure.



### Specification:

#### Standard features

- 9 or 10 slider AVA mechanism affording a very high number of differs and keys unique to this application viz:-  
The standard version has 9 sliders and a shorter than standard length bit; the special 'H' version has 10 sliders on a standard bit length, but with one thinned down wing – neither blank being available on the commercial market.  
NOTE: 'H' version is identified by step in the conical recess of the magazine cap.
- False notching and common internal profile on sliders to deter manipulative attack.
- Key retaining mechanism to ensure that handcuffs cannot be left unlocked with key removed
- Magazine retaining cap designed to be irremovable short of destroying the body.
- Deadlocking action and two-point locking on each shackle ensures that each product can withstand a minimum force of 5.0kN.
- Confusing key profile to deter attempts to sight-read the combination.
- 3 position shackles to accommodate a wide range of wrist sizes.
- Smooth finish and absence of sharp corners (particularly around wrist holes) to ensure that handcuffs do not cause injuries, even after long periods of restraint.
- Identification mark on key ('0' for 10 slider; '9' for 9 slider) which should face towards grubscrew in base when entering key to ensure correct alignment.  
NOTE: Key designed to enter one way round only.

#### Additional features

Three sizes off loose inserts (available as optional extras) to further reduce the opening for very small wrists. Reductions in normal diameter as follows:-

- No. 1 - 19.0mm

1K52

## ESCORT HANDCUFFS

- No. 2 - 14.5mm
- No.3 - 10.0mm

### Finish:

#### Materials & finishes

- **Shackle (castings), shackle ends and chain links** - Mild steel chrome plated
- **Swivel link** - Stainless Steel
- **Handcuff body** - Investment cast aluminium; anodised and spray painted Black
- **Magazine caps** - Mild steel, nickel plated
- **Magazine, sliders and keys** - Brass
- **Locking balls** - Phosphor bronze
- **Locking plunger** - Mild steel, zinc plated and passivated
- **Loose insert** - Investment cast aluminium, spray painted Black

# Secure Education

ASSA ABLOY High Security & Safety Group (HSS) is synonymous with excellence when it comes to high security solutions suitable for environment where there are children and young people who require treatment and care in total safety conditions. In this section, you will be able to examine our extensive product range, developed in close consultation with industry professionals and individually tailored to respond to the challenges faced by secure education facilities, the world over, every day.

## Application:

### Purpose

To provide secure locking of swinging doors or gates that can be unlocked from a remote location using third party security management systems (SMS) or by conventional key control. Designed to enable key and electric operation from one (3F11) or both (3F12) sides of the door.

### Overview

The 3F11/3F12 are mortice locks of robust construction based on the Chubb Locks Custodial Services large mortice footprint. The locks are designed to deadlock automatically and to be unlocked electrically with bolt withdrawal by a motorised mechanism.



## Specification:

### Unlocking

- **Electric Operation** – Remote switch activates the locking solenoid and the locking dead bolt is withdrawn by the motor. When fully withdrawn the locking deadbolt is latched in position ready for the relocking operation.
- **Mechanical Operation** – Locking mechanism is operated by a mechanical key that lifts the locking solenoid and withdraws the locking dead bolt. When fully withdrawn the locking dead bolt is latched in position ready for the relocking operation.

### Locking

- The lock automatically deadlocks when the door/gate is closed.

### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- Heavy duty gear and motor designed to operate under high load.
- Steel main bolt with tungsten carbide anti cut rollers.
- Solenoid electric locking latch.
- 5-detainer key override mechanism.
- Lock provides status monitoring of critical functions.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3F11 / 3F12 group of locks only.

### Performance/Testing/Criteria

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Motor/gearbox tested to a minimum of 1,000,000 cycles.
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.
- End load 8.0 kN
- Side Load 13.5 kN

### Additional Items

- Outer steel case (Gatebox) for use when fitted to a steel door

### Motorised Slam Action Lock

- Locking plate (Keep)
- Door cable (to connect the lock to door header / junction box terminations)
- Keys – silica brass (ordered separately to the lock)

#### Dimensions & Weights (Approx)

Case Height	207mm
Case Length	238mm
Case Thickness	29mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only approx)	10.5kg

Dimensioned customer drawings are available upon request.

#### Finish:

- Lock case - carbon steel electro-plated.
- Main bolts - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Escutcheons – Silica brass.
- Detainers and springs – Brass / phosphor Bronze.

#### Application:

##### Purpose

To provide secure locking of swinging cell/bedroom doors with a 'privacy' locking facility under operation by the occupant, from within the accommodation unit only. Locks detailed in this specification also include an integral Door In Frame Sensor (DIF) to indicate the door status when used in conjunction with a suitable DIF magnet.

##### Overview

The 3F65P is a mortice lock of robust construction based on the CLCS standard large mortice lock footprint with a main bolt that can be locked in the fully thrown or fully withdrawn position. Locking is achieved by a completely separate, interchangeable inner locking unit, operable from the outside only, the vertically sliding bolt of which, engages a recess in the main bolt.

A privacy facility is also provided allowing a secondary privacy bolt to be locked or unlocked by anti-ligature furniture from the inside of the accommodation. The privacy bolt can be overridden by a key holder by extending and then withdrawing the main bolt. A clutch mechanism fitted to the internal furniture ensures that staff members always remain in control of the privacy bolt.



#### Specification:

##### Principal of Operation

- **Locking / Unlocking of the Main Bolt –**  
Locking/unlocking is achieved by a partial turn of the key and handle operation to throw or withdraw the bolt. On withdrawing the key the main bolt will be automatically left locked in the position chosen (i.e. fully thrown or unlocked). Withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown.
- **Locking / Unlocking of the Privacy Bolt –** The occupant's 'Privacy' bolt can be locked / unlocked from within the accommodation unit via the anti-ligature furniture fitted to the inside of the door. However, the door cannot be opened from the inside if the main bolt is extended and secured in frame. In addition withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown. A cover plate can also be fitted to the external side of the door to provide emergency access to the privacy mechanism.

##### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- 32mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers.
- Independent 7-lever locking mechanism (ILU).
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Status monitoring outputs of (1) Door in Frame, (2) Main Bolt Extended (3) ILU Status
- Privacy locking / unlocking operable from within the

### Morticed Mechanical Privacy Lock - Monitored

accommodation via door mounted furniture or via override by the main bolt or by removing the external cover plate.

#### Performance/Testing/Standards

- Mechanical locking mechanism tested to a minimum of 100,000 operations
- Main bolt handle mechanism tested to a minimum of 300,000 bolt operations
- Saw attack on the main bolt 12 hours
- End load 13.5 kN
- Side Load 25 kN

#### Additional Items

- Handle and escutcheon kits (not supplied with the lock). Kits can be supplied to suit various functional requirements, door thicknesses and aesthetic requirements.
- Frame mounted magnet assembly (to operate with the integral DIF sensor)
- Locking plate with integral magnet assembly.
- Gate Box
- Door cable
- Reinforcing plates for use on wooden doors
- Privacy Cylinder for corridor side of door

#### Dimensions & Weights

Case Height	207mm
Case Length	226mm
Case Thickness	29mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	11kg

#### Finish:

- Lock case – carbon steel electro-plated and powder coated exterior.
- Main bolt – carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel.
- Levers and springs – Brass / phosphor Bronze.



## Application:

### Purpose

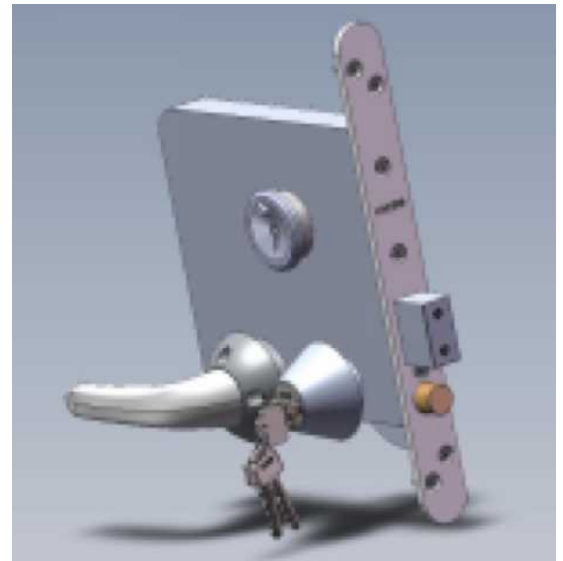
To provide secure locking of swinging cell/bedroom doors with a 'privacy' locking facility under operation by the occupant.

### Overview

The 3F65P is a mortice lock of robust construction based on the CLCS standard large mortice lock footprint with a main bolt that can be locked in the fully thrown or fully withdrawn position. Locking is achieved by a completely separate, interchangeable) inner locking unit, operable from the outside only, the vertically sliding bolt of which, engages a recess in the main bolt.

A Privacy Key Facility is also provided allowing a secondary privacy bolt to be locked or unlocked by a key operated rim cylinder lock on the outside and anti-ligature furniture on the inside. The Privacy bolt can be overridden by extending and then withdrawing the main bolt and a clutch mechanism ensures that staff remain in control. The cylinder is also master keyed to provide staff control of the privacy mechanism.

- **Locking unit** – The locking unit is a self-contained 7-lever lock, independently mounted on pillars, and can be quickly removed and replaced by another such complete unit, when a change of combination is necessary. The bolt of this unit shoots downwards into a cutaway formation on the main bolt and retains it in the withdrawn or fully thrown position.
- **Main Bolt** – Locking/unlocking is achieved by a partial of the key and handle operation to throw or withdraw the bolt. On withdrawing the key the main bolt will be automatically left locked in the position chosen (i.e. fully thrown or unlocked). Withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown.
- **Under Occupant's Key** – The occupant's 'Privacy' bolt can be locked/unlocked from outside by a keyed cylinder lock or from inside by a handle or knob.



## Standards:

- Mechanical locking mechanism tested to a minimum of 100,000 operations
- Handle mechanism tested to a minimum of 300,000 bolt operations
- Privacy cylinder tested to a minimum of 100,000 operations
- Saw attack on the main bolt 12 hours
- End load 13.5 kN
- Side Load 25 kN

## Specification:

### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 32mm throw.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Privacy locking via pin tumbler cylinder

### Additional Features

- External lever handle or dial knob options for staff operation.

### Morticed Mechanical Privacy Lock

#### Additional Items

- Outer steel case (Gatebox) when fitted to a steel door
- Locking plate (Keep)

#### Dimensions & Weights

Case Height	207mm
Case Length	226mm
Case Thickness	29mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	11kg

#### Finish:

- Lock case – carbon steel electro-plated and powder coated exterior.
- Main bolt – carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

### Application:

#### Purpose

To provide secure locking of swinging cell doors using third party security management systems (SMS) or conventional key control. The lock can be configured to provide a softer aesthetic appearance without reducing security.

#### Product Codes

- 3F51/002/01/S LOCK ASSY RIGHT HAND REVERSE
- 3F51/002/02/S LOCK ASSY LEFT HAND REVERSE
- 3F51/002/03/S LOCK ASSY RHR ANTI LIG DOME HDLS
- 3F51/002/04/S LOCK ASSY LHR ANTI LIG DOME HDLS

#### Overview

The 3F51 is a mortice lock of robust construction. The main bolt is a sprung latch providing a throw of 25mm, secure locking is achieved by two independent methods:

**Electrical Mode:** Locking/unlocking by 24 volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when closing the door.

**Manual Mode:** Locking/unlocking achieved using conventional (mechanical) key. Bolt withdrawal by handle, which should also be used when closing the door. Key operates from corridor side only.

**Manual Override:** In the event of power or communication failure an override key is used to disable electric locking function.

The lock will operate if slammed to shut, however, we recommend that in normal operation the handle is used to withdraw the bolt when closing.

#### Standard Features

- Solid Case Technology - lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers and 25mm throw.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.
- Unique dual solenoid electric locking latch.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.

### Specification:

#### Dimensions & Weights

- Case Height – 206 mm
- Case Length – 229 mm
- Case Thickness – 29 mm
- Dead bolt throw – 25 mm
- Dead bolt depth – 45 mm
- Dead bolt thickness – 22 mm
- Weight (lock only) – 12.5Kg

All dimensions are approximate – customer drawing available upon request.



### Standards:

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Saw attack on the main bolt 12 hours.
- Side and End Load 13.5KN
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.

### Finish:

#### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - carbon steel electro-plated.
- **Main bolt follower** - high tensile brass.
- **Keys** - hardened steel.
- **Levers and springs** - Brass/phosphor bronze.

#### Options

- Various furniture options are available upon request

#### Additional Items

- Gatebox
- Lock interface unit for operation with commercial access control systems
- Door cable

### Application:

#### Purpose

To provide secure locking of swinging cell doors, under conventional key control where automatic deadlocking is a requirement.

#### Product Codes

3F56/002/01/S - RHOI STD ILU to suit T handle  
3F56/002/03/S - LHOI STD ILU to suit T handle  
3F56/002/05/S - RHOI STD ILU to suit lever handle  
3F56/002/06/S - RHOI STD ILU to suit lever handle  
3F56/002/07/S - LHOI STD ILU to suit lever handle  
3F56/002/08/S - LHOI STD ILU to suit lever handle  
3F56/003/01/S - RHOI SUITED ILU to suit lever handle  
3F56/003/02/S - LHOI SUITED ILU to suit lever handle  
3F56/003/03/S - RHOI SUITED ILU to suit lever handle  
3F56/003/04/S - LHOI SUITED ILU to suit lever handle

#### Overview

The 3F56 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. The main bolt is automatically extended providing a 32mm throw and deadlocked on closure of the door (4.8mm gap maximum - forend to mating surface).

Secure unlocking / locking is achieved as follows:

Unlocking is achieved by a partial turn of the servant key which lifts the internal blocking mechanism enabling the withdrawal of the main bolt by the handle. The bolt is then retained automatically when fully retracted and the door is out of frame.

Locking is achieved automatically; on closure of the door the brass snib bolt is depressed on contact with the strike plate mounted to the frame, this then releases the main bolt. Deadlocking occurs when the main bolt is fully extended allowing the internal blocking mechanism to engage.

Use of the master key (by rotating the top of the key towards the front of the lockcase when the ILU bolt is in the locked position) will further extend the ILU bolt which disables use of the servant key. The servant key can be re enabled by rotating the top of the master key towards the rear of the lockcase.

#### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with integral passive magnet, carbide anti-cutting rollers, and 32mm throw.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.



### Standards:

- Mechanical locking mechanism tested to a minimum of 100,000 operations
- Handle mechanism tested to a minimum of 300,000 bolt operations
- Saw attack on the main bolt 12 hours
- End load 13.5 KN
- Side Load 25 KN

### Specification:

#### Lock Dimensions (Approx)

- Case Height - 207mm
- Case Length - 220mm
- Case Thickness - 29mm

## 3F56

### Heavy duty morticed mechanical slam action cell lock

- Bolt Throw – 32mm
- Bolt Depth – 45mm
- Bolt Thickness – 22mm

Dimensioned customer drawings are available upon request.

#### Finish:

##### Materials and Finishes

- Lock case – Carbon steel electro-plated.
- Main bolt – Carbon steel electro-plated.
- Main bolt follower - High tensile brass.
- Levers and springs – Brass / phosphor Bronze.

##### Additional Items

- Keys – hardened steel (ordered separately to the lock)
- 3F56/052/01/S – Lever Handle Furniture Kit RH
- 3F56/052/02/S – Lever Handle Furniture Kit LH
- Other furniture options available upon request

## Application:

### Purpose

To provide secure locking of swinging cell doors, under conventional key control where a lock back facility is a requirement. The lock can be configured to provide a softer aesthetic appearance without reducing security.

### Product Codes

3F65/002/01/S LOCK ASSY RIGHT HAND REVERSE

3F65/002/02/S LOCK ASSY LEFT HAND REVERSE

### Overview

The 3F65 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. The main bolt is an un-sprung rectangular deadbolt providing a throw of 32mm.

Locking/unlocking is achieved by a full turn of the key allowing the handle to throw or withdraw the bolt. When the key is withdrawn the main bolt can be left in two positions - fully thrown (ie secure when door in frame) or bolt fully withdrawn and locked back.

### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 32mm throw.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist interference via the keyhole.
- Escutcheon designed to give positive key alignment.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.

### Additional Features

- Optional external status indicator.
- Can be keyed to the existing CLCS 4L range of cell locks.
- Interchangeable mechanical inner locking unit to enable re-coding.
- Can be configured to differ, to pass or under a master key scheme.



## Standards:

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Saw attack on the main bolt 12 hours.
- Side and End Load 13.5KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

## Specification:

### Dimensions & Weights

- **Case Height** – 206 mm
- **Case Length** – 229 mm
- **Case Thickness** – 29 mm
- **Dead bolt throw** – 25 mm
- **Dead bolt depth** – 45 mm
- **Dead bolt thickness** – 22 mm
- **Weight** (lock only) – 12.5Kg

All dimensions are approximate – customer drawing available upon request.

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - carbon steel electro-plated.
- **Main bolt follower** - high tensile brass.
- **Keys** - hardened steel.
- **Levers and springs** - Brass/phosphor bronze.

##### Additional Items

- Range of furniture options available.
- Range of fixings including gatebox, locking plate and keep.



### Application:



#### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging cell doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile or as an option Chubb 7 lever master keyed locking unit. The key is supplied to allow the lock to be mechanically secured and monitored.

#### Overview

The 3L217 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended and door inframe. The latch bolt cannot be electrically locked back when fully withdrawn.

#### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is energised +24 Volt DC to engage. Unlocking is achieved by de-energising the 24 Volt DC supply from an external source to lift the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the locked state when the door is in frame.

#### Manual Override

The lock is not provided with a manual override. If power fails the locking solenoid will automatically disengage.

#### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever locking mechanism.
- Locks can be keyed alike or keyed to differ
- Factory restricted key section.
- Status output – secure / insecure, door inframe and mechanical locking status.
- Pick resistant mechanism with protective curtain.

#### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).
- This lock can be supplied in groups keyed alike.
- Master keyed option using Chubb 7 lever mechanism.

### Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2

### Specification:

#### Materials and Finishes

3L217.001

## Mortice electro-mechanical cell lock with DIF sensor

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate to CM5 M1047
- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Knob & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 - Polished and plated.
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated to CM5 M1047
- **N35 Magnet** - BN017A 6MM X 25MM
- **Lock Installation Cable** - 3 or 10 metre (or custom length to suit)

### Application:

#### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging cell doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile. The key is supplied to enable an override (unlocking) for the electric locking if power fails.

Note (1): The Chubb 5 lever mechanism fitted to the 3L215 can not be used to mechanically lock the latch bolt – it can only be used to unlock the electric locking mechanism.

Note (2): The Chubb 5 lever mechanism fitted to the 3L215 can not be master keyed. Please contact CLCS if a master key mechanism is required as an alternative product is available.

Note (3): The latch bolt can only be withdrawn by operating the handle mechanism.

#### Overview

The 3L215 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended. The latch bolt cannot be electrically locked back when fully withdrawn.

#### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is engaged. Unlocking is achieved by 24 Volt DC supply from an external source to energise (lift) the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the unlocked state when the door is out of frame.

#### Manual Override

In the event of power or communication failure an override key is used to override the solenoid locking bolt.

#### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever override mechanism.
- Factory restricted key section.
- Status output – secure / insecure
- Pick resistant mechanism with protective curtain.

#### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).

#### Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2

### Mortice electro-mechanical cell lock with DIF sensor

- This lock can be supplied in groups keyed alike.

#### Finish:

##### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

##### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Handle & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 – Chrome Silver Painted
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated with Triklad high performance Trivalent Coating
- **Lock Installation Cable** - Standard 3 or 10 metre pre wired cable or site cable available upon request.

### Application:

#### Purpose

Latch bolt lock to provide electric and mechanical locking / unlocking of swinging cell doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid and a Chubb 7 lever mechanical mechanism can also be used to both lock and unlock the 3L218. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked either mechanically or electrically.

#### Overview

The 3L218 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended and the door is in frame. The latch bolt cannot be locked back when fully withdrawn.

#### Electrical Mode

Locking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is engaged. Unlocking is achieved by 24 Volt DC supply from an external source to energise (lift) the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the unlocked state when the door is out of frame.

#### Mechanical Mode

Mechanical dead locking is achieved using a conventional Chubb mechanical key and 7 lever mechanical mechanism to engage a secondary deadlock when the main bolt is fully extended. Electric unlocking cannot be achieved while the mechanical locking mechanism is engaged.

#### Manual Override

In the event of power or communication failure an override key is used to override the solenoid locking bolt. Both keys, Mechanical and Override, are supplied to a different combination and are clearly identified.

#### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Chubb 7-lever override and mechanical deadlock mechanism.
- Factory restricted key section.
- 1 metre fly lead without connected socket
- Status output – secure / insecure / deadlocked

#### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock as standard).
- Door cable available in 3M or 10M lengths (not supplied with lock).
- This lock can be supplied in groups keyed alike.

### Standards:

- Mechanical override mechanism tested to a minimum of 100,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2

### Finish:

#### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate with Triklad high performance

### Mortice electro-mechanical cell lock with DIF sensor

Trivalent Coating

- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Keys** - Mild Steel to BS EN10083 – C22E Natural

#### **Additional Items / Furniture**

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Handle & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 – Chrome Silver Painted
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated with Triklad high performance Trivalent Coating
- **Lock Installation Cable** - 3 or 10 metre pre wired cable or site cable available upon request.

## Application:

### Purpose

To provide secure locking of swinging pass doors controlled by Atlas® LCMS software or conventional key control. Atlas® LCMS software provides a range of operating functionality which can be configured to suit each site.

### Overview

The 3A63 is a mortice lock of robust construction based on the Chubb Locks Custodial Services standard large mortice footprint. The main bolt extends by 25mm and is operated turning the handle to both lock and unlock. The lock is designed to accept inputs from tokens and can be programmed to enable a range of time / date driven access permissions. Locks can also be controlled remotely from a control room environment.

- **Electronic Mode** – Deadlocking is achieved by closing the door and turning the handle to fully extend the bolt. Unlocking is achieved by inserting an electronic token (key) into the lock which, after authentication, an input signal is provided to lift the blocking device and withdrawing the bolt via the handle. The lock can also be configured to provide features such as auto-relock, door insecure time out etc. Additionally remote operation can be achieved via Atlas® Client / Mimic PC.
- **Manual Mode** – Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle. Key operates from both sides of the door
- **Manual Override** – In the event of power or communication failure an override key is used to lift the electric locking unit. Both keys are supplied to a different combination and are clearly identified.



## Specification:

### Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 25mm throw.
- Solenoid electric locking latch.
- Visual lock status indication via LED.
- Intelligent lock which will continue to operate in the absence of LCMS server.
- Independent 8-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.

### Performance

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Handle mechanism tested to a minimum of 1,000,000 bolt operations
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.

## 3A63

## ATLAS® Electronic Pass Lock

- Nominal operating current 500mA .
- Saw attack 12 hours
- End load 13.5 kN
- Side Load 25 kN

### Additional Features

- Robust handle and escutcheon design.
- T-handle
- Range of fixings including gate box, transition plates with fixings and locking plate.
- Interchangeable mechanical inner locking unit to enable re-coding.
- This lock is not available under a master key system.

### Total Range

- The lock is available in left or right hand variants and can be fitted to steel or wooden doors.

### Dimensions & Weights

Case Height	208mm
Case Length	239mm
Case Thickness	29mm
Bolt Throw	25mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	10.4kg

### Finish:

- Lock case - carbon steel electro-plated.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.



### Application:

#### Purpose

To provide secure deadlocking of swinging doors or gates where an enhanced level of security is necessary. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes.

#### Overview

The 3G112 Mark 1 is a mortice deadlock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. The mechanical deadbolt provides an overall throw of 34mm which comprises an initial throw of 17mm and a second throw of a further 17mm.

The lock is designed so that the doubles key will perform both the first and second throw, while the singles key will operate the first throw only.

The lock is operable from both sides with separate key holes for each key type. The escutcheon is designed to prevent the incorrect key being inserted into the lock.

Secure locking is achieved by two independent keys:

#### Singles Key – Operates first throw only

- Locking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will extend the bolt to its first position.
- Unlocking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will withdraw the bolt.

**Note** the singles key will not operate the second (doubles) throw.

#### Doubles Key – Operates first and second throw

- Locking, by inserting the doubles key into the offset keyhole and rotating fully the bolt can be thrown to its first position. A further rotation of the key will throw the bolt to its second position, preventing the servant key operating the lock.
- Unlocking is achieved by inserting the doubles key into the offset keyhole and rotating fully. This action will withdraw the bolt to either enable operation under servant key or by a further rotation to fully withdraw the bolt to unlock.

**Note** the doubles key will operate both throws.



### Specification:

#### Features

- Composite deadbolt, with carbide anti-cutting rollers and 34mm throw.
- 16 lever highly durable mechanism.
- Independent single and double actions.
- Low friction key journals.
- Lever arrangement designed to provide extended product life.
- Dedicated key profiles.
- Escutcheon designed to give positive key alignment.
- Security fixings to prevent unauthorised removal.

#### Performance

- Lock tested to a minimum of 500,000 key operations.

## 3G112 Mark 1

### Morticed Deadlock – Double Action

- Saw attack 12 hours
- End load 13.5kN
- Side Load 13.5 kN

#### Additional Features

- Suitable for external and internal use.
- Range of fixings including reinforcing plates and locking plates.
- Available in alternative furniture finishes on request.
- Can be keyed with 3M56 Mark 1 Hook Bolt
- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Rebate kit available for wooden door applications
- Monitored versions available with micro-switch sensing of bolt position.
- Single sided version available on request.
- Singles key operation only version available on request.
- Doubles key operation only version available on request.

#### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** Wooden Doors: This lock should be fitted to a wooden door with a minimum thickness of 54mm. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase height	114mm
Lockcase width	21mm
Weight (lock only)	2.1kg

#### Finish:

- Lock case – carbon steel electro-plated.
- Bolt – stainless steel and brass composite.
- Escutcheons – silica brass
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze

### Application:

#### Purpose

To provide secure deadlocking of swinging doors or gates where an enhanced level of security is necessary. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes.

#### Overview

The 3G112 Mark 2 is a mortice deadlock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. The mechanical deadbolt provides an overall throw of 34mm which comprises an initial throw of 17mm and a second throw of a further 17mm.

The lock provides two independent bolt throws where each throw is operated by a unique key. The keys are designed so that neither key will perform the function of the other key.

The lock is operable from both sides with separate key holes for each key type. The escutcheon is designed to prevent the wrong key being inserted into the lock.

Secure locking is achieved by two independent keys:

#### Singles Key – Operates first throw only

- Locking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will extend the bolt to its first position.
- Unlocking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will withdraw the bolt.

**Note** the Singles key will not operate the second (Doubles) throw.

#### Doubles Key – Operates second throw only

- Locking, providing the singles key has been used to operate the first throw, the doubles key can be utilised. By inserting the doubles key into the offset keyhole and rotating fully the bolt will be thrown to its maximum extent and preventing operation by the servant key.
- Unlocking is achieved by inserting the doubles key into the offset keyhole and rotating fully, this action will withdraw the bolt to enable operation under servant key.

**Note** the Doubles key will not operate the first (Single) throw.



### Specification:

#### Features

- Composite deadbolt, with carbide anti-cutting rollers and 34mm throw.
- 16 lever highly durable mechanism.
- Independent single and double actions.
- Low friction key journals.
- Lever arrangement designed to provide extended product life.
- Dedicated key profiles.
- Escutcheon designed to give positive key alignment.
- Security fixings to prevent unauthorised removal.

#### Performance

## 3G112 Mark 2

### Morticed Deadlock – Double Action

- Lock tested to a minimum of 500,000 key operations.
- Saw attack 12 hours
- End load 13.5kN
- Side Load 13.5 kN

#### Additional Features

- Suitable for external and internal use.
- Range of fixings including reinforcing plates and locking plates.
- Available in alternative furniture finishes on request.
- Can be keyed with 3M56 Mark 2 Hook Bolt
- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Rebate kit available for wooden door applications
- Monitored versions available with micro-switch sensing of bolt position.
- Single sided version available on request.
- Singles key action only, version available on request.

#### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** Wooden Doors: This lock should be fitted to a wooden door with a minimum thickness of 54mm. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase height	114mm
Lockcase width	21mm
Weight (lock only)	2.1kg

#### Finish:

- Lock case - carbon steel electro-plated.
- Bolt – stainless steel and brass composite.
- Escutcheons – silica brass
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze.

## 3M56 Mark 3

## Morticed Hookbolt Lock – Single Action

### Application:

#### Purpose

To provide secure deadlocking of sliding doors or gates where an enhanced level of security is necessary. This lock is specifically designed for very high use applications; typically securing internal doors and main access routes.

#### Overview

The 3M56 Mark 3 is a mortice hook bolt lock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. Twin locking laminated and hardened hooks are used to provide positive engagement in the frame with maximum strength.

The lock provides deadlocking operated by a unique key profile to the Mark 3 range of locks and will not operate Mark 1 or Mark 2 lock variants.

The lock is operable from both sides and the escutcheon is designed to allow only the correct key profile being inserted into the lock.

The lock cannot be Master Keyed.

Secure locking is achieved by:

- Locking is achieved by inserting the key into the dished keyhole and rotating fully, this action will extend the anchor bolt to expand the reinforced hooks to their fully thrown position.
- Unlocking is achieved by inserting the key into the dished keyhole and rotating fully, this action will withdraw the anchor bolt and retract the reinforced hooks to their rest position.



### Specification:

#### Features

- Laminated and hardened hooks to resist cutting.
- Reinforcing bolts to resist forced attack.
- 12 lever highly durable mechanism.
- Low friction key journals.
- Lever arrangement designed to provide extended product life.
- Dedicated key profiles.
- Escutcheon designed to give positive key alignment.
- Security fixings to prevent unauthorised removal.

#### Performance

- Lock tested to a minimum of 500,000 key operations.
- Saw attack 10minutes
- End load 13.5 kN
- Pull test load 13.5 kN

#### Additional Features

- Suitable for external and internal use.
- Specially designed forend and fascia locking plates.
- Available in alternative furniture finishes on request.
- Can be keyed with 3G112 Mark 3 Deadbolt
- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Monitored versions available with micro-switch sensing of bolt position.

### Morticed Hookbolt Lock – Single Action

- Single sided version available on request.

#### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** CLCS recommend this lock is used in conjunction with a wooden door 54mm thick. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase height	141.2mm
Lockcase width	21mm
Weight (lock only)	3kg

#### Finish:

- Lock case - carbon steel electro-plated.
- Anchor bolt – stainless steel and carbon steel composite.
- Hook bolts – hardened steel.
- Escutcheons – silica brass
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze

#### Application:

##### Purpose

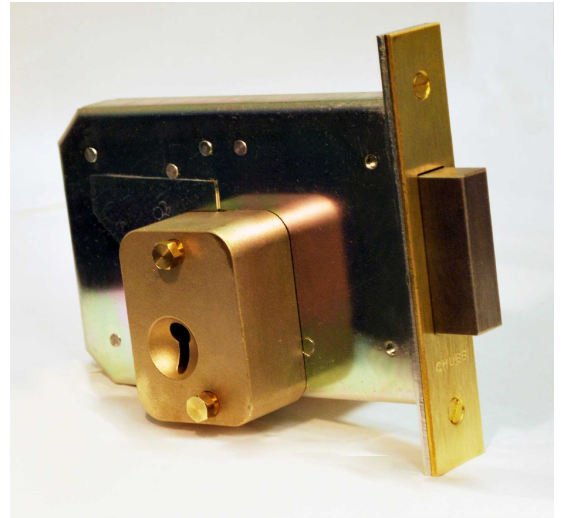
To provide secure deadlocking of swinging doors or gates where a greater range of keying options is desirable. This lock is designed for high usage applications and is also suitable for specialised applications such as explosive containers and armouries.

##### Overview

The 3G317 is a mortice deadlock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. The mechanical deadbolt can be supplied with single throw of 20mm or a double throw of 40mm. The lock is can be supplied with key operation from both sides or from one side only.

Unlocking / Locking is achieved by turning the key fully which extends and withdraws the deadbolt. The lock can be configured to operate under a number of key control arrangements which are as follows:

- **Single key – single throw deadlock** – Keyed to differ.
- **Master keyed – single throw deadlock** – Keyed to differ or to pass in groups under a common master key.
- **Twin keyed, double throw, double action deadlock** – Singles key operates first throw only and doubles key operates second throw only. Doubles key locks out unauthorised use of singles key when second throw is operated.
- **Twin keyed, double throw, double action deadlock** – Singles key operates first throw only and doubles key operates both first and second throw. Doubles key locks out unauthorised use of singles key when second throw is operated.



#### Specification:

##### Features

- Carbon steel deadbolt, with carbide anti-cutting rollers and 40mm maximum throw.
- 7 detainer manipulation resistant locking mechanism.
- Independent Single and Doubles actions available.
- Precision machined and hardened bolt thrower.
- Dedicated key profile operates 3G317 range of locks only.
- Escutcheon designed to give positive key alignment.
- Security fixings to prevent unauthorised removal.

##### Performance

- Lock tested to a minimum of 500,000 key operations.
- Saw attack 30 mins
- End load 9 kN
- Side Load 13.5 kN

##### Additional Features

- Suitable for external and internal use.
- Range of fixings including reinforcing plates and locking plates.
- Available in alternative furniture finishes on request.
- Cannot be keyed with any other locks in the CLCS range.
- Key designed to enable quick and easy re-alignment of displaced throwers.

### Morticed Deadlock

- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Rebate kit available for wooden door applications.
- Monitored versions available with micro-switch sensing of bolt position.
- Single sided version available on request.

#### Total Range

- The lock is generally not handed, however when keyed from one side only the lock is handed. For use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** CLCS recommend this lock is used in conjunction with a wooden door 54mm thick. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase length	114.2mm
Lockcase width	21.5mm
Weight (lock only)	3kg

#### Finish:

- Lock case – carbon steel electro-plated.
- Bolt – carbon steel electro-plated.
- Escutcheons – silica brass
- Keys – hardened steel
- Detainers and springs – brass / phosphor bronze.



### Application:

#### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging pass doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile. The key is supplied to enable an override (unlocking) for the electric locking if power fails.

Note (1): The Chubb 5 lever mechanism fitted to the 3L215 can not be used to mechanically lock the latch bolt – it can only be used to unlock the electric locking mechanism.

Note (2): The Chubb 5 lever mechanism fitted to the 3L215 can not be master keyed. Please contact CLCS if a master key mechanism is required as an alternative product is available.

Note (3): The latch bolt can only be withdrawn by operating the handle mechanism.

#### Overview

The 3L215 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended. The latch bolt cannot be electrically locked back when fully withdrawn.

#### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is engaged. Unlocking is achieved by 24 Volt DC supply from an external source to energise (lift) the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the unlocked state when the door is out of frame.

#### Manual Override

In the event of power or communication failure an override key is used to override the solenoid locking bolt.

#### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever override mechanism.
- Factory restricted key section.
- Status output – secure / insecure
- Pick resistant mechanism with protective curtain.

#### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).
- This lock can be supplied in groups keyed alike.

### Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F

### Finish:

#### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO - Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

#### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Handle & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 – Chrome Silver Painted -
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated with Triklad high performance Trivalent Coating -
- **Lock Installation Cable** - Standard 3 or 10 metre pre wired cable or site cable available upon request.

### Application:



#### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging pass doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile. The key is supplied to allow the lock to be mechanically secured and monitored.

#### Overview

The 3L217 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended and door in frame. The latch bolt cannot be electrically locked back when fully withdrawn.

#### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is energised +24 Volt DC to engage. Unlocking is achieved by de-energising the 24 Volt DC supply from an external source to lift the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the locked state when the door is in frame.

#### Manual Override

The lock is not provided with a manual override. If power fails the locking solenoid will automatically disengage.

#### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever locking mechanism.
- Locks can be keyed alike or keyed to differ
- Factory restricted key section.
- Status output – secure / insecure, door inframe and mechanical locking status.
- Pick resistant mechanism with protective curtain.

#### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).

This lock can be supplied in groups keyed alike.

### Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2

### Finish:

#### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate to CM5 M1047

3L217.002

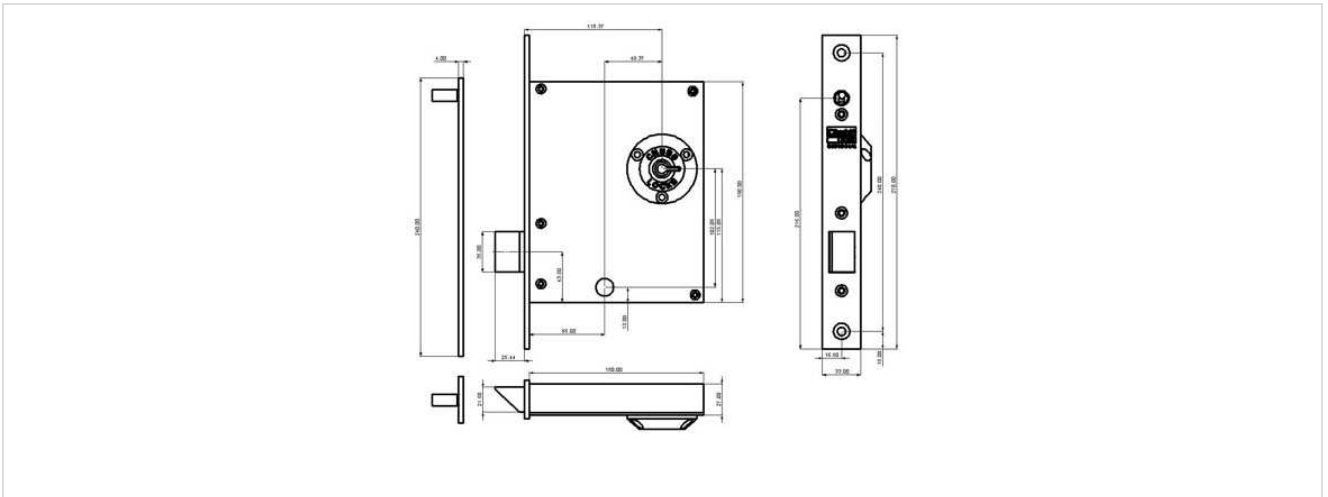
## Morticed electro-mechanical pass lock with DIF sensor

- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Knob & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 - Polished and plated.
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated to CM5 M1047
- **N35 Magnet** - BN017A 6MM X 25MM
- **Lock Installation Cable** - 3 or 10 metre (or custom length to suit)

### Technical Design:



#### Application:

##### Purpose

To provide secure locking of swinging passage / control doors using third party security management systems (SMS) or conventional key control. Designed to enable key and electric operation from both sides of the door. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes.

##### Overview

The 3R63 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. It has a substantial bolt designed to be withdrawn by means of a large 'T' handle or lever handle, on either side of the lock, whether opening or closing the door. The face of the bolt is angled so that it will slam shut in an emergency, but excessive slamming is not recommended and may lead to premature wear and failure. Locking is achieved by means of a completely separate (and interchangeable) inner locking unit, operable from either side, the vertically sliding bolt of which, engages in a recess in the main bolt: alternatively, a plunger controlled by the solenoid unit, operates in a similar manner at the rear end of the bolt.



#### Specification:

##### Principal of Operation

- **Electrical Mode** – Locking/unlocking by 24 Volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Mode** – Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Override** – In the event of power or communication failure an override key is used to disable the electric locking function.

##### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- 25mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers
- Dual solenoid electric locking latch.
- Independent 8-lever locking mechanism.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3A63/3A73/3R63 group of locks only.

##### Performance/Testing/Standards

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Solenoid locking unit tested to a minimum of 1,000,000

## 3R63

### Electromechanical Mortice Pass Lock

cycles.

- Saw attack on the main bolt 12 hours.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.
- End load 13.5 kN
- Side Load 25 kN

#### Additional Items

- Range of handle / knob options
- Gate Box
- Lock Interface Unit to facilitate operation by commercial access control systems
- Door cable
- Reinforcing plates for use on wooden doors

#### Dimensions & Weights

Case Height	207mm
Case Length	229mm
Case Thickness	29mm
Bolt Throw	25mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	10.5kg

Please request customer drawing for detailed information.

#### Finish:

- Lock case - carbon steel electro-plated.
- Main bolt - carbon steel electro-plated.
- Main bolt follower – high tensile brass.
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze.

### Application:

#### Purpose

To provide secure locking of swinging passage / control doors using third party security management systems (SMS) or conventional key control. Designed to enable key and electric operation from both sides of the door. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes. Locks detailed in this specification also include an integral Door In Frame Sensor (DIF) to indicate the door status when used in conjunction with a suitable DIF magnet.

#### Overview

The 3R63 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. It has a substantial bolt designed to be withdrawn by means of a large 'T' handle or lever handle, on either side of the lock, whether opening or closing the door. The face of the bolt is angled so that it will slam shut in an emergency, but excessive slamming is not recommended and may lead to premature wear and failure. Locking is achieved by means of a completely separate (and interchangeable) inner locking unit, operable from either side, the vertically sliding bolt of which, engages in a recess in the main bolt: alternatively, a plunger controlled by the solenoid unit, operates in a similar manner at the rear end of the bolt.



### Specification:

#### Principal of Operation

- **Electrical Mode** – Locking/unlocking by 24 Volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Mode** – Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Override** – In the event of power or communication failure an override key is used to disable the electric locking function.

#### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- 25mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers
- Dual solenoid electric locking latch.
- Independent 8-lever locking mechanism.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3A63/3A73/3R63 group of locks only.
- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm

### Electromechanical Mortice Pass Lock With DIF Sensor

working range)

#### Performance/Testing/Standards

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Saw attack on the main bolt 12 hours.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.
- End load 13.5 kN
- Side Load 25 kN

#### Additional Items

- Handle and escutcheon kits (not supplied with the lock). Kits can be supplied to suit various functional requirements, door thicknesses and aesthetic requirements. Contact CLCS for further details.
- Frame mounted magnet assembly (to operate with the integral DIF sensor)
- Locking plate with integral magnet assembly.
- Gate Box
- Lock Interface Unit to facilitate operation by commercial access control systems
- Door cable
- Reinforcing plates for use on wooden doors

#### Dimensions & Weights

Case Height	207mm
Case Length	229mm
Case Thickness	29mm
Bolt Throw	25mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	10.5kg

Please request customer drawing for detailed information.

#### Finish:

- Lock case – carbon steel electro-plated.
- Main bolt – carbon steel electro-plated.
- Main bolt follower – high tensile brass.
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze.



### Application:

#### Purpose

To provide secure locking of swinging passage / control doors using third party security management systems (SMS) or conventional key control. Designed to enable key and electric operation from both sides of the door. This lock is specifically designed for very high use applications; typically securing perimeter gates and main access routes.

#### Product Codes

3R66/001/03/S D/C PASS D'LOCK BODY ONLY  
3R66/002/01/S D/CONT P/LOCK ILU W/D NO FIX ITEMS  
3R66/002/02/S D/CONT P/LOCK ILU W/D + FIX ITEMS  
3R66/002/03/S D/CONT P/LOCK ILU S/D NO FIX ITEMS  
3R66/002/04/S D/CONT P/LOCK ILU S/D + FIX ITEMS

#### Overview

The 3R66 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. It has a substantial bolt designed to be withdrawn by means of a large 'T' handle or lever handle, on either side of the lock, whether opening or closing the door. Locking is achieved by means of a completely separate (and interchangeable) inner locking unit, operable from either side, the vertically sliding bolt of which, engages in a recess in the main bolt: additionally, a plunger controlled by the solenoid unit, operates in a similar manner via an electronic management system.

#### Principal of Operation

##### Electrical Mode

Locking/unlocking by 24 Volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.

##### Manual Mode

Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.

##### Manual Override

In the event of power or communication failure an override key is used to disable the electric locking function.

##### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- 25mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers
- Unique dual solenoid electric locking latch.
- Independent 8-lever locking mechanism.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3A63/3R63/3R66 group of locks only.

##### Additional Items

- Gatebox
- Lock interface unit for operation with commercial access control systems
- Door cable

3R66

## Morticed electro-mechanical deadlock

- Reinforcing plates for use on timber doors

### Finish:

#### Materials and Finishes

**Lock case** - carbon steel electro-plated.

**Main bolt** - carbon steel electro-plated.

**Main bolt follower** – high tensile brass.

**Keys** – hardened steel

**Levers and springs** – brass / phosphor bronze.

#### Options

Various furniture options are available upon request

## Application:

### Purpose

To provide a means of securing wooden doors on offices and rooms where a range of suiting options is required, and/or where a high degree of protection against all known forms of criminal attack is needed.

### Product Codes

H3G110/108/BS LOCK BODY OLD SUITE  
H3G110/108/S MORT D/LOCK O/SUIT SAT NO KEYS  
H3G110/108A/BS LOCK BODY NEW SUITE  
H3G110/108A/S MORT D/LOCK N/SUIT SAT NO KEYS  
H3G110/P211 SUITE KEYS (NON BULLETED) 1.1/2" BBB  
H3G110/P211MK MASTER KEY NON BULLETED 1.1/2" BBB  
H3G110/P213 SUITE KEY (BULLETED) 1.1/2" BBB  
H3G110/P213MK MASTER KEY (BULLETED) 1.1/2" BBB  
H3G110/P411/1/S S.O SUITED DET'S NO KEYS

### Overview

A 44mm backset mortice lock with a single dead-action bolt. The lock is constructed of formed up case, welded forend and flat cap screwed to pillars in the case. A separate stainless steel or brass faceplate is attached to the forend.

### Standard Features

- Steel Body.
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Steel key.

### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system



## Standards:

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

## Finish:

### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.

#### Application:

##### Purpose

To provide a means of securing wooden doors on offices and rooms where a range of suiting options is required, and/or where a high degree of protection against all known forms of criminal attack is needed.

##### Product Codes

H3G135/010/04/S HSMDL SAT B/SEC EX KEYS  
H3G135/010/4/ST HSMDL SAT B/SEC SUITED

##### Overview

Featuring a unique key section, available only to secure establishments the 3G135 is a 44mm backset mortice lock with a single dead-action bolt. The lock is constructed of formed up case, welded forend and flat cap screwed to pillars in the case. A separate stainless steel or brass faceplate is attached to the forend.

##### Standard Features

- Steel Body.
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

#### Application:

##### Purpose

To provide a means of securing wooden doors on offices and rooms where the use of a handle is required.

##### Product Codes

H3J60/010/03/S 1 BOLT MORT OLD SUITE NO KEYS  
H3J60/010/03A/S 1 BOLT MORT NEW SUITE NO KEYS  
H3J60/010/04/S 2 BOLT MORTICE LOCK OLD SUITE  
H3J60/010/04A/S 2 BOLT MORTICE LOCK NEW SUITE  
H3J60/010/14ABS LOCK BODIES WITHOUT DETAINERS  
H3J60/010/14BS LOCK BODIES WITHOUT DETAINERS

##### Overview

Mortice lock with formed-up case and welded Forend. Flat cap screwed to pillars in case. Horizontal construction with follower for handle at same level as keyhole.

Deadbolt operable by key only from either side (full turn to lock or unlock). Latch released by knob/handle only from either side, but will re-engage without the use of the knob/handle, under light door closing force.

##### Standard Features

- Steel Body.
- Latch bolt allowing use of a handle
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt and latch bolt**- brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.

# Secure Education

3160X

Horizontal 1 bolt mortice lock

# ASSA ABLOY



#### Application:

##### Purpose

To provide a means of securing wooden doors on offices and rooms where the use of a handle is required.

##### Overview

Mortice lock with formed-up case and welded Forend. Flat cap screwed to pillars in case. Upright construction with follower for handle in line with and above the keyhole.

Deadbolt operable by key only from either side (full turn to lock or unlock). Latch released by knob/handle only from either side, but will re-engage without the use of the knob/handle, under light door closing force.

##### Product Codes

H3K70/211/S 2/B MORT LH SAT O/SUIT NO KEYS

H3K70/211A/S2/B MORT LH SAT N/SUIT NO KEYS

H3K70/212/S 2/B MORT RH SAT O/SUIT NO KEYS

H3K70/212A/S2/B MORT RH SAT N/SUIT NO KEYS

##### Standard Features

- Steel Body.
- Latch bolt allowing use of a handle
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt and latch bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

#### Application:

##### Purpose

To provide a means of securing sliding or hinged wooden doors on offices and rooms where anti lift protection is required.

##### Product Codes

H3M50/05SA/S H/B MORT HB SCP/P N/ST NO KEYS

##### Overview

Mortice lock with formed-up case and welded Forend. Upright construction comprising hook and steady bolts, both of which withdraw completely into the case. Hook and steady bolt operated by key from either side (full turn to lock or unlock).

##### Standard Features

- Brass hookbolt with anti-padsaw steel rollers.
- Brass steady bolt to prevent the door being lifted.
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt and latch bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Tensile Load 5.0KN



#### Application:

##### Purpose

To provide a means of securing sliding wooden doors on offices and rooms where automatic closing action and anti lift protection is required.

##### Product Codes

Upon request

##### Overview

Mortice lock with formed-up case and welded Forend. Upright construction comprising hook and steady bolts, both of which withdraw completely into the case. Hook and steady bolt operated by key from either side (full turn to lock or unlock).

##### Standard Features

- Brass clutch bolt with anti-padsaw steel rollers.
- Brass stud bolt to prevent the door being lifted.
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the clutch bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Tensile Load 5.0KN

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Clutch bolt and stud bolt** - brass.
- **Clutch bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.

## 3R135X

### Upright high security mortice lock with latch bolt and snib

#### Application:

##### Purpose

To provide a means of securing swinging wooden doors on offices and rooms where a slam action and a unique key profile, for use only in high security establishments is required.

##### Product Codes

H3R135X/01/ST HOPD PRIVACY LOCK RH BRASS

H3R135X/02/ST HOPD PRIVACY LOCK LH BRASS

H3R135X/ST/BS HOPD PRIVACY LOCK BRASS BODY ONLY

##### Overview

Mortice lock with formed-up case and welded Forend. Upright construction comprising latch and snib bolts to provide auto deadlocking of the operating handle.

##### Standard Features

- Automatic deadlocking action
- Snib to hold back the bolt when the door needs to be left ajar
- Operating handle can be secured from either side
- Locking of handle can be inhibited for use as a fire escape door
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

##### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

#### Finish:

##### Materials and Finishes

- Lockcase, cap, forend and locking plate : mild steel (painted)
- Bolt head, deadlocking slide and follower : steel sinterings (nickel plated)
- Bolt tail, runner, dogging slide, detent, thrower flange and bolt stump arm : mild steel (nickel plated)
- Levers and thrower spindle : brass (natural finish)
- Lever Springs: 18/8 stainless steel
- Lever spring support : Glass reinforced nylon
- Snib follower : Mazak 3
- Thrower retaining spring : zinc plated spring steel
- Springs generally : stainless steel



#### Standards:

##### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the latch bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN

## Application:

### Purpose

To provide a secure latch, operable by handle from one side or both sides, and by key from the other side or both sides, for use on wooden doors in offices and administration rooms.

### Product Codes

H3R35/207/S M.L.LATCH SS O/S EX.KEYS  
H3R35/207A/BS M.L.LATCH SS N/S EX.KEYS BODY ONLY  
H3R35/207A/S M.L.LATCH SS N/S EX.KEYS  
H3R35/208/BS M.L. LATCH BODY ONLY

### Overview

The lock is primarily designed to have a handle on one side of the door only. In "latched only" state i.e. having just pushed door to, the bolt can be withdrawn by means of the handle (from inside) or by partial turn of the key (from either side). The snib (above the handle) can be used to hold the bolt in the withdrawn position. A full turn of the key in the locking direction effectively deadlocks the handle which can then only be released by a full turn in the opening direction. The 3R35 can also be used without handles on either side.

### Standard Features

- Deadlocking slide (directly above latch bolt) deadlocks the latch bolt when the latter is engaged in the locking plate and prevents springing back by whatever means (Note: Gap between locking plate and forend must not exceed 3 mm).
- Deadlocking of handle (full turn of the key) to prevent operation of the handle from outside by breaking glass/panel etc. and reaching through.
- 5 lever locking mechanism with 9 lifts/lever affording at least 25,000 usable differs.
- False notching and common belly form on levers to deter reading and manipulation attacks.
- Key thrower with curtain to restrict access to the locking mechanism and further frustrate manipulative attack.
- Internal components designed to collapse under strong key attack leaving lock secure.
- Steel box on locking plate to protect head of bolt from jemmy attack.
- Edge gated levers suitable for master keying in suites compatible with other Chubb Security Range locks.
- Snib to hold bolt in withdrawn position and prevent door from accidentally latching.

## Finish:

### Materials and Finishes

- **Lockcase, cap, forend and locking plate** : mild steel (painted)
- **Bolt head, deadlocking slide and follower** : steel sinterings (nickel plated)
- **Bolt tail, runner, dogging slide, detent, thrower flange and bolt stump arm** : mild steel (nickel plated)



## Standards:

### Performance/Testing/Criteria

- 60,000 latch withdrawals using key.
- 240,000 latch withdrawals via follower.
- 300,000 slams.
- 60,000 full turns of key to deadlock and release.

### Upright mortice locking latch

- **Levers and thrower spindle** : brass (natural finish)
- **Lever Springs**: 18/8 stainless steel
- **Lever spring support** : Glass reinforced nylon
- **Snib follower** : Mazak 3
- **Thrower retaining spring** : zinc plated spring steel
- **Springs generally** : stainless steel

## 3R35X

## Upright mortice lock with latch bolt and snib

### Application:

#### Purpose

To provide a means of securing swinging wooden doors on offices and rooms where a slam action is required.

#### Product Codes

H3R35X/207A/BS M.L.L SS NS K.STP EX.KEYS BODY ONLY  
H3R35X/207A/S M.L.LATCH SS NS K.STOP EX.KEYS

#### Overview

Mortice lock with formed-up case and welded Forend.  
Upright construction comprising latch and snib bolts to provide auto deadlocking of the operating handle.

#### Standard Features

- Automatic deadlocking action
- Snib to hold back the bolt when the door needs to be left ajar
- Operating handle can be secured from either side
- Locking of handle can be inhibited for use as a fire escape door
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

#### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system



### Standards:

#### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the latch bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN

### Finish:

#### Materials and Finishes

- **Lockcase, cap, forend and locking plate** : mild steel (painted)
- **Bolt head, deadlocking slide and follower** : steel sinterings (nickel plated)
- **Bolt tail, runner, dogging slide, detent, thrower flange and bolt stump arm** : mild steel (nickel plated)
- **Levers and thrower spindle** : brass (natural finish)
- **Lever Springs**: 18/8 stainless steel
- **Lever spring support** : Glass reinforced nylon
- **Snib follower** : Mazak 3
- **Thrower retaining spring** : zinc plated spring steel
- **Springs generally** : stainless steel

#### Application:

##### Purpose

To provide secure locking of hinged wooden doors in storerooms, outhouses etc in secure establishments, where a latch action is not required.

##### Product Codes

3G114/07/S 2.1/2 MORT D/LOCK SAT NO KEYS

3G114/07/TP 2.1/2 MDL SAT TO PASS WITH KEYS

3G114/SC/67 2.1/2 MORT D/LOCK SAT TWO KEYS

##### Overview

Operable by key from either side (full turn to lock or unlock).

##### Standard Features

- Steel Body
- Brass deadbolt with 14mm throw
- Anti-padsaw steel rollers
- 5 lever mechanism offering over a thousand key combinations
- Built in protection against picking, drilling, force and torque attack
- Brass key
- Optional micro-switches for alarm system integration
- Can be suited as part of a master keyed system

#### Finish:

##### Materials and Finishes

- **Lockcase, cap, forend and locking plate** - mild steel (painted textured silver)
- **Bolt head, stump and tail** - integral brass stamping (natural finish).
- **Thrower** - die-cast mazak alloy (nickel-plated).
- **Levers** - hard rolled brass (natural finish).
- **Lever springs** - phosphor bronze (natural finish).
- **Thrower retaining spring** - spring steel (zinc-plated).
- **Faceplate and escutcheons** - brass or stainless steel (satin finish).



#### Standards:

##### Performance/Testing/Criteria

60,000 full turns of key to deadlock and release.

## Application:

### Purpose

Replacement tokens for use with the ATLAS® system.

### Overview

Can be used with both MK2 3A63 pass lock and 4A79 cell lock systems.

### Standard Features

- Machined nylon enclosure
- Stainless steel mid section



#### Application:

##### Purpose

To provide a means of identifying the position, within a frame, of a custodial doorset or gate.

##### Product Codes

BS100/003/01/W DOOR SWITCH ASSY (INTERRUPTER DISC) MK3 SINGLE POSITION

BS100/003/02/W DOOR SWITCH ASSY (INTERRUPTER DISC) MK3 LOCK BACK

BS100/050/01/W BEAM SWITCH NO BRACKET

##### Overview

The switch is designed for use with "Pivot" Hinge doors and gates commonly used in custodial environments in the UK and overseas. The primary function of the device is to provide accurate door in frame position sensing with low hysteresis. Accurate feedback to the access control system is essential to prevent un-planned locking out of frame and to ensure reliable auto-relock function when required.

##### Standard Features

- IFM Position Feedback Sensor
- Dual handed brackets to suit left and right handed doorset applications
- Adjustable during installation to ensure accurate readings

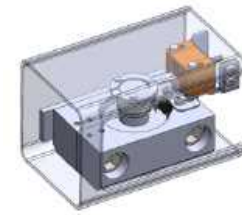
##### Options

- Single position switch is used to monitor doors that are either held in the locked position or left open and unlocked.
- Lock back switch is used to monitor doors that are either locked in frame or locked in a lock back frame

#### Finish:

##### Materials and Finishes

- **Mounting bracket** – Zinc plated and passivated mild steel
- **Adjustable sensor plate** – Zinc plated and passivated mild steel
- **Sensor arm** – Zinc plated and passivated mild steel
- **Interrupter body** - aluminium



#### Standards:

##### Performance/Testing Criteria

Sensor compliant with EN 60947-5-2 and EN 55011 class B



#### Application:



#### Purpose

The Lock Interface Unit (LIU) is a PCB which is intended to be DIN rail mounted as supplied, that allows you to control and monitor the Chubb 3R63 Pass and 4L78 Cell Locks.

One of the PCB's is required per lock.

#### Product Item Codes

3R63/055/01/S – Lock Interface Unit (Pre 2014 installations)

3R63/055/02/S – Lock Interface Unit With Relays (Post 2014 installations)

#### Overview

The PCB's can be fitted singularly local to the door in a junction box or header, or for larger systems in a centrally located cabinet where a number of locks may be installed using a shared power supply.

There are 3 terminal blocks which allow the wiring from the Power Supply/Door Position Switch and the Control System, to interface with the Lock.

Using a rotary switch mounted on the PCB, the lock can be configured to either

- Auto-relock (If bolt withdrawn)
- Auto-relock (after specified time\*, no bolt withdrawal necessary)
- Require an external input to lock.

\* Relock time is selectable in 5s intervals up to 1 minute.

Interlocks can also be achieved by connecting together the required PCB's

#### Monitoring

The PCB has terminations to monitor the following;

- **Mechanical Lock (ILU)**

The ILU is connected directly from the lock to the monitoring terminal block TB2, there is no digital input to the processor. This is a changeover contact so either state can be monitored/displayed, mechanically locked or unlocked.

- **Electric Locking Unit (ELU)**

The ELU is the double solenoid unit within the lock, for which the PCB provides the pulse sequence to unlock. This then frees the bolt to allow withdrawal via handle operation. The sequence is;

- Solenoid A energized, 100mS Delay.
- Solenoid B energized, 400mS Delay.
- Solenoid A de-energized, 100mS Delay.
- Solenoid B de-energized.

- **Bolt Position**

This is also an open drain output which gives 0V when the bolt is extended. As soon as the bolt is withdrawn and the locks micro-switch activates this output goes to 24V.

- **Tamper Loop**

This is similar to the ILU in that it is directly connected from the lock to the monitoring terminal block TB2. There is no input to the PCB's processor.

- **Door Position**

An external door switch (i.e magnetic) is required to signal to the PCB that the door is in frame. This is used for auto relock operation.

# Secure Education

3R63.055

## Lock Interface Unit

**ASSA ABLOY**

# Secure Education

3A63.071.01.W

ATLAS 3A63 Token

# ASSA ABLOY

## Application:

### Purpose

Replacement tokens for use with the ATLAS® system.

### Overview

For use with both MK1 and MK2 systems

### Standard Features

- Ultrasonically welded glass filled nylon enclosure
- Brass wear resistant ferrule



## Application:

### Purpose

Replacement tokens for use with the ATLAS® system.

### Overview

For use with RFID based systems

### Standard Features

- Stainless Steel wear resistant enclosure



#### Application:

A Chubb Locks Custodial Services Ltd fire escape door for police station custody secure areas incorporating recessed pull handles and Type 2 Chubb 3G112 heavy duty mortice deadlock. Generally conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Generally Conforms to the Police Buildings Custody Design Guide
- Generally Conforms to the National Police Estates Group Best Practice Document
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

##### Door Frame

- 3mm thick Pressed Steel Profile Frame 125x69x50mm 19mm Rebate Electro-Zinc Coated to BS EN 10152:2009
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame
- Security Type Frame Grommets to Conceal Fixings

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Recessed Pull Handle Both Sides Cast Stainless Steel Grade 304

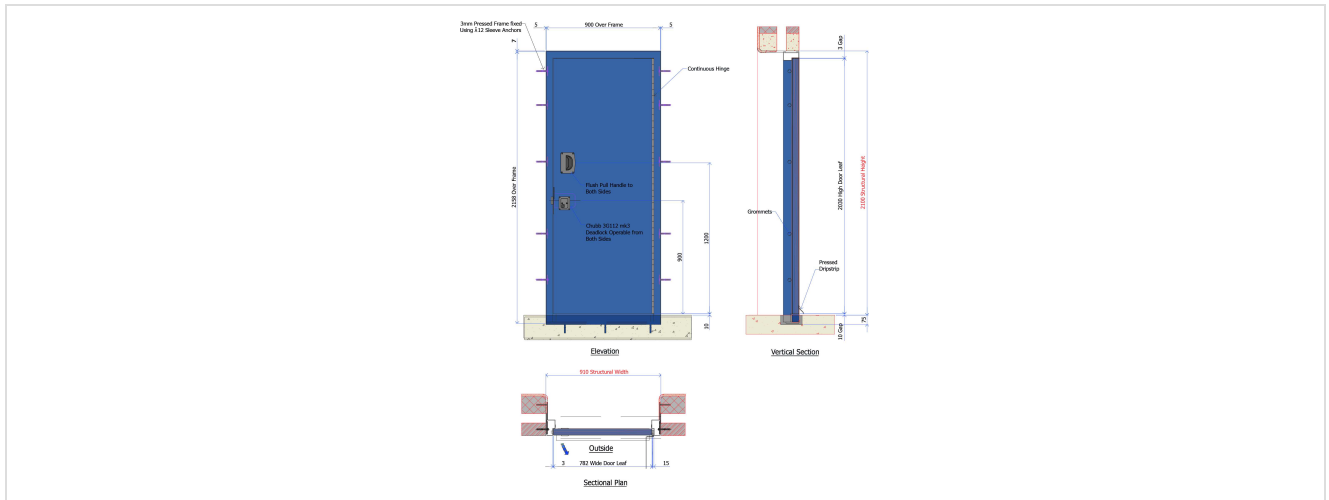
##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 782mm Wide x 2030mm High Excluding Hinge(s) x 48mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

## Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd door typically used for police station pass or exercise yard doors within custody. Incorporating a 150mm square laminated glass vision panel, recessed pull handle and Type 2 Chubb 3G112 heavy duty mortice deadlock. Generally conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Generally Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

##### Door Frame

- 3mm thick Pressed Steel Profile Frame 125x69x50mm 19mm Rebate Electro-Zinc Coated to BS EN 10152:2009
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame
- Security Type Frame Grommets to Conceal Fixings

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 150mm Square Laminated Glass Vision Panel
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable One or Both Sides
- Recessed Pull Handle Both Sides Cast Stainless Steel Grade 304

##### Standard Dimensions

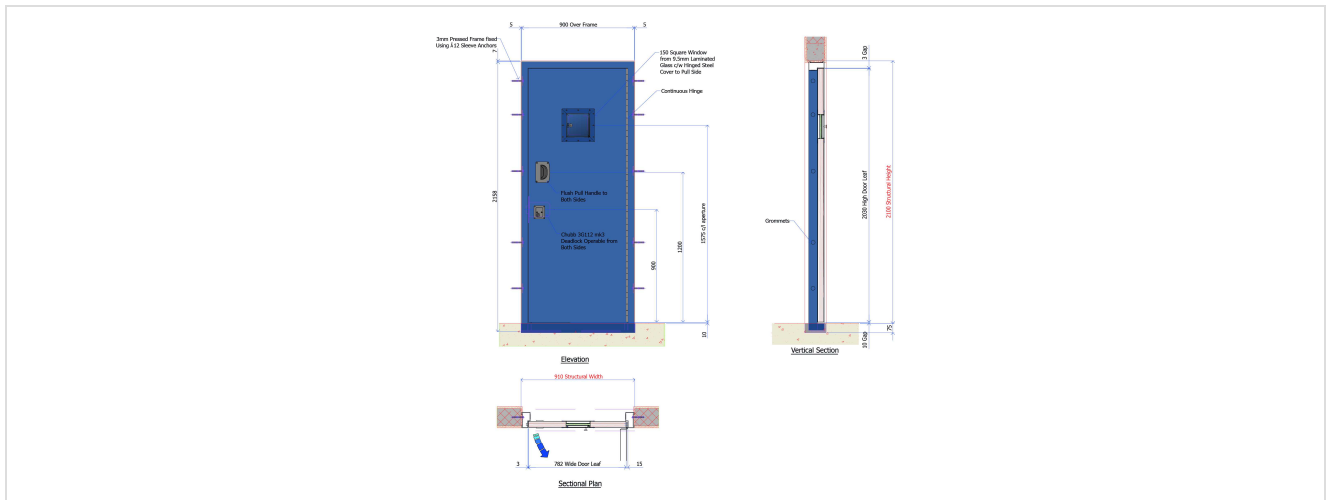
- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 782mm Wide x 2030mm High Excluding Hinge(s) x 48mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut



#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:





### Application:

A Chubb Locks Custodial Services Ltd secure door for police station surgeon/medical rooms in custody incorporating a 150mm square laminated glass vision panel with privacy cover, recessed pull handle and Type 2 Chubb 3G112 heavy duty mortice deadlock. Generally conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Generally Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

#### Door Frame

- 3mm thick Pressed Steel Profile Frame 125x69x50mm 19mm Rebate Electro-Zinc Coated to BS EN 10152:2009
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame
- Security Type Frame Grommets to Conceal Fixings

#### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 150mm Square Laminated Glass Vision Panel with Hinged Steel Privacy Cover
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Recessed Pull Handle Both Sides Cast Stainless Steel Grade 304

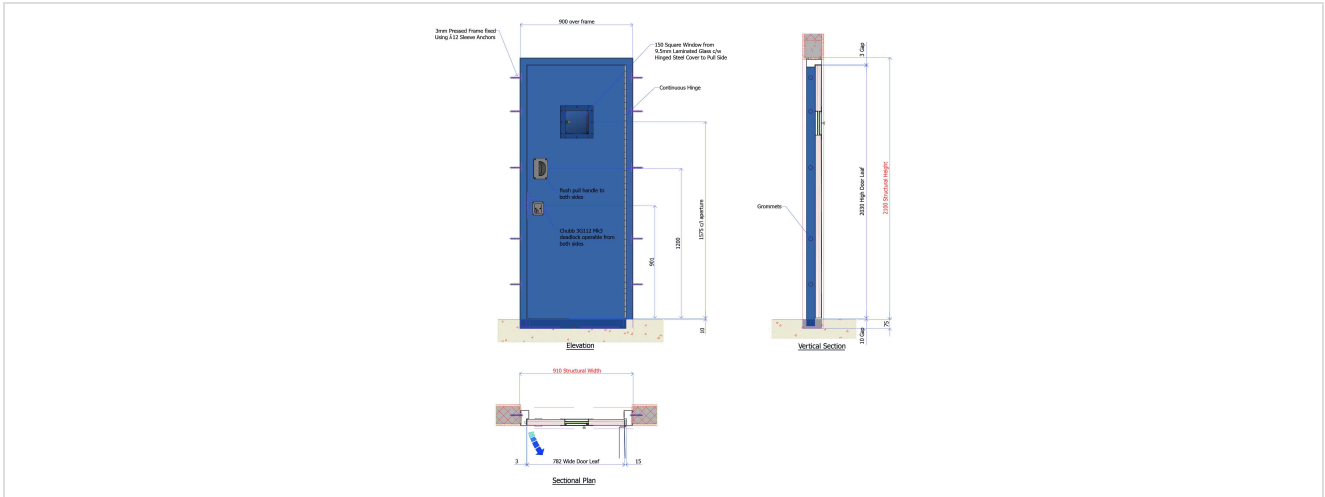
#### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 782mm Wide x 2030mm High Excluding Hinge(s) x 48mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd steel fire door with 60 mins fire resistance integrity for use in police custody. The door incorporates a laminated glass vision panel, a Type 2 Chubb 3G112 heavy duty mortice deadlock & continuous hinge.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Fire Resistance 60 mins Integrity to BS EN 1634-1:2000
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

##### Door Frame

- 125x75x8mm Rolled Steel Angle Frame to BS EN 10025:2004
- 25x25x3mm Rolled Hollow Section Steel Rebates to BS EN 10025:2004
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame

##### Door Leaf

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- Ligature Resisting Continuous Hinge Capable of Supporting Weight of Door Leaf
- Fire Rated Security Laminated Glazing
- Intumescent Glazing Gasket
- Glazing Frame Fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2
- Type 2 Chubb 3G112 Heavy Duty Mortice Deadlock Operable Both Sides
- Recessed Pull Handle Both Sides Stainless Steel Grade 304

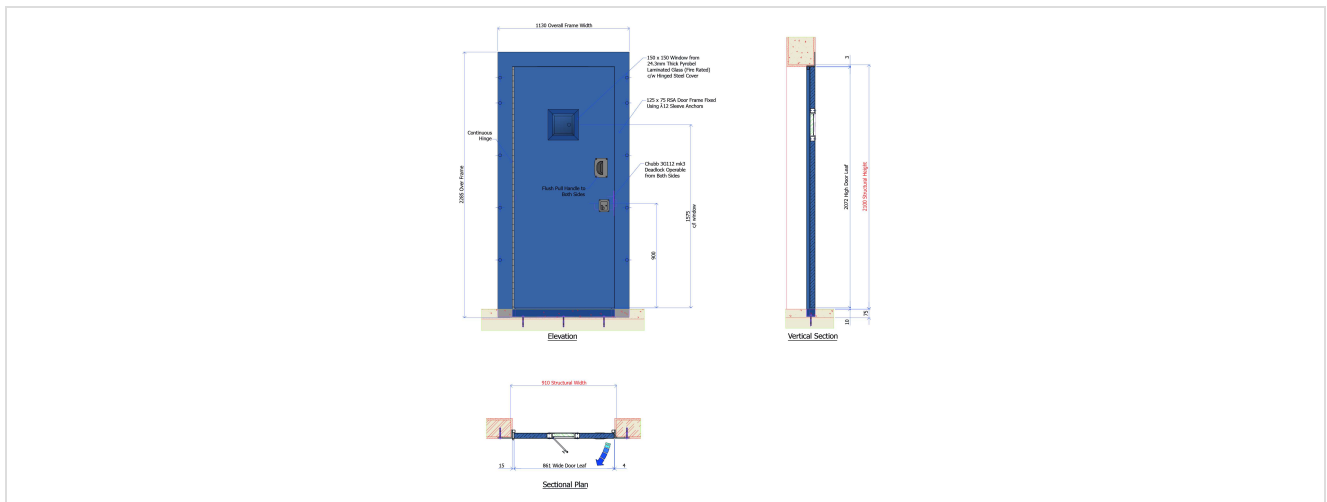
##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 1130mm Wide x 2210mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 861mm Wide x 2072mm High Excluding Hinge(s) x 46mm Thick
- Frame Clearance 7mm Jambs, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



### Application:

A Chubb Locks Custodial Services Ltd steel fully glazed corridor fire door & glazed side panel with 60 mins fire resistance integrity for use in police custody in place of traditional barred grilles. The door incorporates large toughened laminated glass vision panels and a Type 2 Chubb 3G112 heavy duty mortice deadlock.

### Specification:

#### Specifications, Performance Data & Tolerances

- Fire Resistance 60 mins Integrity to BS EN 1634-1:2000
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

#### Door Frame

- 100x60x4mm Hot Formed Rolled Hollow Section Steel Frame to BS EN 10025:2004
- 40x20mm Solid Section Steel Rebates to BS EN 10025:2004
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 12no. minimum per frame

#### Door Leaf

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 'CERTIFIRE' Approved Security Laminated Toughened Glazing
- Intumescent Glazing Gasket
- Glazing Frames Fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2
- Type 2 Chubb 3G112 Heavy Duty Mortice Deadlock Operable Both Sides
- Recessed Pull Handle Both Sides Stainless Steel Grade 304

#### Fixed Side Panel

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001

- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- 'CERTIFIRE' Approved Security Laminated Toughened Glazing
- Intumescent Glazing Gasket
- Glazing Frames Fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2

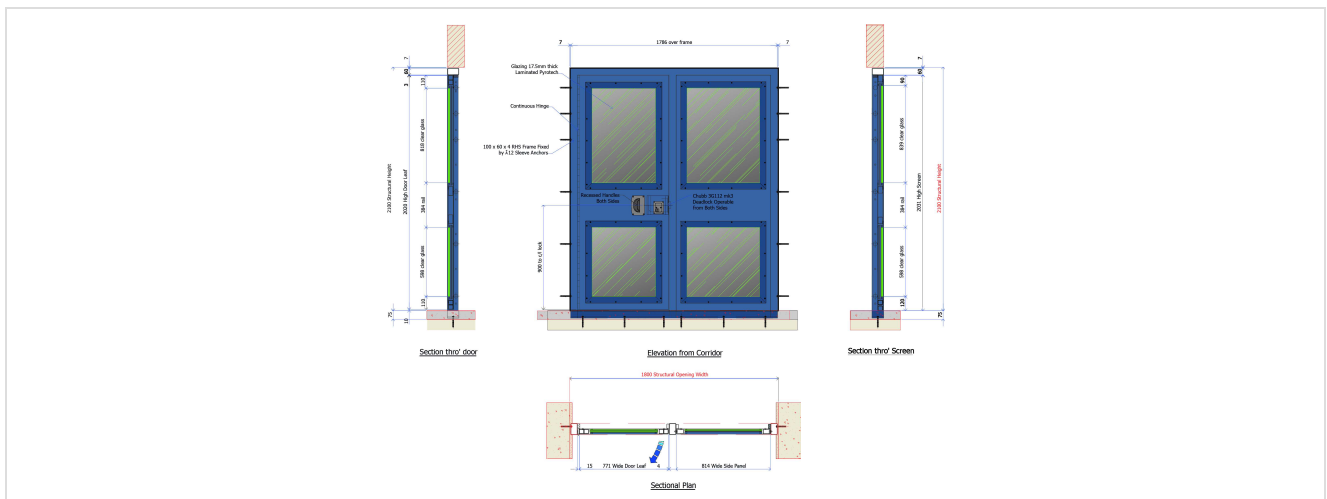
#### Standard Dimensions

- Structural Opening 1800mm Wide x 2100mm High
- Overall Door Frame 1786mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 771mm Wide x 2020mm High Excluding Hinge(s) x 46mm Thick
- Door Leaf Frame 910mm Wide x 2486mm High Overall from FFL
- Side Panel 876mm Wide x 2093mm High x 46mm Thick Including Frame
- Frame Clearance 7mm Jamb, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



### Application:

A Chubb Locks Custodial Services Ltd steel CERTIFIRE approved door & frame service duct door with 60 mins fire resistance integrity typically located in-between cells. The door incorporates a Chubb 3G114 5 lever mortice deadlock, 3no. butt hinges and recessed pull handle outside. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- CERTIFIRE Approved Fire Resistance 60 mins Integrity to BS EN 1634-1:2000 and BS 476 part 22
- Typical Insulation Value 3.2W/m<sup>2</sup>k
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

#### Door Frame

- 1.5mm thick Pressed Steel Profile Frame 100x65x50mm 15mm Rebate Hot Dip Zinc Coated to BS EN 10346:2009
- 3 or 4 Sided Frame
- Knock-Down or Fully Welded Frame Joints
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings 7.5mm dia x 72mm CSK T30 Concrete Screws 8no. minimum per frame

#### Door Leaf

- 1.2mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- Pre-Expanded Small Cell Honeycomb Core
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 3no. per Leaf
- Chubb 3G114 5 Lever Mortice Lock Operable Outside Only

#### Standard Dimensions

- Structural Opening 600mm Wide x 1800mm High
- Overall Door Frame 590mm Wide x 1790mm High (4 Sided Frame) 1793mm (3 Sided Frame)
- Door Leaf 484mm Wide x 1684mm High 4 Sided Frame, 1730mm 3 Sided Frame x 44mm Thick
- Frame Clearance 5mm Jambs, 5mm Head & Bottom 4 Sided Frame, 7mm 3 Sided Frame
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head & Bottom 4 Sided Frame, 10mm undercut 3 Sided Frame

### Finish:

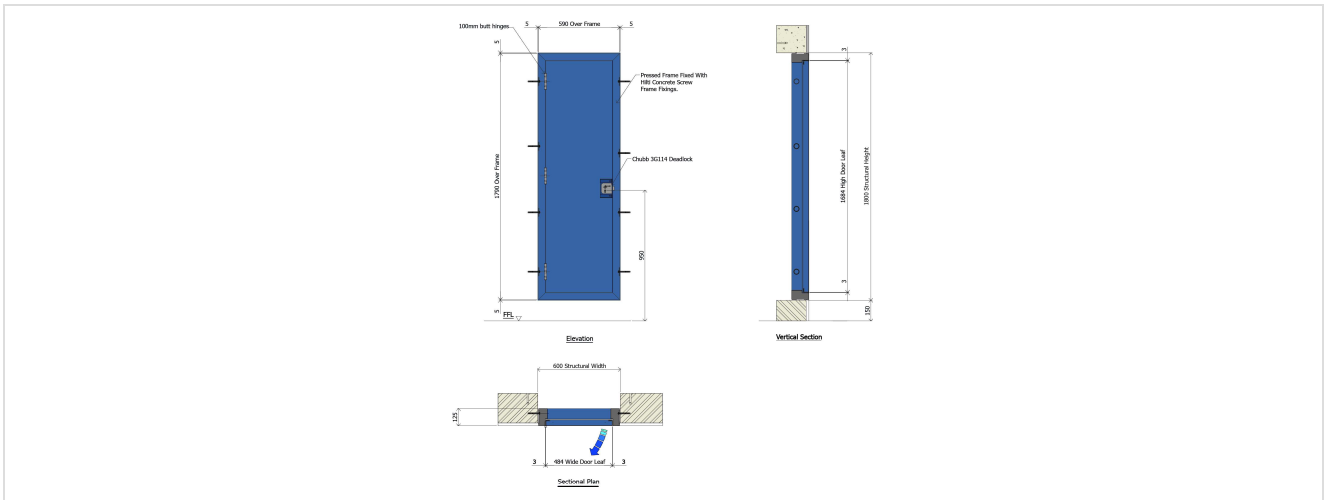
- Powder Coat Epoxy Primer to BS EN 12206-1:2004

# Secure Education

## 9D026B

### Steel Service Duct Door

## Technical Design:





#### Application:

A Chubb Locks Custodial Services steel CERTIFIRE approved fire door & frame with 60 mins fire resistance integrity for use in prison wings. The door incorporates preparation for a NOMS approved deadlock, flush bolts & 3no. butt hinges per leaf.



#### Specification:

##### Specifications, Performance Data & Tolerances

- CERTIFIRE Approved Fire Resistance 60 mins Integrity to BS EN 1634-1:2000 and BS 476 part 22
- Typical Insulation Value 3.2W/m<sup>2</sup>k
- Hinges Tested to BS EN 1935:2002 Grade 13 200,000 Cycles 120kg Door Leaf

##### Door Frame

- 1.5mm thick Pressed Steel Profile Frame 100x65x50mm 15mm Rebate Hot Dip Zinc Coated to BS EN 10346:2009
- 3 Sided Frame with Low Profile Aluminium Threshold Plate
- Knock-Down Frame Joints
- Self-Adhesive Neoprene Smoke Seals
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings 7.5mm dia x 72mm CSK T30 Concrete Screws 10no. minimum per frame

##### Door Leafs

- 1.5mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- Reinforced Door Construction
- Pre-Expanded Small Cell Honeycomb Core
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 3no. per Leaf
- Outer Steel Lock Box Welded Into Internal Door Construction
- Active Door leaf Prepared for NOMS Approved Deadlock Supplied & Fitted By Others
- Inactive Leaf Fitted with Two Fire Rated Steel Flush Bolts

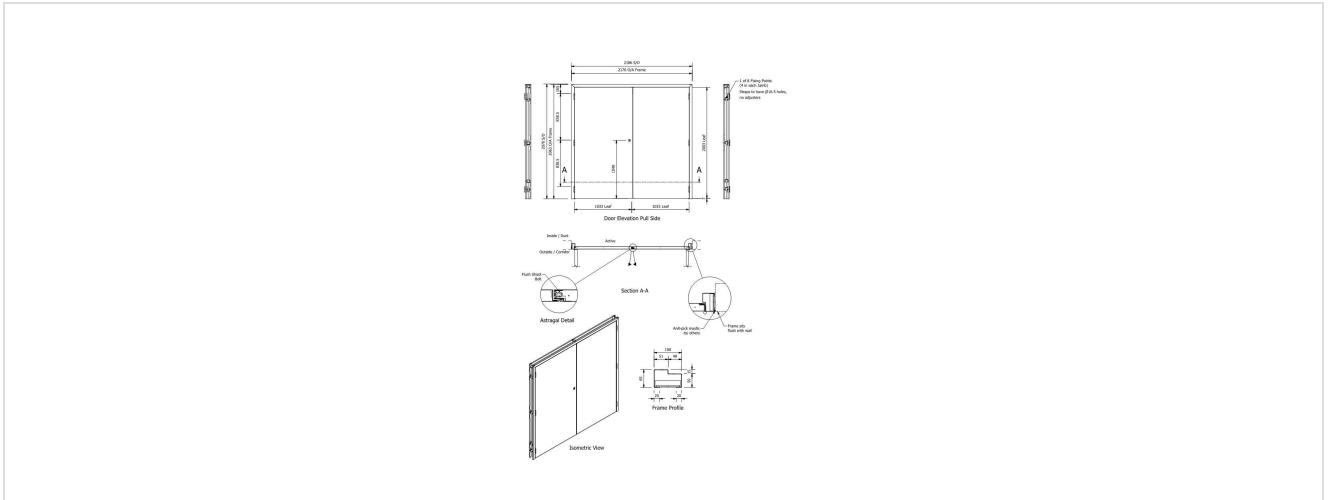
##### Standard Dimensions

- Structural Opening 2186mm Wide x 2070mm High
- Overall Door Frame 2176mm Wide x 2063mm High
- Door Leaf 1033mm Wide x 2003mm High x 44mm Thick
- Frame Clearance 5mm Jamb, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 3mm hinge, 3mm head, 7mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

## Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd solid timber door & frame personnel door with optional 60 mins fire resistance integrity typically used for staff offices, toilets etc. within custody. The door incorporates a Chubb 3J60 5 lever mortice deadlocking latch & knob furniture both sides and 4no. butt hinges. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

##### Door Frame

- Monolithic Hardwood Frame Section 3 Sides 125x75x50mm 25mm Rebate
- Sapele Hardwood Kiln Dried Moisture Content 10 -14% Density 640kg/m<sup>3</sup>
- Mortice & Tenon Joints
- Counterbored & Pelleted Fixings
- Frame Fixings 12mm dia x 100mm Sleeve Anchors 8no. minimum per frame

##### Door Leaf

- FD60 Certified 54mm thick Solid Timber Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles Average Density 460 - 500kg/m<sup>3</sup>
- Typically 9mm – 12mm Hardwood Lipping Bonded All 4 Edges Minimum Density 640kg/m<sup>3</sup> 15% MC
- Chubb 3J60 5 Lever Mortice Deadlocking latch with knob furniture both sides
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 4no. per Leaf

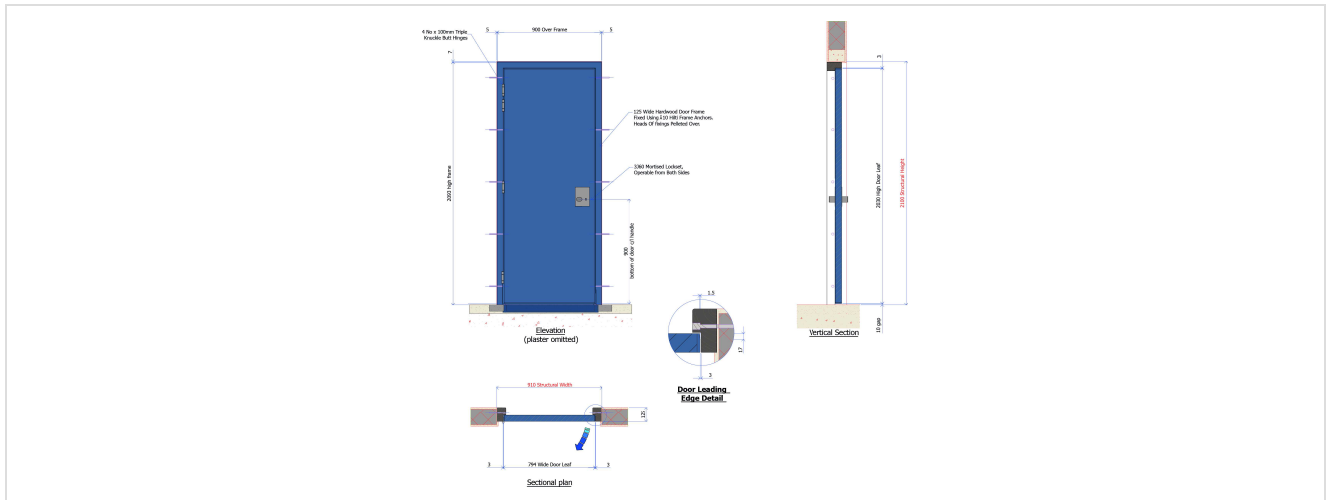
##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High
- Door Leaf 794mm Wide x 2030mm High Excluding Hinge(s) x 54mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut

#### Finish:

- Water Based Two Coat Prime Paint

## Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd solid timber door & frame personnel door with optional 60 mins fire resistance integrity typically used for staff offices, toilets etc. within custody. The door incorporates a laminated glass vision panel, Chubb 3J60 5 lever mortice deadlocking latch & knob furniture both sides and 4no. butt hinges. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

##### Door Frame

- Monolithic Hardwood Frame Section 3 Sides 125x75x50mm 25mm Rebate
- Sapele Hardwood Kiln Dried Moisture Content 10 -14% Density 640kg/m<sup>3</sup>
- Mortice & Tenon Joints
- Counterbored & Pelleted Fixings
- Frame Fixings 12mm dia x 100mm Sleeve Anchors 8no. minimum per frame

##### Door Leaf

- FD60 Certified 54mm thick Solid Timber Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles Average Density 460 - 500kg/m<sup>3</sup>
- Typically 9mm – 12mm Hardwood Lipping Bonded All 4 Edges Minimum Density 640kg/m<sup>3</sup> 15% MC
- Chubb 3J60 5 Lever Mortice Deadlocking latch with knob furniture both sides
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 4no. per Leaf
- Laminated Glass vision Panel with Hardwood Beading

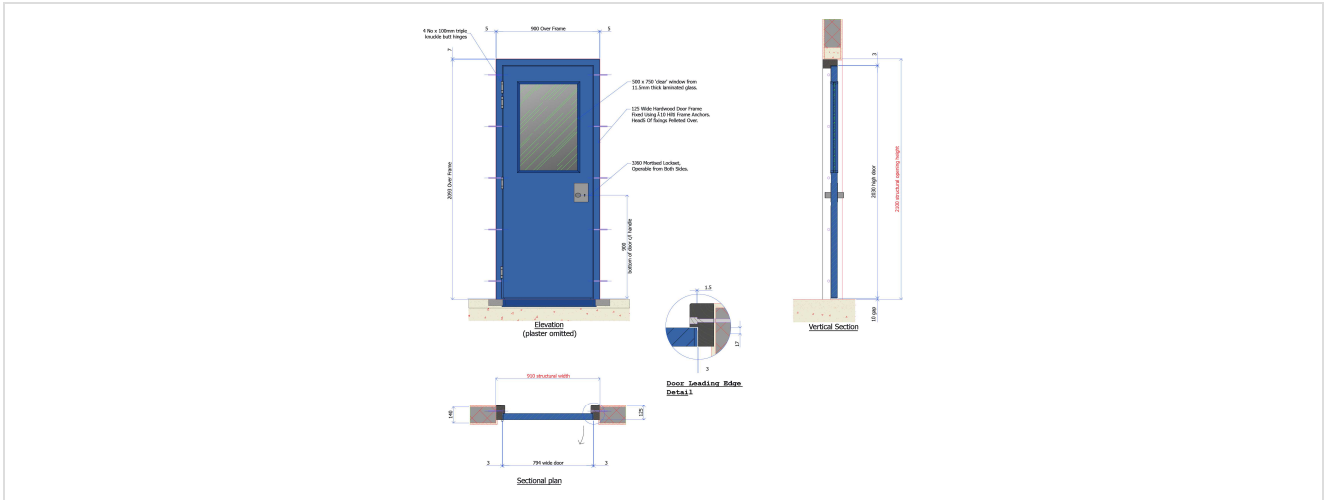
##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High
- Door Leaf 794mm Wide x 2030mm High Excluding Hinge(s) x 54mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut

#### Finish:

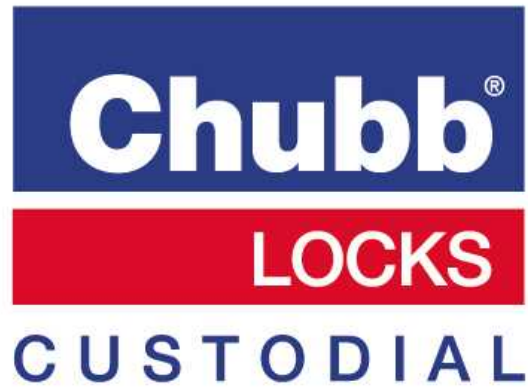
- Water Based Two Coat Prime Paint

#### Technical Design:



# Custodial Locking Range

ASSA ABLOY High Security & Safety Group (HSS) is the UK and global leader in correctional locking solutions. In this section, you will be able to examine our extensive product range, developed in close consultation with industry professionals and individually tailored to respond to the challenges faced by detention, secure healthcare and secure education facilities, the world over, every day.



# Custodial locks, keeps and ancillaries

**ASSA ABLOY**







# Cell locks

4L80

## Cell Door Food Hatch Lock

**ASSA ABLOY**

### Application:

#### Purpose

To provide a self latching mechanism to secure a food hatch in the closed position on a cell door whilst featuring a lever mechanism that can be unlocked with a Chubb 4L type key.

#### Overview

The 4L80 is an open rimmed latch lock that is designed to be mounted within the door of a custodial cell door food hatch. The latch bolt is not deadlocked and therefore the food hatch door can be closed without the need for the key. A 4L type key is then used to withdraw the latch bolt to enable opening of the food hatch door. The 4L80 can be keyed alike with the 4L lock variant on the same door if required.

#### Principal of Operation

Unlocking of the Latch Bolt & Opening The Food Hatch Door

1. Insert the key into the keyhole and rotate x degrees clockwise to withdraw the latch bolt.
2. Hold the key and latch bolt in position and pull on the key to open the food hatch door.
3. Rotate the key anticlockwise and withdraw.

Locking of the Food Hatch Door

1. Simply push the door to the closed position, the latch will withdraw and then re-extend to the closed position.  
Note: the latch is not deadlocked.

#### Standard Features

- 3 Lever latch withdrawal mechanism
- 12 mm throw latch bolt.
- Factory restricted key section.
- Open case design

### Specification:

#### Product Codes

- 4L80/001/01/S – Cell Door Food Hatch Lock

#### Additional Items - Keys

- 4L55/060/01/MK – Cell Lock Key (Master)
- 4L55/060/01/SK – Cell Lock Key (Servant)
- 4L55/060/01/W – Cell Lock Key (Stock Code W919)

#### Dimensions & Weights

- **Case Height** – 87.5 mm
- **Case Length** – 80 mm
- **Case Thickness** – 20.5 mm
- **Latch bolt throw** – 12 mm
- **Latch bolt depth** – 20.4 mm

All dimensions are approximate – customer drawing available upon request.



### Standards:

#### Performance/Testing Criteria

- Latch bolt closure 60,000 operations
- Key unlock 60,000 operations

### Finish:

# Cell locks

4L80

## Cell Door Food Hatch Lock

**ASSA ABLOY**

### **Materials and Finishes**

- Lock case – carbon steel electro-plated
- Latch bolt – brass
- Levers – brass
- Keys – Hardened Steel

#### Application:

##### Purpose

To provide secure locking of swinging doors or gates that can be unlocked from a remote location using third party security management systems (SMS) or by conventional key control. Designed to enable key and electric operation from one (3F11) or both (3F12) sides of the door.

##### Overview

The 3F11/3F12 are mortice locks of robust construction based on the Chubb Locks Custodial Services large mortice footprint. The locks are designed to deadlock automatically and to be unlocked electrically with bolt withdrawal by a motorised mechanism.



#### Specification:

##### Unlocking

- **Electric Operation** – Remote switch activates the locking solenoid and the locking dead bolt is withdrawn by the motor. When fully withdrawn the locking deadbolt is latched in position ready for the relocking operation.
- **Mechanical Operation** – Locking mechanism is operated by a mechanical key that lifts the locking solenoid and withdraws the locking dead bolt. When fully withdrawn the locking dead bolt is latched in position ready for the relocking operation.

##### Locking

- The lock automatically deadlocks when the door/gate is closed.

##### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- Heavy duty gear and motor designed to operate under high load.
- Steel main bolt with tungsten carbide anti cut rollers.
- Solenoid electric locking latch.
- 5-detainer key override mechanism.
- Lock provides status monitoring of critical functions.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3F11 / 3F12 group of locks only.

##### Performance/Testing/Criteria

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Motor/gearbox tested to a minimum of 1,000,000 cycles.
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.
- End load 8.0 kN
- Side Load 13.5 kN

##### Additional Items

- Outer steel case (Gatebox) for use when fitted to a steel door

### Motorised Slam Action Lock

- Locking plate (Keep)
- Door cable (to connect the lock to door header / junction box terminations)
- Keys – silica brass (ordered separately to the lock)

#### Dimensions & Weights (Approx)

Case Height	207mm
Case Length	238mm
Case Thickness	29mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only approx)	10.5kg

Dimensioned customer drawings are available upon request.

#### Finish:

- Lock case - carbon steel electro-plated.
- Main bolts - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Escutcheons – Silica brass.
- Detainers and springs – Brass / phosphor Bronze.

#### Application:

##### Purpose

To provide secure locking of swinging cell/bedroom doors with a 'privacy' locking facility under operation by the occupant, from within the accommodation unit only. Locks detailed in this specification also include an integral Door In Frame Sensor (DIF) to indicate the door status when used in conjunction with a suitable DIF magnet.

##### Overview

The 3F65P is a mortice lock of robust construction based on the CLCS standard large mortice lock footprint with a main bolt that can be locked in the fully thrown or fully withdrawn position. Locking is achieved by a completely separate, interchangeable inner locking unit, operable from the outside only, the vertically sliding bolt of which, engages a recess in the main bolt.

A privacy facility is also provided allowing a secondary privacy bolt to be locked or unlocked by anti-ligature furniture from the inside of the accommodation. The privacy bolt can be overridden by a key holder by extending and then withdrawing the main bolt. A clutch mechanism fitted to the internal furniture ensures that staff members always remain in control of the privacy bolt.



#### Specification:

##### Principal of Operation

- **Locking / Unlocking of the Main Bolt –**  
Locking/unlocking is achieved by a partial turn of the key and handle operation to throw or withdraw the bolt. On withdrawing the key the main bolt will be automatically left locked in the position chosen (i.e. fully thrown or unlocked). Withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown.
- **Locking / Unlocking of the Privacy Bolt –** The occupant's 'Privacy' bolt can be locked / unlocked from within the accommodation unit via the anti-ligature furniture fitted to the inside of the door. However, the door cannot be opened from the inside if the main bolt is extended and secured in frame. In addition withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown. A cover plate can also be fitted to the external side of the door to provide emergency access to the privacy mechanism.

##### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- 32mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers.
- Independent 7-lever locking mechanism (ILU).
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Status monitoring outputs of (1) Door in Frame, (2) Main Bolt Extended (3) ILU Status
- Privacy locking / unlocking operable from within the

### Morticed Mechanical Privacy Lock - Monitored

accommodation via door mounted furniture or via override by the main bolt or by removing the external cover plate.

#### Performance/Testing/Standards

- Mechanical locking mechanism tested to a minimum of 100,000 operations
- Main bolt handle mechanism tested to a minimum of 300,000 bolt operations
- Saw attack on the main bolt 12 hours
- End load 13.5 kN
- Side Load 25 kN

#### Additional Items

- Handle and escutcheon kits (not supplied with the lock). Kits can be supplied to suit various functional requirements, door thicknesses and aesthetic requirements.
- Frame mounted magnet assembly (to operate with the integral DIF sensor)
- Locking plate with integral magnet assembly.
- Gate Box
- Door cable
- Reinforcing plates for use on wooden doors
- Privacy Cylinder for corridor side of door

#### Dimensions & Weights

Case Height	207mm
Case Length	226mm
Case Thickness	29mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	11kg

#### Finish:

- Lock case – carbon steel electro-plated and powder coated exterior.
- Main bolt – carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel.
- Levers and springs – Brass / phosphor Bronze.

#### Application:

##### Purpose

To provide secure locking of swinging cell/bedroom doors with a 'privacy' locking facility under operation by the occupant.

##### Overview

The 3F65P is a mortice lock of robust construction based on the CLCS standard large mortice lock footprint with a main bolt that can be locked in the fully thrown or fully withdrawn position. Locking is achieved by a completely separate, interchangeable inner locking unit, operable from the outside only, the vertically sliding bolt of which, engages a recess in the main bolt.

A Privacy Key Facility is also provided allowing a secondary privacy bolt to be locked or unlocked by a key operated rim cylinder lock on the outside and anti-ligature furniture on the inside. The Privacy bolt can be overridden by extending and then withdrawing the main bolt and a clutch mechanism ensures that staff remain in control. The cylinder is also master keyed to provide staff control of the privacy mechanism.

- **Locking unit** – The locking unit is a self-contained 7-lever lock, independently mounted on pillars, and can be quickly removed and replaced by another such complete unit, when a change of combination is necessary. The bolt of this unit shoots downwards into a cutaway formation on the main bolt and retains it in the withdrawn or fully thrown position.
- **Main Bolt** – Locking/unlocking is achieved by a partial of the key and handle operation to throw or withdraw the bolt. On withdrawing the key the main bolt will be automatically left locked in the position chosen (i.e. fully thrown or unlocked). Withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown.
- **Under Occupant's Key** – The occupant's 'Privacy' bolt can be locked/unlocked from outside by a keyed cylinder lock or from inside by a handle or knob.

#### Specification:

##### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 32mm throw.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Privacy locking via pin tumbler cylinder

##### Additional Features

- External lever handle or dial knob options for staff operation.



#### Standards:

- Mechanical locking mechanism tested to a minimum of 100,000 operations
- Handle mechanism tested to a minimum of 300,000 bolt operations
- Privacy cylinder tested to a minimum of 100,000 operations
- Saw attack on the main bolt 12 hours
- End load 13.5 kN
- Side Load 25 kN



#### Additional Items

- Outer steel case (Gatebox) when fitted to a steel door
- Locking plate (Keep)

#### Dimensions & Weights

Case Height	207mm
Case Length	226mm
Case Thickness	29mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	11kg

#### Finish:

- Lock case – carbon steel electro-plated and powder coated exterior.
- Main bolt – carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

### Application:

#### Purpose

To provide secure locking of swinging cell doors, under conventional key control from the corridor side where automatic latching and deadlocking using a key is a requirement.

#### Overview

The 3R47 is a morticed sprung latch bolt lock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. The latch bolt provides an overall throw of 20mm. The lock offers a number of keying and handle configurations to suit a variety of operational requirements and is fitted with an external visual indicator. Secure locking can be achieved as follows:

#### Single Locking Action -Keyed to pass or to differ

- Locking is achieved by inserting the key into the keyhole and rotating fully. This action will both deadlock the latchbolt and lock the handle in position.
- Unlocking is achieved by inserting a key into the keyhole and rotating fully. This action will release the latchbolt and unlock the handle. The latchbolt is then withdrawn using the handle.

#### Double Locking Action

##### Singles Key – Operates single locking action only

- Locking / Unlocking as above.

*Note the Servant key will not operate the double locking action.*

##### Doubles Key – Operates double locking action

- Locking, providing the singles key has been used to operate the first locking action, the master key can be utilised. By inserting the doubles key into the keyhole and rotating fully over-locking will be achieved. The singles key will be disabled and unauthorised use of the singles key will be prevented.
- Unlocking is achieved by inserting the doubles key into the keyhole and rotating fully, this action will remove the over-locking enabling operation of the singles key.

*Note: the lock can be configured to operate the double locking action only or if required to operate both single and double locking actions from a single key.*



### Specification:

#### Features

- Carbon steel latchbolt, with carbide anti-cutting rollers and 20mm throw.
- 7 lever highly durable mechanism.
- Configurable to three key options – Single Action (1 key), Double Action (1 key) or Double Action (2 keys).
- Dedicated key profile operates 3R47 range of locks only.
- Tamper resistant Aluminium fascia plate with status indicator.
- Security fixings to prevent unauthorised removal.

#### Performance

- Lock tested to a minimum of 100,000 key operations.

## 3R47

### Morticed Latch Lock

- Handle operation tested to 300,000 operations.
- Latch action tested to 150,000 operations.
- Saw attack 30 minutes
- End load 13.5 kN
- Side Load 13.5 kN

#### Additional Features

- Optional inner handle available on request.
- Suitable for internal use only.
- Available in alternative furniture finishes on request.
- Gate boxes for steel door applications recommended.

#### Total Range

- The lock is available in left or right hand variants for opening in or opening out doors and can be fitted to steel or wooden doors. For applications requiring cell side furniture a range of options are available on request.
- Lock is suitable for use on all door types, however on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.

#### Dimensions & Weights

Lockcase depth	171.5mm
Lockcase length	114.2mm
Lockcase width	21.0mm
Weight (lock only)	3.0kg

#### Application:

##### Purpose

To provide secure locking of swinging cell doors, under conventional key control where automatic deadlocking is a requirement.

##### Overview

The 4L55 and 4L56 are surface mounted locks of robust construction based on the Chubb Lock Custodial Services standard cell lock footprint. The main bolt is automatically extended providing a throw of 32mm and deadlocked on closure of the door.

The 4L55 is designed to be mounted flush with the door skin whereas the 4L56 is designed to be mounted on the door skin itself.

**Note:** An alternative fixing method can be used to enable mounting of the 4L56 variant flush with the door skin.

Secure locking is achieved as follows:

- Unlocking is achieved by a partial turn of the key which lifts the internal blocking mechanism enabling the withdrawal of the main bolt by the handle. The bolt is then retained automatically when fully retracted and door is out of frame.
- Locking is achieved automatically; on closure of the door the brass snib bolt is depressed on contact with the strike plate mounted to the frame this then releases the main bolt. Deadlocking occurs when the main bolt is fully extended allowing the internal blocking mechanism to engage.
- The lock has an external visual indicator mechanism, which enables staff to verify the status of the lock.



#### Specification:

##### Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers and 32mm throw.
- Brass quick acting stud release mechanism.
- External visual locking status indication.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- 5 bolt secure fixing.
- Integral baffle arrangements to resist interference via the keyhole.
- Escutcheon designed to give positive key alignment.

##### Performance

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Handle mechanism tested to a minimum of 300,000 bolt operations.
- Stud release mechanism tested to a minimum of 300,000 operations
- Saw attack 12 hours
- End load 20 kN
- Side Load 25 kN

### Mechanical Slam Action Cell Lock

#### Additional Features

- Range of Anti-Ligature or 'T' handle furniture options available.
- Range of fixings including backplates, stud fixings, locking plate and keeps.
- Available in alternative paint / furniture finishes on request.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.
- Interchangeable mechanical inner locking unit to enable re-coding.
- Can be configured to differ or to pass.

#### Total Range

- The lock is available in left or right hand variants for opening in or opening out doors and can be fitted to steel or wooden doors. A range of backplate stud lengths is available to suit door thicknesses from 25 to 70mm.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Case Height	286mm
Case Length	267mm
Case Thickness	30mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only) 4L55	10.5kg
Weight (lock only) 4L56	12.0kg

#### Finish:

- Lock case - carbon steel electro-plated and powder coated exterior.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys - Hardened Steel
- Levers and springs - Brass / phosphor Bronze.

### Application:

#### Purpose

To provide secure locking of swinging cell doors, under conventional key control where a lock back facility is a requirement.

#### Overview

The 4L65 is a surface mounted lock of robust construction based on the Chubb Lock Custodial Services standard cell lock footprint. The main bolt is an un-sprung rectangular deadbolt providing of throw of 32mm. Variants of the lock allow for mounting on or flush with the door skin.

Secure locking is achieved as follows:

- Locking/unlocking is achieved by a partial turn of the key allowing the handle to throw or withdraw the bolt. When the key is withdrawn the main bolt can be left in two positions fully thrown (i.e secure when door in frame) or bolt fully withdrawn and locked back.



### Specification:

#### Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 32mm throw.
- External visual locking status indication.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- 5 bolt secure fixing.
- Integral baffle arrangements to resist interference via the keyhole.
- Escutcheon designed to give positive key alignment.

#### Performance

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Handle mechanism tested to a minimum of 100,000 bolt operations.
- Saw attack 12 hours
- End load 13.5 kN
- Side Load 25 kN

#### Additional Features

- Range of furniture options available.
- Range of fixings including backplates, stud fixings, locking plate and keeps.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.
- Interchangeable mechanical inner locking unit to enable re-coding.
- Can be configured to differ or to pass.
- Main Bolt and Inner Locking Unit can have monitoring facility.

#### Total Range

- The lock is available in left or right hand variants and can be fitted to steel or wooden doors. A range of backplate stud lengths is available to suit door thicknesses from 25 to 70mm.
- Fully dimensioned customer drawings are available on

### Mechanical Cell Lock

request to assist with door preparation.

#### Dimensions & Weights

Case Height	286mm
Case Length	267mm
Case Thickness	29mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	12kg

#### Finish:

- Lock case - carbon steel electro-plated and powder coated exterior.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

### Application:

#### Purpose

To provide secure locking of swinging cell doors, under conventional key control. Additional "privacy" locking mechanism to provide a level of privacy and security for the cell occupant, the privacy function can always be overridden by the staff key.

#### Overview

The 4L65P is a surface mounted lock of robust construction based on the Chubb Lock Custodial Services standard cell lock footprint. The main bolt is an un-sprung rectangular deadbolt providing a throw of 32mm. Variants of the lock allow for mounting on or flush with the door skin.

- Locking/unlocking is achieved by a partial of the key and handle operation to throw or withdraw the bolt. On withdrawing the key the main bolt will be automatically left locked in the position chosen (i.e. fully thrown or unlocked). Withdrawal of the main bolt will automatically withdraw the occupant's 'privacy' bolt if thrown.
- Under Occupant's Key – The occupant's 'Privacy' bolt can be locked/unlocked from outside by a keyed cylinder lock or from inside by a handle or knob.



### Specification:

#### Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers and 32mm throw.
- External visual locking status indication.
- Independent 7-lever locking mechanism.
- Factory restricted key sections.
- 5 bolt secure fixing.
- Integral baffle arrangements to resist interference via the keyhole.
- Privacy facility using secondary mechanism.
- Internal knob with clutch mechanism to ensure staff always have control of lock
- Escutcheon designed to give positive key alignment.

#### Performance

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Handle mechanism tested to a minimum of 100,000 bolt operations.
- Saw attack 12 hours
- End load 13.5 kN
- Side Load 25 kN

#### Additional Features

- Range of furniture options available.
- Range of fixings including backplates, stud fixings, locking plate and keeps.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.
- Interchangeable mechanical inner locking unit to enable



### Mechanical Cell Lock with Privacy Facility

re-coding.

- Can be configured to differ or to pass.
- Main Bolt and Inner Locking Unit can have monitoring facility.

#### Total Range

- The lock is available in left or right hand variants and can be fitted to steel or wooden doors. A range of backplate stud lengths is available to suit door thicknesses from 25 to 70mm.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Case Height	286mm
Case Length	267mm
Case Thickness	30mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	12kg

#### Finish:

- Lock case - carbon steel electro-plated and powder coated exterior.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.
- Inside knob Stainless Steel

# Cell locks

4L78

## Electro-Mechanical Cell Lock

**ASSA ABLOY**

### Application:

#### Purpose

To provide secure locking of swinging cell doors using third party security management systems (SMS) or conventional key control, whilst providing a means for remote occupant release and bolt withdrawal via an internal handle.

#### Overview

The 4L78 is a surface mounted lock of robust construction based on the Chubb Lock Custodial Services standard cell lock footprint. The main bolt is a sprung latch providing a throw of 25mm, secure locking is achieved by two independent methods:

- **Electrical Mode** – Locking/unlocking by 24 Volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle (externally by staff or internally by occupant), which should also be used when closing the door.
- **Manual Mode** – Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle, which should also be used when closing the door. Key operates from corridor side only.
- **Manual Override** – In the event of power or communication failure an override key is used to disable electric locking function. ***The lock will operate if slammed to shut, however, CLCS recommend that in normal operation the handle is used to withdraw the bolt when closing.***



### Specification:

#### Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 25mm throw.
- Dual solenoid electric locking latch.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Lock provides status monitoring outputs for critical functions and tamper.
- 5 bolt secure fixing.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.

#### Performance

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Handle mechanism tested to a minimum of 300,000 bolt operations
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.
- Saw attack 12 hours
- End load 13.5 kN
- Side Load 25 kN

#### Additional Features

- Can be configured to provide cell side furniture to be used where remote release is desirable.
- Range of fixings including backplates, stud fixings, locking plate and keeps.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.
- Interchangeable mechanical inner locking unit to enable re-coding.
- This lock is not available under a master key system.

#### Total Range

- The lock is available in left or right hand variants for opening in or opening out doors and can be fitted to steel or wooden doors. A range of spindle and backplate stud lengths is available to suit door thicknesses from 25 to 70mm.
- Detailed technical details are available on request for this product.

#### Dimensions & Weights

Case Height	286mm
Case Length	267mm
Case Thickness	30mm
Bolt Throw	25mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	12kg

#### Finish:

- Lock case - carbon steel electro-plated and powder coated exterior.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

### Application:

#### Purpose

To provide secure locking of swinging cell doors using third party access control systems or conventional key control where automatic deadlocking is a requirement.

#### Overview

The 4L79 is a surface mounted lock of robust construction based on the Chubb Locks Custodial Services standard cell lock footprint. The main bolt is automatically extended providing a throw of 32mm and deadlocked on closure of door.

- **Electrical Mode** – Deadlocking is achieved when the door is closed and the bolt fully extended, no electric input is required to lock. Unlocking by 24 Volt DC from an external source to energise (lift) the locking solenoid and withdrawing the bolt via the handle. The bolt remains retracted when fully withdrawn and out of frame. Solenoid is designed to be momentarily energised to facilitate un-locking.
- **Mechanical Locking** – Locking achieved using conventional (mechanical key) to engage a secondary deadlock when the door is in frame and main bolt is fully extended. Electric unlocking cannot be achieved while the mechanical locking mechanism is engaged.
- **Manual Override** – In the event of power or communication failure an override key is used to lift (override) the electric locking unit. Both keys are supplied to a different combination and are clearly identified.



### Specification:

#### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 32mm throw.
- Unique solenoid electric locking latch.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Lock provides status output of critical functions.
- 5 bolt secure fixing.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.

#### Performance/Testing/Standards

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Handle mechanism tested to a minimum of 300,000 bolt operation.
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Solenoids designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 250mA.
- Saw attack 12 hours
- End load 8.0 kN

### Electromechanical Slam Action Cell Lock

- Side Load 25 kN

#### Additional Features

- Anti-Ligature handle and escutcheon design.
- Range of fixings including back plates, stud fixings, locking plate and keeps.
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock)
- This lock is not available under a master key system.

#### Options

- The lock is available in left or right hand variants for opening in or opening out doors and can be fitted to steel or wooden doors.

#### Dimensions & Weights

Case Height	286mm
Case Length	267mm
Case Thickness	30mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	12kg

#### Finish:

- Lock case - carbon steel electro-plated and powder coated exterior.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

### Application:

#### Purpose

To provide secure locking of swinging cell doors using third party security management systems (SMS) or conventional key control. The lock can be configured to provide a softer aesthetic appearance without reducing security.

#### Product Codes

- 3F51/002/01/S LOCK ASSY RIGHT HAND REVERSE
- 3F51/002/02/S LOCK ASSY LEFT HAND REVERSE
- 3F51/002/03/S LOCK ASSY RHR ANTI LIG DOME HDLS
- 3F51/002/04/S LOCK ASSY LHR ANTI LIG DOME HDLS

#### Overview

The 3F51 is a mortice lock of robust construction. The main bolt is a sprung latch providing a throw of 25mm, secure locking is achieved by two independent methods:

**Electrical Mode:** Locking/unlocking by 24 volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when closing the door.

**Manual Mode:** Locking/unlocking achieved using conventional (mechanical) key. Bolt withdrawal by handle, which should also be used when closing the door. Key operates from corridor side only.

**Manual Override:** In the event of power or communication failure an override key is used to disable electric locking function.

The lock will operate if slammed to shut, however, we recommend that in normal operation the handle is used to withdraw the bolt when closing.

#### Standard Features

- Solid Case Technology - lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers and 25mm throw.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.
- Unique dual solenoid electric locking latch.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.

### Specification:

#### Dimensions & Weights

- Case Height – 206 mm
- Case Length – 229 mm
- Case Thickness – 29 mm
- Dead bolt throw – 25 mm
- Dead bolt depth – 45 mm
- Dead bolt thickness – 22 mm
- Weight (lock only) – 12.5Kg

All dimensions are approximate – customer drawing available upon request.



### Standards:

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Saw attack on the main bolt 12 hours.
- Side and End Load 13.5KN
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.

### Finish:

#### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - carbon steel electro-plated.
- **Main bolt follower** - high tensile brass.
- **Keys** - hardened steel.
- **Levers and springs** - Brass/phosphor bronze.

#### Options

- Various furniture options are available upon request

#### Additional Items

- Gatebox
- Lock interface unit for operation with commercial access control systems
- Door cable

### Application:

#### Purpose

To provide secure locking of swinging cell doors, under conventional key control where automatic deadlocking is a requirement.

#### Product Codes

3F56/002/01/S - RHOI STD ILU to suit T handle  
3F56/002/03/S - LHOI STD ILU to suit T handle  
3F56/002/05/S - RHOI STD ILU to suit lever handle  
3F56/002/06/S - RHOI STD ILU to suit lever handle  
3F56/002/07/S - LHOI STD ILU to suit lever handle  
3F56/002/08/S - LHOI STD ILU to suit lever handle  
3F56/003/01/S - RHOI SUITED ILU to suit lever handle  
3F56/003/02/S - LHOI SUITED ILU to suit lever handle  
3F56/003/03/S - RHOI SUITED ILU to suit lever handle  
3F56/003/04/S - LHOI SUITED ILU to suit lever handle

#### Overview

The 3F56 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. The main bolt is automatically extended providing a 32mm throw and deadlocked on closure of the door (4.8mm gap maximum - forend to mating surface).

Secure unlocking / locking is achieved as follows:

Unlocking is achieved by a partial turn of the servant key which lifts the internal blocking mechanism enabling the withdrawal of the main bolt by the handle. The bolt is then retained automatically when fully retracted and the door is out of frame.

Locking is achieved automatically; on closure of the door the brass snib bolt is depressed on contact with the strike plate mounted to the frame, this then releases the main bolt. Deadlocking occurs when the main bolt is fully extended allowing the internal blocking mechanism to engage.

Use of the master key (by rotating the top of the key towards the front of the lockcase when the ILU bolt is in the locked position) will further extend the ILU bolt which disables use of the servant key. The servant key can be re enabled by rotating the top of the master key towards the rear of the lockcase.

#### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with integral passive magnet, carbide anti-cutting rollers, and 32mm throw.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.



### Standards:

- Mechanical locking mechanism tested to a minimum of 100,000 operations
- Handle mechanism tested to a minimum of 300,000 bolt operations
- Saw attack on the main bolt 12 hours
- End load 13.5 KN
- Side Load 25 KN

### Specification:

#### Lock Dimensions (Approx)

- Case Height - 207mm
- Case Length - 220mm
- Case Thickness - 29mm



## 3F56

### Heavy Duty Morticed Mechanical Slam Action Cell Lock

- Bolt Throw – 32mm
- Bolt Depth – 45mm
- Bolt Thickness – 22mm

Dimensioned customer drawings are available upon request.

#### Finish:

##### Materials and Finishes

- Lock case – Carbon steel electro-plated.
- Main bolt – Carbon steel electro-plated.
- Main bolt follower - High tensile brass.
- Levers and springs – Brass / phosphor Bronze.

##### Additional Items

- Keys – hardened steel (ordered separately to the lock)
- 3F56/052/01/S – Lever Handle Furniture Kit RH
- 3F56/052/02/S – Lever Handle Furniture Kit LH
- Other furniture options available upon request

## Application:

### Purpose

To provide secure locking of swinging cell doors, under conventional key control where a lock back facility is a requirement. The lock can be configured to provide a softer aesthetic appearance without reducing security.

### Product Codes

3F65/002/01/S LOCK ASSY RIGHT HAND REVERSE

3F65/002/02/S LOCK ASSY LEFT HAND REVERSE

### Overview

The 3F65 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. The main bolt is an un-sprung rectangular deadbolt providing a throw of 32mm.

Locking/unlocking is achieved by a full turn of the key allowing the handle to throw or withdraw the bolt. When the key is withdrawn the main bolt can be left in two positions - fully thrown (ie secure when door in frame) or bolt fully withdrawn and locked back.

### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 32mm throw.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist interference via the keyhole.
- Escutcheon designed to give positive key alignment.
- External handle designed to shear under excessive load to prevent damage to internal lock mechanism.

### Additional Features

- Optional external status indicator.
- Can be keyed to the existing CLCS 4L range of cell locks.
- Interchangeable mechanical inner locking unit to enable re-coding.
- Can be configured to differ, to pass or under a master key scheme.



## Standards:

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Saw attack on the main bolt 12 hours.
- Side and End Load 13.5KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

## Specification:

### Dimensions & Weights

- **Case Height** – 206 mm
- **Case Length** – 229 mm
- **Case Thickness** – 29 mm
- **Dead bolt throw** – 25 mm
- **Dead bolt depth** – 45 mm
- **Dead bolt thickness** – 22 mm
- **Weight** (lock only) – 12.5Kg

All dimensions are approximate – customer drawing available upon request.

#### Finish:

##### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - carbon steel electro-plated.
- **Main bolt follower** - high tensile brass.
- **Keys** - hardened steel.
- **Levers and springs** - Brass/phosphor bronze.

##### Additional Items

- Range of furniture options available.
- Range of fixings including gatebox, locking plate and keep.

### Application:

#### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging cell doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile. The key is supplied to enable an override (unlocking) for the electric locking if power fails.

Note (1): The Chubb 5 lever mechanism fitted to the 3L215 can not be used to mechanically lock the latch bolt – it can only be used to unlock the electric locking mechanism.

Note (2): The Chubb 5 lever mechanism fitted to the 3L215 can not be master keyed. Please contact CLCS if a master key mechanism is required as an alternative product is available.

Note (3): The latch bolt can only be withdrawn by operating the handle mechanism.

#### Overview

The 3L215 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended. The latch bolt cannot be electrically locked back when fully withdrawn.

#### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is engaged. Unlocking is achieved by 24 Volt DC supply from an external source to energise (lift) the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the unlocked state when the door is out of frame.

#### Manual Override

In the event of power or communication failure an override key is used to override the solenoid locking bolt.

#### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever override mechanism.
- Factory restricted key section.
- Status output – secure / insecure
- Pick resistant mechanism with protective curtain.

#### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).

### Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2

- This lock can be supplied in groups keyed alike.

### Finish:

#### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

#### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Handle & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 – Chrome Silver Painted
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated with Triklad high performance Trivalent Coating
- **Lock Installation Cable** - Standard 3 or 10 metre pre wired cable or site cable available upon request.

### Application:



#### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging cell doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile or as an option Chubb 7 lever master keyed locking unit. The key is supplied to allow the lock to be mechanically secured and monitored.

#### Overview

The 3L217 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended and door inframe. The latch bolt cannot be electrically locked back when fully withdrawn.

#### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is energised +24 Volt DC to engage. Unlocking is achieved by de-energising the 24 Volt DC supply from an external source to lift the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the locked state when the door is in frame.

#### Manual Override

The lock is not provided with a manual override. If power fails the locking solenoid will automatically disengage.

#### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever locking mechanism.
- Locks can be keyed alike or keyed to differ
- Factory restricted key section.
- Status output – secure / insecure, door inframe and mechanical locking status.
- Pick resistant mechanism with protective curtain.

#### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).
- This lock can be supplied in groups keyed alike.
- Master keyed option using Chubb 7 lever mechanism.

### Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2

### Specification:

#### Materials and Finishes

### Mortice Electro-Mechanical Cell Lock with DIF Sensor

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate to CM5 M1047
- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

#### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Knob & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 - Polished and plated.
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated to CM5 M1047
- **N35 Magnet** - BN017A 6MM X 25MM
- **Lock Installation Cable** - 3 or 10 metre (or custom length to suit)

### Application:

#### Purpose

Latch bolt lock to provide electric and mechanical locking / unlocking of swinging cell doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid and a Chubb 7 lever mechanical mechanism can also be used to both lock and unlock the 3L218. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked either mechanically or electrically.

#### Overview

The 3L218 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended and the door is in frame. The latch bolt cannot be locked back when fully withdrawn.

#### Electrical Mode

Locking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is engaged. Unlocking is achieved by 24 Volt DC supply from an external source to energise (lift) the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the unlocked state when the door is out of frame.

#### Mechanical Mode

Mechanical dead locking is achieved using a conventional Chubb mechanical key and 7 lever mechanical mechanism to engage a secondary deadlock when the main bolt is fully extended. Electric unlocking cannot be achieved while the mechanical locking mechanism is engaged.

#### Manual Override

In the event of power or communication failure an override key is used to override the solenoid locking bolt. Both keys, Mechanical and Override, are supplied to a different combination and are clearly identified.

#### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Chubb 7-lever override and mechanical deadlock mechanism.
- Factory restricted key section.
- 1 metre fly lead without connected socket
- Status output – secure / insecure / deadlocked

#### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock as standard).
- Door cable available in 3M or 10M lengths (not supplied with lock).
- This lock can be supplied in groups keyed alike.

### Standards:

- Mechanical override mechanism tested to a minimum of 100,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2

### Finish:

#### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate with Triklad high performance



### Mortice Electro-Mechanical Cell Lock with DIF Sensor

Trivalent Coating

- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Keys** - Mild Steel to BS EN10083 – C22E Natural

#### **Additional Items / Furniture**

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Handle & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 – Chrome Silver Painted
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated with Triklad high performance Trivalent Coating
- **Lock Installation Cable** - 3 or 10 metre pre wired cable or site cable available upon request.

#### Application:

##### Purpose

To provide secure locking of swinging cell doors controlled by Atlas® LCMS software or conventional key control when automatic deadlocking is a requirement. Atlas® LCMS software provides a range of operating functionality which can be configured to suit each site.

##### Overview

The 4A79 is a surface mounted lock of robust construction based on the Chubb Locks Custodial Services standard cell lock footprint. The main bolt is automatically extended providing a throw of 32mm and deadlocked on closure of door.

- **Electronic Mode** – Deadlocking is achieved when the door is closed and the bolt fully extended. Unlocking is achieved by inserting an electronic token (key) into the lock. After authentication an input signal is provided to lift the blocking device that permits withdrawing the bolt via the handle. The bolt remains retracted when fully withdrawn and out of frame. The lock can also be configured to provide features such as anti-shut in and cell check functions. Additionally remote operation can be achieved via Atlas® Client / Mimic PC.
- **Manual Mode** – Locking/unlocking is achieved using conventional (mechanical key). Bolt withdrawal by handle. Key operates from corridor side only.
- **Manual Override** – In the event of power or communication failure an override key is used to lift the electric locking unit. Both keys are supplied to a different combination and are clearly identified.



#### Specification:

##### Solid Case Technology; Lock case machined from single piece carbon steel.

- Steel main bolt, with carbide anti-cutting rollers, and 32mm throw.
- Solenoid electric locking latch.
- Visual lock status indication via integral LED.
- Intelligent lock which will continue to operate in the absence of LCMS server.
- Independent 7-lever locking mechanism.
- Factory restricted key section.
- Integral door in frame sensor.
- 5 bolt secure fixing.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.

##### Performance

- Mechanical locking mechanism tested to a minimum of 100,000 operations.
- Handle mechanism tested to a minimum of 300,000 bolt operations
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA .

### Electronic Slam Action Cell Lock

- Saw attack 12 hours
- End load 13.5 kN
- Side Load 25 kN

#### Additional Features

- Anti-Ligature handle and escutcheon design.
- Range of fixings including backplates, stud fixings, locking plate and keeps.
- Interchangeable mechanical inner locking unit to enable re-coding.

#### Total Range

- The lock is available in left or right hand variants for opening in or opening out doors and can be fitted to steel or wooden doors.

#### Dimensions & Weights

Case Height	286mm
Case Length	267mm
Case Thickness	30mm
Bolt Throw	32mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	12kg

#### Finish:

- Lock case - carbon steel electro-plated and powder coated exterior.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.



## Application:

### Purpose

To provide secure locking of swinging pass doors controlled by Atlas® LCMS software or conventional key control. Atlas® LCMS software provides a range of operating functionality which can be configured to suit each site.

### Overview

The 3A63 is a mortice lock of robust construction based on the Chubb Locks Custodial Services standard large mortice footprint. The main bolt extends by 25mm and is operated turning the handle to both lock and unlock. The lock is designed to accept inputs from tokens and can be programmed to enable a range of time / date driven access permissions. Locks can also be controlled remotely from a control room environment.

- **Electronic Mode** – Deadlocking is achieved by closing the door and turning the handle to fully extend the bolt. Unlocking is achieved by inserting an electronic token (key) into the lock which, after authentication, an input signal is provided to lift the blocking device and withdrawing the bolt via the handle. The lock can also be configured to provide features such as auto-relock, door insecure time out etc. Additionally remote operation can be achieved via Atlas® Client / Mimic PC.
- **Manual Mode** – Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle. Key operates from both sides of the door
- **Manual Override** – In the event of power or communication failure an override key is used to lift the electric locking unit. Both keys are supplied to a different combination and are clearly identified.



## Specification:

### Features

- Solid Case Technology; Lock case machined from single piece carbon steel.
- Steel main bolt, with carbide anti-cutting rollers, and 25mm throw.
- Solenoid electric locking latch.
- Visual lock status indication via LED.
- Intelligent lock which will continue to operate in the absence of LCMS server.
- Independent 8-lever locking mechanism.
- Factory restricted key section.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.

### Performance

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Handle mechanism tested to a minimum of 1,000,000 bolt operations
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.

### ATLAS® Electronic Pass Lock

- Nominal operating current 500mA .
- Saw attack 12 hours
- End load 13.5 kN
- Side Load 25 kN

#### Additional Features

- Robust handle and escutcheon design.
- T-handle
- Range of fixings including gate box, transition plates with fixings and locking plate.
- Interchangeable mechanical inner locking unit to enable re-coding.
- This lock is not available under a master key system.

#### Total Range

- The lock is available in left or right hand variants and can be fitted to steel or wooden doors.

#### Dimensions & Weights

Case Height	208mm
Case Length	239mm
Case Thickness	29mm
Bolt Throw	25mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	10.4kg

#### Finish:

- Lock case - carbon steel electro-plated.
- Main bolt - carbon steel electro-plated.
- Main bolt follower high tensile brass.
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

#### Application:

##### Purpose

To provide secure deadlocking of swinging doors or gates where an enhanced level of security is necessary. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes.

##### Overview

The 3G112 Mark 1 is a mortice deadlock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. The mechanical deadbolt provides an overall throw of 34mm which comprises an initial throw of 17mm and a second throw of a further 17mm.

The lock is designed so that the doubles key will perform both the first and second throw, while the singles key will operate the first throw only.

The lock is operable from both sides with separate key holes for each key type. The escutcheon is designed to prevent the incorrect key being inserted into the lock.

Secure locking is achieved by two independent keys:

##### Singles Key – Operates first throw only

- Locking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will extend the bolt to its first position.
- Unlocking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will withdraw the bolt.

**Note** the singles key will not operate the second (doubles) throw.

##### Doubles Key – Operates first and second throw

- Locking, by inserting the doubles key into the offset keyhole and rotating fully the bolt can be thrown to its first position. A further rotation of the key will throw the bolt to its second position, preventing the servant key operating the lock.
- Unlocking is achieved by inserting the doubles key into the offset keyhole and rotating fully. This action will withdraw the bolt to either enable operation under servant key or by a further rotation to fully withdraw the bolt to unlock.

**Note** the doubles key will operate both throws.



#### Specification:

##### Features

- Composite deadbolt, with carbide anti-cutting rollers and 34mm throw.
- 16 lever highly durable mechanism.
- Independent single and double actions.
- Low friction key journals.
- Lever arrangement designed to provide extended product life.
- Dedicated key profiles.
- Escutcheon designed to give positive key alignment.
- Security fixings to prevent unauthorised removal.

##### Performance

- Lock tested to a minimum of 500,000 key operations.

## 3G112 Mark 1

### Morticed Deadlock – Double Action

- Saw attack 12 hours
- End load 13.5kN
- Side Load 13.5 kN

#### Additional Features

- Suitable for external and internal use.
- Range of fixings including reinforcing plates and locking plates.
- Available in alternative furniture finishes on request.
- Can be keyed with 3M56 Mark 1 Hook Bolt
- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Rebate kit available for wooden door applications
- Monitored versions available with micro-switch sensing of bolt position.
- Single sided version available on request.
- Singles key operation only version available on request.
- Doubles key operation only version available on request.

#### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** Wooden Doors: This lock should be fitted to a wooden door with a minimum thickness of 54mm. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase height	114mm
Lockcase width	21mm
Weight (lock only)	2.1kg

#### Finish:

- Lock case – carbon steel electro-plated.
- Bolt – stainless steel and brass composite.
- Escutcheons – silica brass
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze



#### Application:

##### Purpose

To provide secure deadlocking of swinging doors or gates where an enhanced level of security is necessary. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes.

##### Overview

The 3G112 Mark 2 is a mortice deadlock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. The mechanical deadbolt provides an overall throw of 34mm which comprises an initial throw of 17mm and a second throw of a further 17mm.

The lock provides two independent bolt throws where each throw is operated by a unique key. The keys are designed so that neither key will perform the function of the other key.

The lock is operable from both sides with separate key holes for each key type. The escutcheon is designed to prevent the wrong key being inserted into the lock.

Secure locking is achieved by two independent keys:

##### Singles Key – Operates first throw only

- Locking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will extend the bolt to its first position.
- Unlocking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will withdraw the bolt.

**Note** the Singles key will not operate the second (Doubles) throw.

##### Doubles Key – Operates second throw only

- Locking, providing the singles key has been used to operate the first throw, the doubles key can be utilised. By inserting the doubles key into the offset keyhole and rotating fully the bolt will be thrown to its maximum extent and preventing operation by the servant key.
- Unlocking is achieved by inserting the doubles key into the offset keyhole and rotating fully, this action will withdraw the bolt to enable operation under servant key.

**Note** the Doubles key will not operate the first (Single) throw.



#### Specification:

##### Features

- Composite deadbolt, with carbide anti-cutting rollers and 34mm throw.
- 16 lever highly durable mechanism.
- Independent single and double actions.
- Low friction key journals.
- Lever arrangement designed to provide extended product life.
- Dedicated key profiles.
- Escutcheon designed to give positive key alignment.
- Security fixings to prevent unauthorised removal.

##### Performance

## 3G112 Mark 2

### Morticed Deadlock – Double Action

- Lock tested to a minimum of 500,000 key operations.
- Saw attack 12 hours
- End load 13.5kN
- Side Load 13.5 kN

#### Additional Features

- Suitable for external and internal use.
- Range of fixings including reinforcing plates and locking plates.
- Available in alternative furniture finishes on request.
- Can be keyed with 3M56 Mark 2 Hook Bolt
- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Rebate kit available for wooden door applications
- Monitored versions available with micro-switch sensing of bolt position.
- Single sided version available on request.
- Singles key action only, version available on request.

#### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** Wooden Doors: This lock should be fitted to a wooden door with a minimum thickness of 54mm. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase height	114mm
Lockcase width	21mm
Weight (lock only)	2.1kg

#### Finish:

- Lock case - carbon steel electro-plated.
- Bolt – stainless steel and brass composite.
- Escutcheons – silica brass
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze.

# Pass locks

## 3G112 Mark 3

### Morticed Deadlock – Single Action

#### Application:

##### Purpose

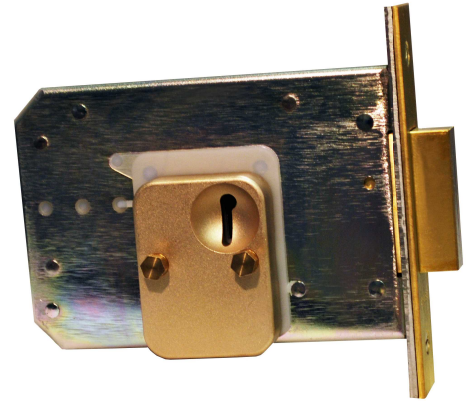
To provide secure locking of swinging pass / control doors and gates where positive locking by a mechanical key is required.

##### Overview

The 3G112 Mark 3 is a mortice deadlock of robust construction based on the Chubb Locks Custodial Services small mortice lock footprint. The mechanical deadbolt provides a throw of 17mm.

The lock provides deadlocking operated by a unique key profile to the Mark 3 range of locks and will not operate Mark 1 or Mark 2 lock variants. The lock is operable from both sides and the escutcheon is designed to allow only the correct key profile to be inserted into the lock.

**Note:** This lock cannot be master keyed.



#### Specification:

##### Principal of Operation

- **To Deadlock** – Insert the key in to the escutcheon and rotate once (top of the key rotates towards the door edge)
- **To Unlock** – Insert the key in to the escutcheon and rotate once (top of the key rotates away from the door edge)

##### Standard Features

- Heavy Duty Electroplated Steel cap and case
- 17mm throw laminated bolt fitted with anti-saw Tungsten Carbide rollers
- 12 lever key mechanism (6 for the purpose of differing)
- Factory restricted hardened steel one piece key
- Nylon key journals moulded to the cap and case to increase wear resistance
- Security fixing screws
- Microswitch versions feature bolt status monitoring

##### Performance/Testing/Criteria

- Mechanical locking mechanism tested to a minimum of 500,000 operations
- Saw attack on the main bolt 12 hours
- End load 13.5 kN
- Side Load 13.5 kN
- Impact tested to UK Government requirements

##### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** Wooden Doors: This lock should be fitted to a wooden door with a minimum thickness of 54mm. Please contact CLCS for guidance if alternative wooden door thicknesses are required.

##### Dimensions & Weights (Approx)

Case Height	114mm
Case Length	171mm
Case Thickness	21mm

# Pass locks

## 3G112 Mark 3

### Morticed Deadlock – Single Action

Bolt Throw	17.4mm
Bolt Depth	58.7mm
Bolt Thickness	16.5mm
Weight (lock only)	2.5kg

#### Finish:

- Lock case – carbon steel electro-plated
- Main bolt – stainless steel bolt tail with brass bolt heads and running blocks. Stainless Steel bolt head & blocks are available
- Escutcheons – investment cast brass natural
- Faceplate – Brass
- Keys – Hardened Steel
- Levers and springs – Brass / phosphor Bronze.

#### Application:

##### Purpose

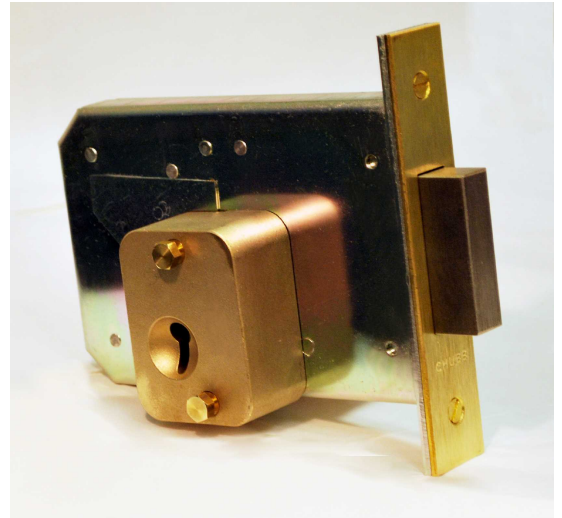
To provide secure deadlocking of swinging doors or gates where a greater range of keying options is desirable. This lock is designed for high usage applications and is also suitable for specialised applications such as explosive containers and armouries.

##### Overview

The 3G317 is a mortice deadlock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. The mechanical deadbolt can be supplied with single throw of 20mm or a double throw of 40mm. The lock is can be supplied with key operation from both sides or from one side only.

Unlocking / Locking is achieved by turning the key fully which extends and withdraws the deadbolt. The lock can be configured to operate under a number of key control arrangements which are as follows:

- **Single key – single throw deadlock** – Keyed to differ.
- **Master keyed – single throw deadlock** – Keyed to differ or to pass in groups under a common master key.
- **Twin keyed, double throw, double action deadlock** – Singles key operates first throw only and doubles key operates second throw only. Doubles key locks out unauthorised use of singles key when second throw is operated.
- **Twin keyed, double throw, double action deadlock** – Singles key operates first throw only and doubles key operates both first and second throw. Doubles key locks out unauthorised use of singles key when second throw is operated.



#### Specification:

##### Features

- Carbon steel deadbolt, with carbide anti-cutting rollers and 40mm maximum throw.
- 7 detainer manipulation resistant locking mechanism.
- Independent Single and Doubles actions available.
- Precision machined and hardened bolt thrower.
- Dedicated key profile operates 3G317 range of locks only.
- Escutcheon designed to give positive key alignment.
- Security fixings to prevent unauthorised removal.

##### Performance

- Lock tested to a minimum of 500,000 key operations.
- Saw attack 30 mins
- End load 9 kN
- Side Load 13.5 kN

##### Additional Features

- Suitable for external and internal use.
- Range of fixings including reinforcing plates and locking plates.
- Available in alternative furniture finishes on request.
- Cannot be keyed with any other locks in the CLCS range.
- Key designed to enable quick and easy re-alignment of displaced throwers.

### Morticed Deadlock

- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Rebate kit available for wooden door applications.
- Monitored versions available with micro-switch sensing of bolt position.
- Single sided version available on request.

#### Total Range

- The lock is generally not handed, however when keyed from one side only the lock is handed. For use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** CLCS recommend this lock is used in conjunction with a wooden door 54mm thick. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase length	114.2mm
Lockcase width	21.5mm
Weight (lock only)	3kg

#### Finish:

- Lock case – carbon steel electro-plated.
- Bolt – carbon steel electro-plated.
- Escutcheons – silica brass
- Keys – hardened steel
- Detainers and springs – brass / phosphor bronze.

### Application:

#### Purpose

To provide secure deadlocking of sliding doors or gates where an enhanced level of security is necessary. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes.

#### Overview

The 3M56 Mark 2 is a mortice hook bolt lock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. Twin locking laminated and hardened hooks are used to provide positive engagement in the frame with maximum strength.

The lock provides two independent throws of the anchor bolt where each throw is operated by a different key profile. The keys are designed so that neither key will perform the function of the other key.

The lock is operable from both sides with separate key holes for each key type. The escutcheon is designed to prevent the wrong key being inserted into the lock.

Secure locking is achieved by two independent keys:

#### Singles Key – Operates first throw only

- Locking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will extend the anchor bolt to expand the reinforced hooks to their fully thrown position.
- Unlocking is achieved by inserting the singles key into the dished keyhole and rotating fully, this action will withdraw the anchor bolt and retract the reinforced hooks to their rest position.
- **Note** the Singles key will not operate the second (Double) throw.

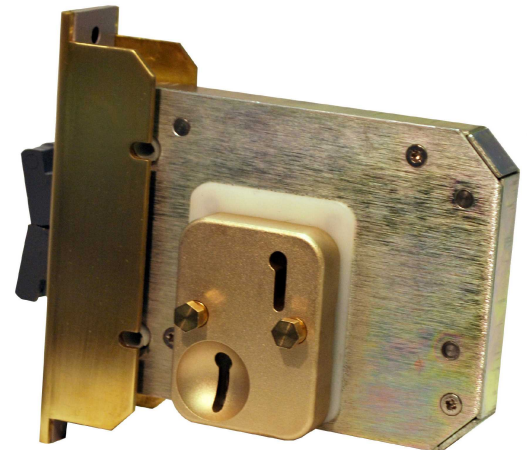
#### Doubles Key – Operates second throw only

- Locking, by inserting the Doubles key into the offset keyhole and rotating fully the anchor bolt can be thrown to its second position, preventing the Singles key operating the lock.
- **Note:** the use of the Doubles key does not engage the hooks any further.
- Unlocking is achieved by inserting the Doubles key into the offset keyhole and rotating fully, this action will withdraw the anchor bolt to its first position to enable operation under Singles key.
- **Note** the Doubles key will not operate servant throw.

### Specification:

#### Features

- Laminated and hardened hooks to resist cutting.
- Reinforcing bolts to resist forced attack.
- 16 lever highly durable mechanism.
- Independent Single and Double actions.
- Low friction key journals.
- Lever arrangement designed to provide extended product life.
- Dedicated key profiles.
- Escutcheon designed to give positive key alignment.



## 3M56 Mark 2

### Morticed Hookbolt Lock – Double Action

- Security fixings to prevent unauthorised removal.

#### Performance

- Lock tested to a minimum of 500,000 key operations.
- Saw attack 10 minutes
- End load 13.5 kN
- Pull test load 13.5 kN

#### Additional Features

- Suitable for external and internal use.
- Specially designed forend and fascia locking plates.
- Available in alternative furniture finishes on request.
- Can be keyed with 3G112 Mark 2 Deadbolt
- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Monitored versions available with micro-switch sensing of bolt position.
- Single sided version available on request.
- Singles key action only, version available on request.

#### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** CLCS recommend this lock is used in conjunction with a wooden door 54mm thick. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

#### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase length	141.2mm
Lockcase width	21mm
Weight (lock only)	3kg

#### Finish:

- Lock case - carbon steel electro-plated.
- Anchor bolt – stainless steel and carbon steel composite.
- Hook bolts – hardened steel.
- Escutcheons – silica brass
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze



#### Application:

##### Purpose

To provide secure deadlocking of sliding doors or gates where an enhanced level of security is necessary. This lock is specifically designed for very high use applications; typically securing internal doors and main access routes.

##### Overview

The 3M56 Mark 3 is a mortice hook bolt lock of robust construction based on the Chubb Locks Custodial Services small mortice footprint. Twin locking laminated and hardened hooks are used to provide positive engagement in the frame with maximum strength.

The lock provides deadlocking operated by a unique key profile to the Mark 3 range of locks and will not operate Mark 1 or Mark 2 lock variants.

The lock is operable from both sides and the escutcheon is designed to allow only the correct key profile being inserted into the lock.

The lock cannot be Master Keyed.

Secure locking is achieved by:

- Locking is achieved by inserting the key into the dished keyhole and rotating fully, this action will extend the anchor bolt to expand the reinforced hooks to their fully thrown position.
- Unlocking is achieved by inserting the key into the dished keyhole and rotating fully, this action will withdraw the anchor bolt and retract the reinforced hooks to their rest position.



#### Specification:

##### Features

- Laminated and hardened hooks to resist cutting.
- Reinforcing bolts to resist forced attack.
- 12 lever highly durable mechanism.
- Low friction key journals.
- Lever arrangement designed to provide extended product life.
- Dedicated key profiles.
- Escutcheon designed to give positive key alignment.
- Security fixings to prevent unauthorised removal.

##### Performance

- Lock tested to a minimum of 500,000 key operations.
- Saw attack 10minutes
- End load 13.5 kN
- Pull test load 13.5 kN

##### Additional Features

- Suitable for external and internal use.
- Specially designed forend and fascia locking plates.
- Available in alternative furniture finishes on request.
- Can be keyed with 3G112 Mark 3 Deadbolt
- Gate boxes for steel door applications recommended.
- Escutcheon trim plates supplied for wooden door variants as standard.
- Monitored versions available with micro-switch sensing of bolt position.

- Single sided version available on request.

### Total Range

- The lock is not handed, however for use on steel doors the short forend version should be ordered and for wooden doors the long forend version is recommended.
- **NOTE:** CLCS recommend this lock is used in conjunction with a wooden door 54mm thick. Please contact CLCS for guidance if alternative wooden door thicknesses are required.
- Fully dimensioned customer drawings are available on request to assist with door preparation.

### Dimensions & Weights

Lockcase depth (total)	171.5mm
Lockcase height	141.2mm
Lockcase width	21mm
Weight (lock only)	3kg

### Finish:

- Lock case - carbon steel electro-plated.
- Anchor bolt – stainless steel and carbon steel composite.
- Hook bolts – hardened steel.
- Escutcheons – silica brass
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze

#### Application:

##### Purpose

To provide secure locking of swinging passage / control doors using third party security management systems (SMS) or conventional key control. Designed to enable key and electric operation from both sides of the door. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes.

##### Overview

The 3R63 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. It has a substantial bolt designed to be withdrawn by means of a large 'T' handle or lever handle, on either side of the lock, whether opening or closing the door. The face of the bolt is angled so that it will slam shut in an emergency, but excessive slamming is not recommended and may lead to premature wear and failure. Locking is achieved by means of a completely separate (and interchangeable) inner locking unit, operable from either side, the vertically sliding bolt of which, engages in a recess in the main bolt: alternatively, a plunger controlled by the solenoid unit, operates in a similar manner at the rear end of the bolt.



#### Specification:

##### Principal of Operation

- **Electrical Mode** – Locking/unlocking by 24 Volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Mode** – Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Override** – In the event of power or communication failure an override key is used to disable the electric locking function.

##### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- 25mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers
- Dual solenoid electric locking latch.
- Independent 8-lever locking mechanism.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3A63/3A73/3R63 group of locks only.

##### Performance/Testing/Standards

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Solenoid locking unit tested to a minimum of 1,000,000

### Electromechanical Mortice Pass Lock

cycles.

- Saw attack on the main bolt 12 hours.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.
- End load 13.5 kN
- Side Load 25 kN

#### Additional Items

- Range of handle / knob options
- Gate Box
- Lock Interface Unit to facilitate operation by commercial access control systems
- Door cable
- Reinforcing plates for use on wooden doors

#### Dimensions & Weights

Case Height	207mm
Case Length	229mm
Case Thickness	29mm
Bolt Throw	25mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	10.5kg

Please request customer drawing for detailed information.

#### Finish:

- Lock case - carbon steel electro-plated.
- Main bolt - carbon steel electro-plated.
- Main bolt follower – high tensile brass.
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze.

### Application:

#### Purpose

To provide secure locking of swinging passage / control doors using third party security management systems (SMS) or conventional key control. Designed to enable key and electric operation from both sides of the door. This lock is specifically designed for very high use applications; typically securing perimeter doors and main access routes. Locks detailed in this specification also include an integral Door In Frame Sensor (DIF) to indicate the door status when used in conjunction with a suitable DIF magnet.

#### Overview

The 3R63 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. It has a substantial bolt designed to be withdrawn by means of a large 'T' handle or lever handle, on either side of the lock, whether opening or closing the door. The face of the bolt is angled so that it will slam shut in an emergency, but excessive slamming is not recommended and may lead to premature wear and failure. Locking is achieved by means of a completely separate (and interchangeable) inner locking unit, operable from either side, the vertically sliding bolt of which, engages in a recess in the main bolt: alternatively, a plunger controlled by the solenoid unit, operates in a similar manner at the rear end of the bolt.



### Specification:

#### Principal of Operation

- **Electrical Mode** – Locking/unlocking by 24 Volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Mode** – Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.
- **Manual Override** – In the event of power or communication failure an override key is used to disable the electric locking function.

#### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- 25mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers
- Dual solenoid electric locking latch.
- Independent 8-lever locking mechanism.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3A63/3A73/3R63 group of locks only.
- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm

### Electromechanical Mortice Pass Lock with DIF Sensor

working range)

#### Performance/Testing/Standards

- Mechanical locking mechanism tested to a minimum of 300,000 operations.
- Solenoid locking unit tested to a minimum of 1,000,000 cycles.
- Saw attack on the main bolt 12 hours.
- Solenoid arrangement designed to operate at +/-10% of 24V DC regulated supply.
- Nominal operating current 500mA.
- End load 13.5 kN
- Side Load 25 kN

#### Additional Items

- Handle and escutcheon kits (not supplied with the lock). Kits can be supplied to suit various functional requirements, door thicknesses and aesthetic requirements. Contact CLCS for further details.
- Frame mounted magnet assembly (to operate with the integral DIF sensor)
- Locking plate with integral magnet assembly.
- Gate Box
- Lock Interface Unit to facilitate operation by commercial access control systems
- Door cable
- Reinforcing plates for use on wooden doors

#### Dimensions & Weights

Case Height	207mm
Case Length	229mm
Case Thickness	29mm
Bolt Throw	25mm
Bolt Depth	45mm
Bolt Thickness	22mm
Weight (lock only)	10.5kg

Please request customer drawing for detailed information.

#### Finish:

- Lock case – carbon steel electro-plated.
- Main bolt – carbon steel electro-plated.
- Main bolt follower – high tensile brass.
- Keys – hardened steel
- Levers and springs – brass / phosphor bronze.

## Application:

### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging pass doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile. The key is supplied to enable an override (unlocking) for the electric locking if power fails.

Note (1): The Chubb 5 lever mechanism fitted to the 3L215 can not be used to mechanically lock the latch bolt – it can only be used to unlock the electric locking mechanism.

Note (2): The Chubb 5 lever mechanism fitted to the 3L215 can not be master keyed. Please contact CLCS if a master key mechanism is required as an alternative product is available.

Note (3): The latch bolt can only be withdrawn by operating the handle mechanism.

### Overview

The 3L215 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended. The latch bolt cannot be electrically locked back when fully withdrawn.

### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is engaged. Unlocking is achieved by 24 Volt DC supply from an external source to energise (lift) the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the unlocked state when the door is out of frame.

### Manual Override

In the event of power or communication failure an override key is used to override the solenoid locking bolt.

### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever override mechanism.
- Factory restricted key section.
- Status output – secure / insecure
- Pick resistant mechanism with protective curtain.

### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).
- This lock can be supplied in groups keyed alike.

## Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F

### Finish:

#### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO - Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate with Triklad high performance Trivalent Coating
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

#### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Handle & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 – Chrome Silver Painted -
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated with Triklad high performance Trivalent Coating -
- **Lock Installation Cable** - Standard 3 or 10 metre pre wired cable or site cable available upon request.



## Application:

### Purpose

Latch bolt lock to provide electric locking / unlocking of swinging pass doors. The lock is designed to accept an input signal from a third party access control system to energise and disengage the locking solenoid. The lock provides a 'Secure' status output when the door is in frame and the latch bolt is extended and locked. All other states produce an 'Insecure' status output.

The lock is fitted with a Chubb 5 lever anti-pick mechanism with a factory restricted key profile. The key is supplied to allow the lock to be mechanically secured and monitored.

### Overview

The 3L217 is a morticed lock of robust construction. The latch bolt is automatically extended providing a throw of 25mm and electrically deadlocked when the latch bolt is fully extended and door in frame. The latch bolt cannot be electrically locked back when fully withdrawn.

### Electrical Mode

Deadlocking is achieved when the door is closed and the latch bolt is fully extended and the solenoid locking bolt is energised +24 Volt DC to engage. Unlocking is achieved by de-energising the 24 Volt DC supply from an external source to lift the locking solenoid and withdrawing the bolt via the handle.

The solenoid is designed to be continuously energised to maintain the locked state when the door is in frame.

### Manual Override

The lock is not provided with a manual override. If power fails the locking solenoid will automatically disengage.

### Standard Features

- Integral Door in Frame (DIF) sensor (Typically 3 to 6mm working range)
- Unique single solenoid electric locking latch.
- Independent 5-lever locking mechanism.
- Locks can be keyed alike or keyed to differ
- Factory restricted key section.
- Status output – secure / insecure, door inframe and mechanical locking status.
- Pick resistant mechanism with protective curtain.

### Additional Features

- Handle and escutcheon design to suit customer requirements (not supplied with lock).
- Interchangeable mechanical inner locking unit to enable re-coding.
- Door cable available in 3M or 10M lengths (not supplied with lock).

This lock can be supplied in groups keyed alike.



## Standards:

- Mechanical override mechanism tested to a minimum of 60,000 operations  
BS5872:1980 Part A.14.1
- Handle mechanism tested to a minimum of 100,000 bolt operations  
BS EN 12209:2003 Part 5.3.2
- Slam operations tested to a minimum of 300,000 operations  
BS EN 12209:2003 Part 5.3.2
- Solenoid locking unit tested to a minimum of 500,000 cycles. pr  
EN 14846 Part 5.3.2.2
- Main bolt saw attack 12 hours  
BS EN 12320:2001 Part 5.10.1
- End load 8KN  
BS EN 12209:2003 Part 5.8.4
- Side Load 15 KN  
BS EN 12209:2003 Part 5.8.2
- Salt spray 96 hours  
ISO 9227:1990 / BS EN 1670:1998 Part 5.6
- Temperature testing -20° / + 80°C  
BS EN 12209:2003 Part 5.7.2
- Humidity testing 168 hours  
BS 3900 Part F2

## Finish:

### Materials and Finishes

- **Lock case** - Carbon steel to BSEN10027-S275JO Zinc plate & Passivate to CM5 M1047

3L217.002

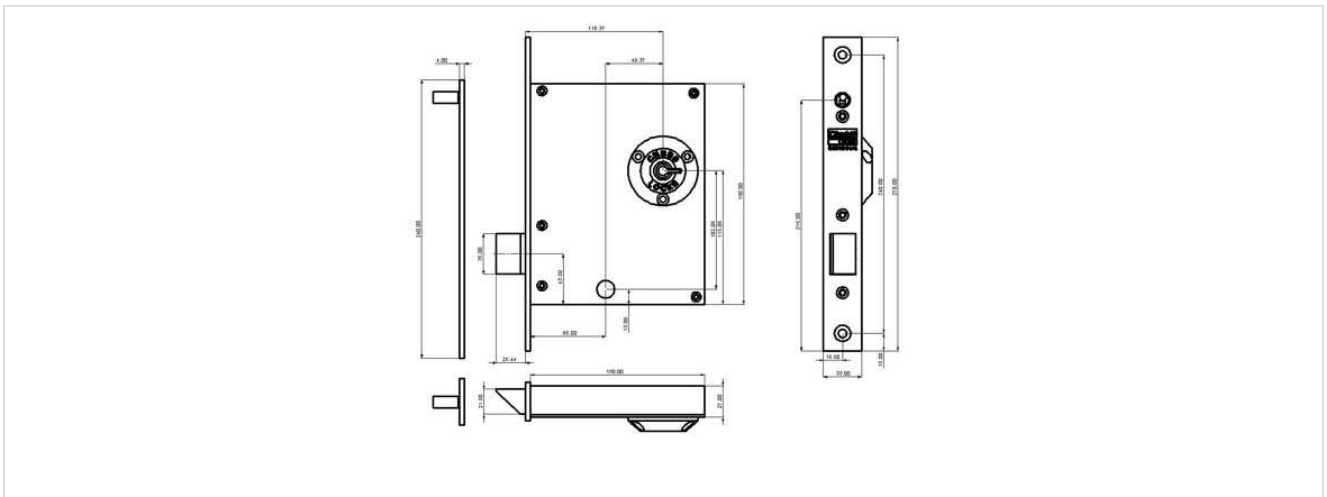
## Morticed Electro-Mechanical Pass Lock with DIF Sensor

- **Lock cap** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Lock forend** - Stainless steel to BSEN10088:1.4016 Natural
- **Latch bolt** - Carbon steel to BSEN10083-C22E Zinc plate & Passivate to CM5 M1047
- **Keys** - High tensile brass to BSEN12164:CW721R Natural

### Additional Items / Furniture

- **Key Escutcheon** - Stainless steel to BSEN10088:1.4404
- **Knob & Fixing Rose** - Aluminium to BSEN 754-755:6082 T6 - Polished and plated.
- **Locking Plate** - Carbon steel to BSEN10130:FeP01 Zinc plated & Passivated to CM5 M1047
- **N35 Magnet** - BN017A 6MM X 25MM
- **Lock Installation Cable** - 3 or 10 metre (or custom length to suit)

### Technical Design:



### Application:

#### Purpose

To provide secure locking of swinging passage / control doors using third party security management systems (SMS) or conventional key control. Designed to enable key and electric operation from both sides of the door. This lock is specifically designed for very high use applications; typically securing perimeter gates and main access routes.

#### Product Codes

3R66/001/03/S D/C PASS D'LOCK BODY ONLY  
3R66/002/01/S D/CONT P/LOCK ILU W/D NO FIX ITEMS  
3R66/002/02/S D/CONT P/LOCK ILU W/D + FIX ITEMS  
3R66/002/03/S D/CONT P/LOCK ILU S/D NO FIX ITEMS  
3R66/002/04/S D/CONT P/LOCK ILU S/D + FIX ITEMS

#### Overview

The 3R66 is a mortice lock of robust construction based on the Chubb Locks Custodial Services large mortice footprint. It has a substantial bolt designed to be withdrawn by means of a large 'T' handle or lever handle, on either side of the lock, whether opening or closing the door. Locking is achieved by means of a completely separate (and interchangeable) inner locking unit, operable from either side, the vertically sliding bolt of which, engages in a recess in the main bolt: additionally, a plunger controlled by the solenoid unit, operates in a similar manner via an electronic management system.

#### Principal of Operation

##### Electrical Mode

Locking/unlocking by 24 Volt DC controlled sequence from an external source (SMS). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.

##### Manual Mode

Locking/unlocking achieved using conventional (mechanical key). Bolt withdrawal by handle, which should also be used when engaging the bolt to secure the door.

##### Manual Override

In the event of power or communication failure an override key is used to disable the electric locking function.

##### Standard Features

- Solid Case Technology; Lock case machined from single piece carbon steel block.
- 25mm throw solid steel main bolt fitted with anti-saw Tungsten Carbide rollers
- Unique dual solenoid electric locking latch.
- Independent 8-lever locking mechanism.
- Lock provides status monitoring of critical functions and tamper.
- Integral baffle arrangements to resist manipulation and interference via the keyhole.
- Dedicated key profile operates 3A63/3R63/3R66 group of locks only.

##### Additional Items

- Gatebox
- Lock interface unit for operation with commercial access control systems
- Door cable

# Pass locks

3R66

## Morticed Electro-Mechanical Deadlock

**ASSA ABLOY**

- Reinforcing plates for use on timber doors

### Finish:

#### Materials and Finishes

**Lock case** - carbon steel electro-plated.

**Main bolt** - carbon steel electro-plated.

**Main bolt follower** – high tensile brass.

**Keys** – hardened steel

**Levers and springs** – brass / phosphor bronze.

#### Options

Various furniture options are available upon request



# Detainer mortice locks

3G110

## Mortice Deadlock

**ASSA ABLOY**

### Application:

#### Purpose

To provide a means of securing wooden doors on offices and rooms where a range of suiting options is required, and/or where a high degree of protection against all known forms of criminal attack is needed.

#### Product Codes

H3G110/108/BS LOCK BODY OLD SUITE  
H3G110/108/S MORT D/LOCK O/SUIT SAT NO KEYS  
H3G110/108A/BS LOCK BODY NEW SUITE  
H3G110/108A/S MORT D/LOCK N/SUIT SAT NO KEYS  
H3G110/P211 SUITE KEYS (NON BULLETED) 1.1/2" BBB  
H3G110/P211MK MASTER KEY NON BULLETED 1.1/2" BBB  
H3G110/P213 SUITE KEY (BULLETED) 1.1/2" BBB  
H3G110/P213MK MASTER KEY (BULLETED) 1.1/2" BBB  
H3G110/P411/1/S S.O SUITED DET'S NO KEYS

#### Overview

A 44mm backset mortice lock with a single dead-action bolt. The lock is constructed of formed up case, welded forend and flat cap screwed to pillars in the case. A separate stainless steel or brass faceplate is attached to the forend.

#### Standard Features

- Steel Body.
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Steel key.

#### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system



### Standards:

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

### Finish:

#### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.

# Detainer mortice locks

3R35

## Upright Mortice Locking Latch

**ASSA ABLOY**

### Application:

#### Purpose

To provide a secure latch, operable by handle from one side or both sides, and by key from the other side or both sides, for use on wooden doors in offices and administration rooms.

#### Product Codes

H3R35/207/S M.L.LATCH SS O/S EX.KEYS  
H3R35/207A/BS M.L.LATCH SS N/S EX.KEYS BODY ONLY  
H3R35/207A/S M.L.LATCH SS N/S EX.KEYS  
H3R35/208/BS M.L. LATCH BODY ONLY

#### Overview

The lock is primarily designed to have a handle on one side of the door only. In "latched only" state i.e. having just pushed door to, the bolt can be withdrawn by means of the handle (from inside) or by partial turn of the key (from either side). The snib (above the handle) can be used to hold the bolt in the withdrawn position. A full turn of the key in the locking direction effectively deadlocks the handle which can then only be released by a full turn in the opening direction. The 3R35 can also be used without handles on either side.

#### Standard Features

- Deadlocking slide (directly above latch bolt) deadlocks the latch bolt when the latter is engaged in the locking plate and prevents springing back by whatever means (Note: Gap between locking plate and forend must not exceed 3 mm).
- Deadlocking of handle (full turn of the key) to prevent operation of the handle from outside by breaking glass/panel etc. and reaching through.
- 5 lever locking mechanism with 9 lifts/lever affording at least 25,000 usable differs.
- False notching and common belly form on levers to deter reading and manipulation attacks.
- Key thrower with curtain to restrict access to the locking mechanism and further frustrate manipulative attack.
- Internal components designed to collapse under strong key attack leaving lock secure.
- Steel box on locking plate to protect head of bolt from jemmy attack.
- Edge gated levers suitable for master keying in suites compatible with other Chubb Security Range locks.
- Snib to hold bolt in withdrawn position and prevent door from accidentally latching.

### Finish:

#### Materials and Finishes

- **Lockcase, cap, forend and locking plate** : mild steel (painted)
- **Bolt head, deadlocking slide and follower** : steel sinterings (nickel plated)
- **Bolt tail, runner, dogging slide, detent, thrower flange and bolt stump arm** : mild steel (nickel plated)



### Standards:

#### Performance/Testing/Criteria

- 60,000 latch withdrawals using key.
- 240,000 latch withdrawals via follower.
- 300,000 slams.
- 60,000 full turns of key to deadlock and release.

# Detainer mortice locks

3R35

## Upright Mortice Locking Latch

**ASSA ABLOY**

- **Levers and thrower spindle** : brass (natural finish)
- **Lever Springs**: 18/8 stainless steel
- **Lever spring support** : Glass reinforced nylon
- **Snib follower** : Mazak 3
- **Thrower retaining spring** : zinc plated spring steel
- **Springs generally** : stainless steel



# Detainer mortice locks

3160

## Horizontal 2 Bolt Mortice Lock

**ASSA ABLOY**

### Application:

#### Purpose

To provide a means of securing wooden doors on offices and rooms where the use of a handle is required.

#### Product Codes

H3160/010/03/S 1 BOLT MORT OLD SUITE NO KEYS  
H3160/010/03A/S 1 BOLT MORT NEW SUITE NO KEYS  
H3160/010/04/S 2 BOLT MORTICE LOCK OLD SUITE  
H3160/010/04A/S 2 BOLT MORTICE LOCK NEW SUITE  
H3160/010/14ABS LOCK BODIES WITHOUT DETAINERS  
H3160/010/14BS LOCK BODIES WITHOUT DETAINERS

#### Overview

Mortice lock with formed-up case and welded Forend. Flat cap screwed to pillars in case. Horizontal construction with follower for handle at same level as keyhole.

Deadbolt operable by key only from either side (full turn to lock or unlock). Latch released by knob/handle only from either side, but will re-engage without the use of the knob/handle, under light door closing force.

#### Standard Features

- Steel Body.
- Latch bolt allowing use of a handle
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

#### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system



### Standards:

#### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

### Finish:

#### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt and latch bolt**- brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.

# Detainer mortice locks

3G135

## Mortice High Security Deadlock

**ASSA ABLOY**

### Application:

#### Purpose

To provide a means of securing wooden doors on offices and rooms where a range of suiting options is required, and/or where a high degree of protection against all known forms of criminal attack is needed.

#### Product Codes

H3G135/010/04/S HSMDL SAT B/SEC EX KEYS

H3G135/010/4/ST HSMDL SAT B/SEC SUITED

#### Overview

Featuring a unique key section, available only to secure establishments the 3G135 is a 44mm backset mortice lock with a single dead-action bolt. The lock is constructed of formed up case, welded forend and flat cap screwed to pillars in the case. A separate stainless steel or brass faceplate is attached to the forend.

#### Standard Features

- Steel Body.
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

#### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

### Finish:

#### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.



### Standards:

#### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

# Detainer mortice locks

3160X

Horizontal 1 Bolt Mortice Lock

**ASSA ABLOY**



# Detainer mortice locks

3K70

## Upright 2 Bolt Mortice Lock

**ASSA ABLOY**

### Application:

#### Purpose

To provide a means of securing wooden doors on offices and rooms where the use of a handle is required.

#### Overview

Mortice lock with formed-up case and welded Forend. Flat cap screwed to pillars in case. Upright construction with follower for handle in line with and above the keyhole. Deadbolt operable by key only from either side (full turn to lock or unlock). Latch released by knob/handle only from either side, but will re-engage without the use of the knob/handle, under light door closing force.

#### Product Codes

H3K70/211/S 2/B MORT LH SAT O/SUIT NO KEYS  
H3K70/211A/S2/B MORT LH SAT N/SUIT NO KEYS  
H3K70/212/S 2/B MORT RH SAT O/SUIT NO KEYS  
H3K70/212A/S2/B MORT RH SAT N/SUIT NO KEYS

#### Standard Features

- Steel Body.
- Latch bolt allowing use of a handle
- Brass deadbolt with 14mm bolt throw.
- Anti-padsaw steel rollers.
- 5 detainer mechanism with thousands of key combinations.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

#### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

### Finish:

#### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt and latch bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.



### Standards:

#### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Handle mechanism tested to a minimum of 300,000 bolt operations.

# Detainer mortice locks

3M50

## Hook Bolt Upright Mortice Lock

**ASSA ABLOY**

### Application:

#### Purpose

To provide a means of securing sliding or hinged wooden doors on offices and rooms where anti lift protection is required.

#### Product Codes

H3M50/05SA/S H/B MORT HB SCP/P N/ST NO KEYS

#### Overview

Mortice lock with formed-up case and welded Forend. Upright construction comprising hook and steady bolts, both of which withdraw completely into the case. Hook and steady bolt operated by key from either side (full turn to lock or unlock).

#### Standard Features

- Brass hookbolt with anti-padsaw steel rollers.
- Brass steady bolt to prevent the door being lifted.
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

#### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

### Finish:

#### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Main bolt and latch bolt** - brass.
- **Main bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.



### Standards:

#### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the main bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Tensile Load 5.0KN

# Detainer mortice locks

3M51

## Upright Clutch Bolt Mortice Lock

**ASSA ABLOY**

### Application:

#### Purpose

To provide a means of securing sliding wooden doors on offices and rooms where automatic closing action and anti lift protection is required.

#### Product Codes

Upon request

#### Overview

Mortice lock with formed-up case and welded Forend. Upright construction comprising hook and steady bolts, both of which withdraw completely into the case. Hook and steady bolt operated by key from either side (full turn to lock or unlock).

#### Standard Features

- Brass clutch bolt with anti-padsaw steel rollers.
- Brass stud bolt to prevent the door being lifted.
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

#### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system



### Standards:

#### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the clutch bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN
- Tensile Load 5.0KN

### Finish:

#### Materials and Finishes

- **Lock case** - carbon steel electro-plated.
- **Clutch bolt and stud bolt** - brass.
- **Clutch bolt thrower** - high tensile brass.
- **Levers and springs** - Brass/phosphor bronze.

# Detainer mortice locks

# ASSA ABLOY

3R135X

## Upright High Security Mortice Lock with Latch Bolt and Snib

### Application:

#### Purpose

To provide a means of securing swinging wooden doors on offices and rooms where a slam action and a unique key profile, for use only in high security establishments is required.

#### Product Codes

H3R135X/01/ST HOPD PRIVACY LOCK RH BRASS

H3R135X/02/ST HOPD PRIVACY LOCK LH BRASS

H3R135X/ST/BS HOPD PRIVACY LOCK BRASS BODY ONLY

#### Overview

Mortice lock with formed-up case and welded Forend. Upright construction comprising latch and snib bolts to provide auto deadlocking of the operating handle.

#### Standard Features

- Automatic deadlocking action
- Snib to hold back the bolt when the door needs to be left ajar
- Operating handle can be secured from either side
- Locking of handle can be inhibited for use as a fire escape door
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

#### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system

### Finish:

#### Materials and Finishes

- Lockcase, cap, forend and locking plate : mild steel (painted)
- Bolt head, deadlocking slide and follower : steel sinterings (nickel plated)
- Bolt tail, runner, dogging slide, detent, thrower flange and bolt stump arm : mild steel (nickel plated)
- Levers and thrower spindle : brass (natural finish)
- Lever Springs: 18/8 stainless steel
- Lever spring support : Glass reinforced nylon
- Snib follower : Mazak 3
- Thrower retaining spring : zinc plated spring steel
- Springs generally : stainless steel



### Standards:

#### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the latch bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN

### Application:

#### Purpose

To provide a means of securing swinging wooden doors on offices and rooms where a slam action is required.

#### Product Codes

H3R35X/207A/BS M.L.L SS NS K.STP EX.KEYS BODY ONLY

H3R35X/207A/S M.L.LATCH SS NS K.STOP EX.KEYS

#### Overview

Mortice lock with formed-up case and welded Forend. Upright construction comprising latch and snib bolts to provide auto deadlocking of the operating handle.

#### Standard Features

- Automatic deadlocking action
- Snib to hold back the bolt when the door needs to be left ajar
- Operating handle can be secured from either side
- Locking of handle can be inhibited for use as a fire escape door
- 5 detainer mechanism with thousands of key combinations.
- Bolt through fixing facility
- Steel Body.
- Built in protection against picking, drilling, force and torque attack.
- Unique Steel key.

#### Options

- Optional micro-switches for alarm systems integration.
- Can be suited as part of a master keyed system



### Standards:

#### Performance/Testing Criteria

- Mechanical locking mechanism tested to a minimum of 60,000 operations.
- Saw attack on the latch bolt 5 minutes.
- Side Load 13.5KN
- End Load 1.2KN

### Finish:

#### Materials and Finishes

- **Lockcase, cap, forend and locking plate** : mild steel (painted)
- **Bolt head, deadlocking slide and follower** : steel sinterings (nickel plated)
- **Bolt tail, runner, dogging slide, detent, thrower flange and bolt stump arm** : mild steel (nickel plated)
- **Levers and thrower spindle** : brass (natural finish)
- **Lever Springs**: 18/8 stainless steel
- **Lever spring support** : Glass reinforced nylon
- **Snib follower** : Mazak 3
- **Thrower retaining spring** : zinc plated spring steel
- **Springs generally** : stainless steel



**Five lever mortice lock**

**ASSA ABLOY**

# Five lever mortice lock

3G114

## Mortice Deadlock

**ASSA ABLOY**

### Application:

#### Purpose

To provide secure locking of hinged wooden doors in storerooms, outhouses etc in secure establishments, where a latch action is not required.

#### Product Codes

3G114/07/S 2.1/2 MORT D/LOCK SAT NO KEYS

3G114/07/TP 2.1/2 MDL SAT TO PASS WITH KEYS

3G114/SC/67 2.1/2 MORT D/LOCK SAT TWO KEYS

#### Overview

Operable by key from either side (full turn to lock or unlock).

#### Standard Features

- Steel Body
- Brass deadbolt with 14mm throw
- Anti-padsaw steel rollers
- 5 lever mechanism offering over a thousand key combinations
- Built in protection against picking, drilling, force and torque attack
- Brass key
- Optional micro-switches for alarm system integration
- Can be suited as part of a master keyed system

### Finish:

#### Materials and Finishes

- **Lockcase, cap, forend and locking plate** - mild steel (painted textured silver)
- **Bolt head, stump and tail** - integral brass stamping (natural finish).
- **Thrower** - die-cast mazak alloy (nickel-plated).
- **Levers** - hard rolled brass (natural finish).
- **Lever springs** - phosphor bronze (natural finish).
- **Thrower retaining spring** - spring steel (zinc-plated).
- **Faceplate and escutcheons** - brass or stainless steel (satin finish).



### Standards:

#### Performance/Testing/Criteria

60,000 full turns of key to deadlock and release.

# Lock ancillaries and lock furniture **ASSA ABLOY**

3A63.071.01.W

ATLAS 3A63 Token

## Application:



### **Purpose**

Replacement tokens for use with the ATLAS® system.

### **Overview**

For use with both MK1 and MK2 systems

### **Standard Features**

- Ultrasonically welded glass filled nylon enclosure
- Brass wear resistant ferrule

3A73.071.01.W

ATLAS 3A73 Fob

## Application:

### Purpose

Replacement tokens for use with the ATLAS® system.

### Overview

For use with RFID based systems

### Standard Features

- Stainless Steel wear resistant enclosure



4A79.070.01.W

ATLAS 4A79 Token

## Application:

### Purpose

Replacement tokens for use with the ATLAS® system.

### Overview

Can be used with both MK2 3A63 pass lock and 4A79 cell lock systems.

### Standard Features

- Machined nylon enclosure
- Stainless steel mid section



4L55.066

## Handle Replacement Kit

### Application:

#### Purpose

To enable conversion of either T handle or old style lever handle 4L cell locks to a rose mounted anti ligature lever handle

#### Overview

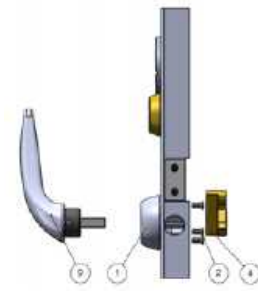
Available in Right Hand (4L55/066/01/S) and Left Hand (4L55/066/02/S) configurations the white powder coated handle and rose are manufactured to UK Home Office anti ligature requirements for cell locks. Tested to over 5 million operations the replacement lever handle kit allows users to upgrade existing products in order to meet the latest applicable standards.

Note: 3 fixings holes will need to be drilled and countersunk into the existing case. Details available upon request.

#### Standard Features

Each kit contains:

- Handle Rose
- 3 off M5x12 ST/ST fixing screws
- Bossless Brass follower
- Handle and spindle assembly



## BS100

## Beam Switch

### Application:

#### Purpose

To provide a means of identifying the position, within a frame, of a custodial doorset or gate.

#### Product Codes

BS100/003/01/W DOOR SWITCH ASSY (INTERRUPTER DISC) MK3 SINGLE POSITION

BS100/003/02/W DOOR SWITCH ASSY (INTERRUPTER DISC) MK3 LOCK BACK

BS100/050/01/W BEAM SWITCH NO BRACKET

#### Overview

The switch is designed for use with "Pivot" Hinge doors and gates commonly used in custodial environments in the UK and overseas. The primary function of the device is to provide accurate door in frame position sensing with low hysteresis. Accurate feedback to the access control system is essential to prevent un-planned locking out of frame and to ensure reliable auto-relock function when required.

#### Standard Features

- IFM Position Feedback Sensor
- Dual handed brackets to suit left and right handed doorset applications
- Adjustable during installation to ensure accurate readings

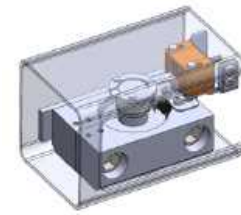
#### Options

- Single position switch is used to monitor doors that are either held in the locked position or left open and unlocked.
- Lock back switch is used to monitor doors that are either locked in frame or locked in a lock back frame

### Finish:

#### Materials and Finishes

- **Mounting bracket** – Zinc plated and passivated mild steel
- **Adjustable sensor plate** – Zinc plated and passivated mild steel
- **Sensor arm** – Zinc plated and passivated mild steel
- **Interrupter body** - aluminium



### Standards:

#### Performance/Testing Criteria

Sensor compliant with EN 60947-5-2 and EN 55011 class B



## ARK55

## Adjustable Removable Keep

### Application:

#### Purpose

To be used in conjunction with slam action 4L type locking products to secure cell doors in the locked position whilst providing a means of quick release in the event of an emergency.

#### Product Codes

ARK55/001/01/W – Adjustable Removable Keep

#### Overview

The ARK55 is an adjustable and removable lock keep that can be used to set the door leaf to rebate gap to a minimum in order to prevent the creation of ligature points around the door leaf.

The ARK55 also features a rebated adjustable plate designed to prevent the door from bouncing back when it has been slammed closed with reasonable force.

Note: Tests conducted with the UK Home Office have determined that the maximum reasonable force is 2 metres per second closing speed.

#### Standard Features

- Adjustable keep plate to minimise door/rebate gaps
- Removable in an emergency
- Anti bounce rebated keep plate
- Rubber stops to prevent main bolt damage if extended during closing operation
- Can be retrofitted to existing frames
- Dual handed

#### Additional Items

- Spacer plates when extra clearance is required to maintain alignment with the lock
- Spacer block for locks mounted on the door leaf outer skin



### Finish:

#### Materials and Finishes

- **Main body** – mild steel powder coated
- **Adjustable plate** – mild steel zinc plated and passivated

3R63.055

## Lock Interface Unit

### Application:



#### Purpose

The Lock Interface Unit (LIU) is a PCB which is intended to be DIN rail mounted as supplied, that allows you to control and monitor the Chubb 3R63 Pass and 4L78 Cell Locks.

One of the PCB's is required per lock.

#### Product Item Codes

3R63/055/01/S – Lock Interface Unit (Pre 2014 installations)

3R63/055/02/S – Lock Interface Unit With Relays (Post 2014 installations)

#### Overview

The PCB's can be fitted singularly local to the door in a junction box or header, or for larger systems in a centrally located cabinet where a number of locks may be installed using a shared power supply.

There are 3 terminal blocks which allow the wiring from the Power Supply/Door Position Switch and the Control System, to interface with the Lock.

Using a rotary switch mounted on the PCB, the lock can be configured to either

- Auto-relock (If bolt withdrawn)
- Auto-relock (after specified time\*, no bolt withdrawal necessary)
- Require an external input to lock.

\* Relock time is selectable in 5s intervals up to 1 minute.

Interlocks can also be achieved by connecting together the required PCB's

#### Monitoring

The PCB has terminations to monitor the following;

- **Mechanical Lock (ILU)**

The ILU is connected directly from the lock to the monitoring terminal block TB2, there is no digital input to the processor. This is a changeover contact so either state can be monitored/displayed, mechanically locked or unlocked.

- **Electric Locking Unit (ELU)**

The ELU is the double solenoid unit within the lock, for which the PCB provides the pulse sequence to unlock. This then frees the bolt to allow withdrawal via handle operation. The sequence is;

- Solenoid A energized, 100mS Delay.
- Solenoid B energized, 400mS Delay.
- Solenoid A de-energized, 100mS Delay.
- Solenoid B de-energized.

- **Bolt Position**

This is also an open drain output which gives 0V when the bolt is extended. As soon as the bolt is withdrawn and the locks micro-switch activates this output goes to 24V.

- **Tamper Loop**

This is similar to the ILU in that it is directly connected from the lock to the monitoring terminal block TB2. There is no input to the PCB's processor.

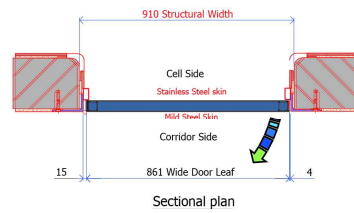
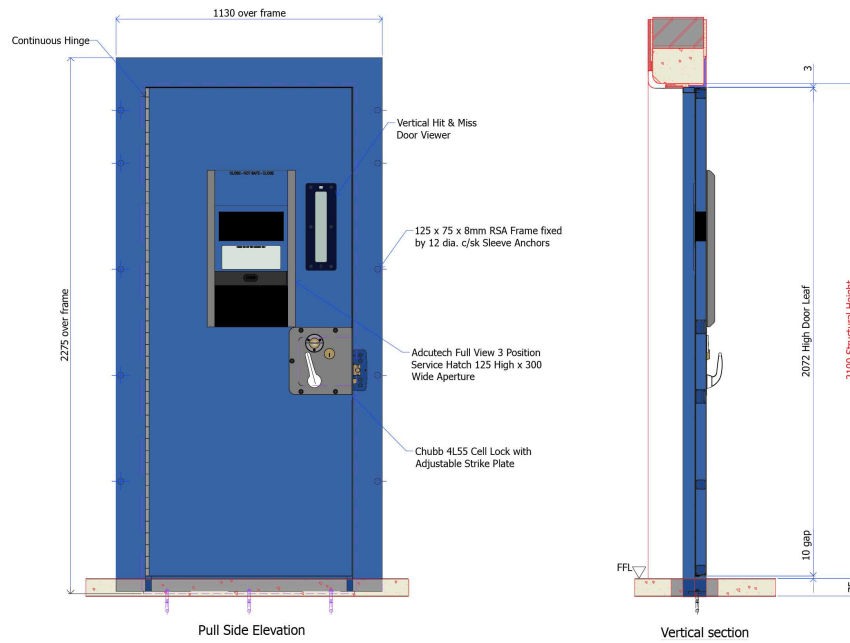
- **Door Position**

An external door switch (i.e magnetic) is required to signal to the PCB that the door is in frame. This is used for auto relock operation.



# Custodial doors, gates, grilles & windows

# ASSA ABLOY





# Cell doors

9D001

## Police Lambeth Cell Door

**ASSA ABLOY**

### Application:

A Chubb Locks Custodial Services Ltd Home Office specification cell door for police cells incorporating a full view 3 position service hatch, hit & miss vertical viewer and Type 1 Chubb 4L55 flush mounted mechanical slam action cell lock with adjustable strike plate. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Gap between Door Leaf and Rebate Maximum 2mm  
Complies with Home Office Static Load Test
- Gap between Sliding Hatch Plate and Hatch Aperture maximum 0.5mm
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles and to BS EN 1935 Grade 14 160kg
- Home Office Approved Hit & Miss Vertical Viewer Glass  
Home Office Type 1 specification Laminated Toughened Glass/Polycarbonate
- Home Office Approved Hatch Tested to a Minimum 400,000 cycles
- Home Office Approved Adjustable Strike Plate 'Bounce' Test pass at Closing Speed 2 metres per sec

#### Door Frame

- 125x75x8mm Rolled Steel Angle Frame to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 50x25x2mm Rolled Hollow Section Rebates Stainless Steel Grade 304 to BS EN 10088
- All Stainless Steel 180 Grit Dull Polish RA 1.0 – 1.7 EN 1J or 2J
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 CSK Sleeve Anchors 10no. minimum per frame
- Home Office Approved Adjustable Strike Plate ref ARK55

#### Door Leaf

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 3mm thick Cold Rolled Steel Internal Kick Plates to Electro-Zinc Coated to BS EN 10152:2009
- 0.8mm thick Additional Cell Side Door Skin Stainless Steel Grade 304 BA Pattern ref 12LG to BS EN 10088
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001



# Cell doors

9D001

## Police Lambeth Cell Door

**ASSA ABLOY**

- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- Home Office Approved Hit & Miss Viewer
- Type 1 Chubb 4L55 Flush Mounted Mechanical Slam Action Cell Lock with Ligature-Resisting Handle
- Home Office Approved Full View 3 Position Service Hatch

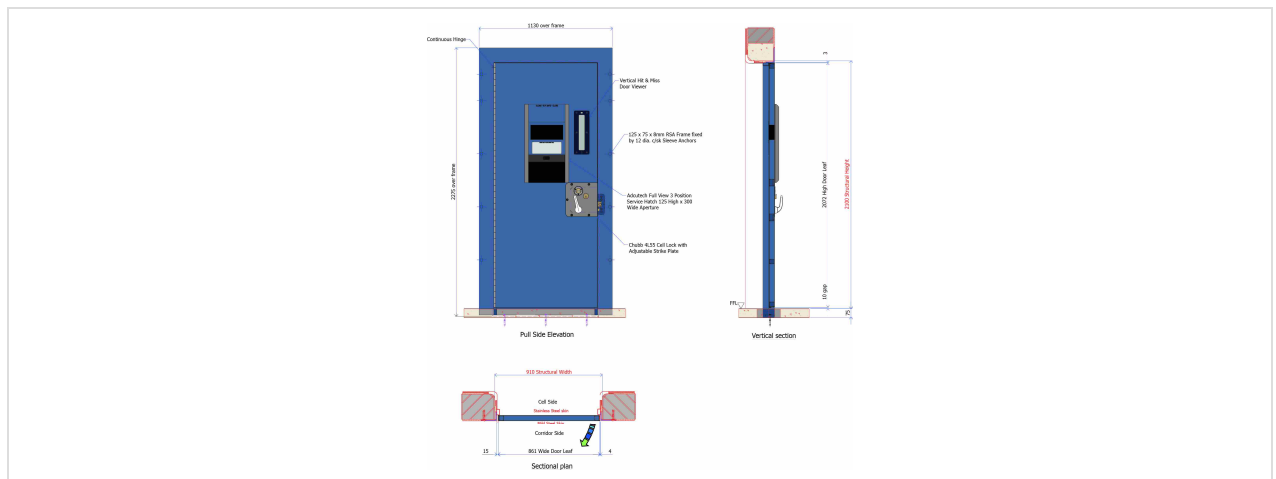
### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 1130mm Wide x 2210mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 861mm Wide x 2072mm High Excluding Hinge(s) x 47mm Thick
- Frame Clearance 7mm Jamb, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd Home Office specification cell door for vulnerable detainee police cells incorporating a 2 position service hatch, large vision panel with sliding cover and Type 1 Chubb 4L55 flush mounted mechanical slam action cell lock with adjustable strike plate. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Gap between Door Leaf and Rebate Maximum 2mm  
Complies with Home Office Static Load Test
- Gap between Sliding Hatch Plate and Hatch Aperture maximum 0.5mm
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg
- Home Office Approved Glass Home Office Type 1 specification Laminated Toughened Glass/Polycarbonate
- Home Office Approved Hatch Tested to a Minimum 400,000 cycles
- Home Office Approved Adjustable Strike Plate 'Bounce' Test pass at Closing Speed 2 metres per sec

##### Door Frame

- 125x75x8mm Rolled Steel Angle Frame to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 50x25x2mm Rolled Hollow Section Rebates Stainless Steel Grade 304 to BS EN 10088
- All Stainless Steel 180 Grit Dull Polish RA 1.0 – 1.7 EN 1J or 2J
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 CSK Sleeve Anchors 10no. minimum per frame
- Home Office Approved Adjustable Strike Plate ref ARK55

##### Door Leaf

- 3mm thick Cold Rolled Steel Door Skin Corridor Side Electro-Zinc Coated to BS EN 10152:2009
- 3mm thick Stainless Steel Cell Side Door Skin Grade 304 to BS EN 10088
- Stainless Steel Door Skin 180 Grit Dull Polish RA 1.0 – 1.7 EN 1J or 2J
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to





BS EN 13162:2001

- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- Home Office Approved Vision Panel with Sliding Privacy Cover & Hit & Miss Viewer
- Type 1 Chubb 4L55 Flush Mounted Mechanical Slam Action Cell Lock with Ligature-Resisting Handle
- Home Office Approved 2 Position Service Hatch
- Heavy Duty Rubber Door Stops to Protect Vision Panel Sliding Cover

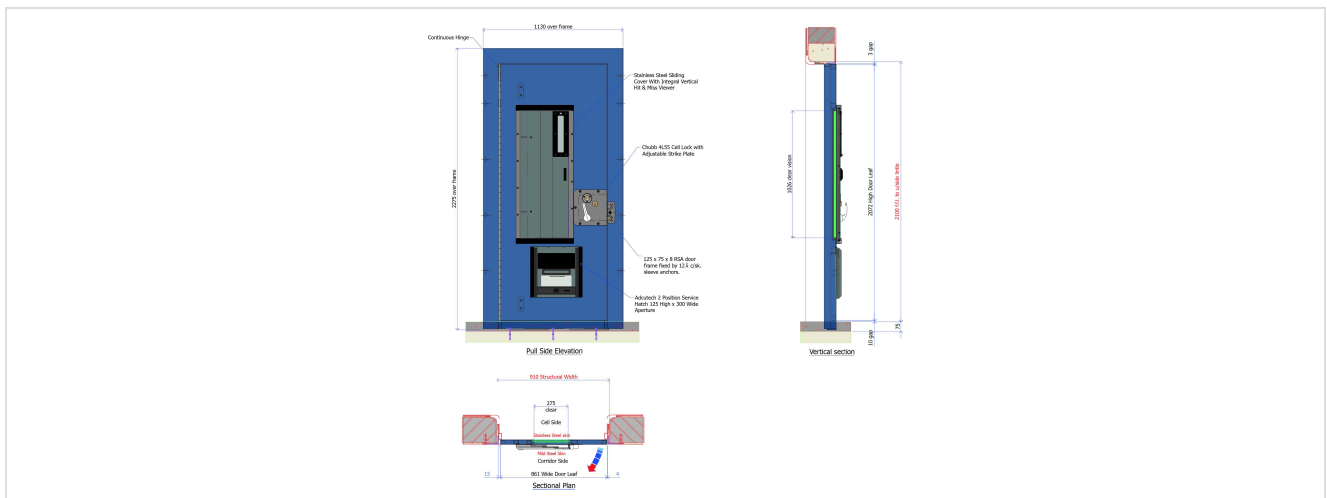
#### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 1130mm Wide x 2210mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 861mm Wide x 2072mm High Excluding Hinge(s) x 46mm Thick
- Frame Clearance 7mm Jambs, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

#### Finish:

- Mild Steel Powder Coat Epoxy Primer to BS EN 12206-1:2004
- Stainless Steel Dull Grit Satin Polished Unpainted

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd observation cell door with two large vision panels of Home Office Type 1 specification laminated toughened glass/polycarbonate for maximum visibility, Type 1 Chubb 4L55 slam action cell lock with adjustable strike plate and continuous hinge.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Glazing Gasket Holding Room Side 1.5mm Maximum and Double Sided Adhesive to Prevent Pick
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg
- Home Office Approved Glazing Type 1 specification Laminated Toughened Glass/Polycarbonate

##### Door Frame

- 125x75x8mm Rolled Steel Angle Frame to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 50x25x3mm Rolled Hollow Section Steel Rebates to BS EN 10025:2004
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 CSK Sleeve Anchors 10no. minimum per frame
- Home Office Approved Adjustable Strike Plate ref ARK55

##### Door Leaf

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- Home Office Approved Glazing Type 1 specification Laminated Toughened Glass/Polycarbonate
- Glazing Frames External fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2
- Type 1 Chubb 4L55 Flush Mounted Mechanical Slam Action Cell Lock with Ligature-Resisting Handle

##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 1130mm Wide x 2210mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 861mm Wide x 2072mm High Excluding Hinge(s) x 46mm Thick
- Frame Clearance 7mm Jambs, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge,

# Cell doors

9D003

## Observation Cell Door

3mm head, 10mm undercut

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd Home Office specification door for police holding rooms incorporating a 150mm square laminated glass vision panel with privacy cover, recessed pull handle and Type 2 Chubb 3G112 heavy duty mortice deadlock. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Gap between Door Leaf and Rebate Maximum 2mm  
Complies with Home Office Static Load Test
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg
- Home Office Approved Glass Home Type 1 specification Laminated Toughened Glass/Polycarbonate

##### Door Frame

- 125x75x8mm Rolled Steel Angle Frame to BS EN 10025:2004
- 25x25x3mm Rolled Hollow Section Steel Rebates to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 CSK Sleeve Anchors 10no. minimum per frame

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 150mm Square Laminated Glass & Polycarbonate Vision Panel with Hinged Steel Privacy Cover
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Corridor Side Only
- Recessed Pull Handle Corridor Side Cast Stainless Steel Grade 304

##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 1130mm Wide x 2210mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 861mm Wide x 2072mm High Excluding Hinge(s) x 46mm Thick
- Frame Clearance 7mm Jambs, 7mm Head



# Cell doors

9D004

## Police Holding Room Door

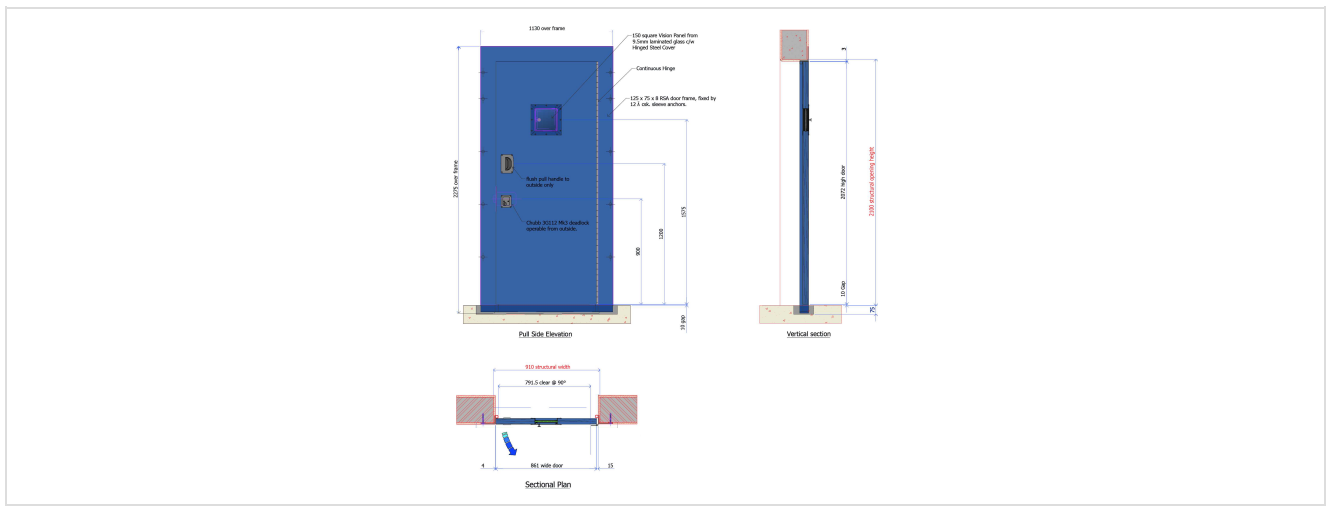
**ASSA ABLOY**

- Door Leaf Clearance 4mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd holding room screen based on typical Home Office specifications for secure doors & glazing for holding areas within police station charge areas. Incorporating large areas of Home Office Type 1 specification Laminated Toughened Glass/Polycarbonate, recessed pull handle and Type 2 Chubb 3G112 heavy duty mortice deadlock. Any size/configuration of panels can be provided.



#### Specification:

##### Specifications, Performance Data & Tolerances

- Glazing Gasket Holding Room Side 1.5mm Maximum and Double Sided Adhesive to Prevent Pick
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg
- Home Office Approved Glazing Type 1 specification Laminated Toughened Glass/Polycarbonate

##### Door Frame

- 100x60x4mm Hot Formed Rolled Hollow Section Steel Frame to BS EN 10025:2004
- 40x20mm Solid Section Steel Rebates to BS EN 10025:2004
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 12no. minimum per frame

##### Door Leaf/Side Panels

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- Home Office Approved Glazing Type 1 specification Laminated Toughened Glass/Polycarbonate
- Glazing Frames External fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2
- Type 2 Chubb 3G112 Heavy Duty Mortice Deadlock Operable Corridor Side only
- Recessed Pull Handle Corridor Side Stainless Steel Grade 304

##### Standard Dimensions

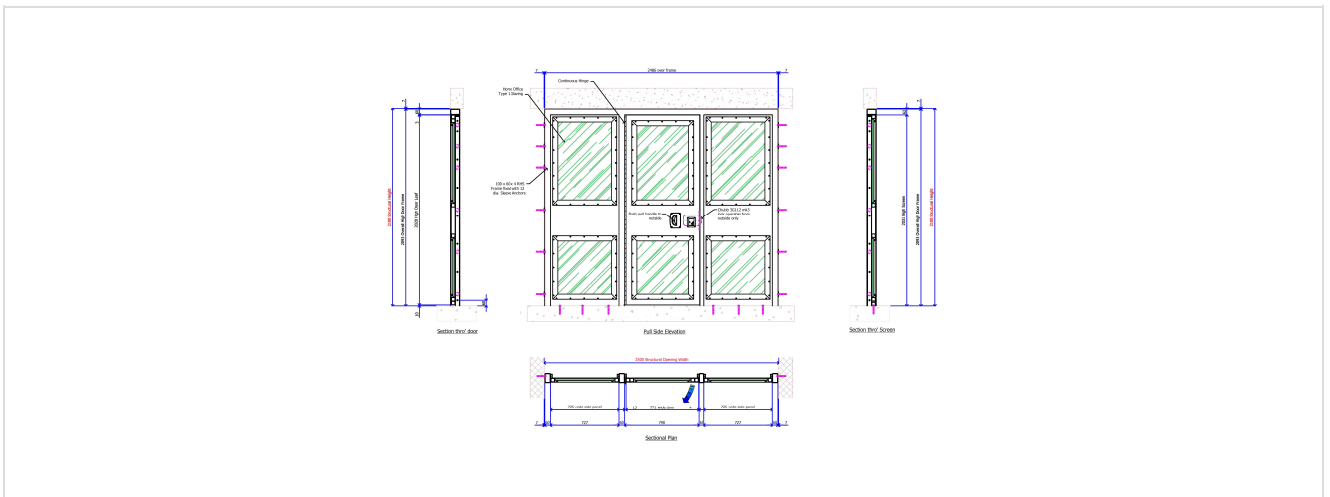
- Structural Opening 2500mm Wide x 2100mm High
- Overall Door Frame 2486mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)

- Door Leaf 771mm Wide x 2020mm High Excluding Hinge(s) x 46mm Thick
- Door Leaf Frame 910mm Wide x 2486mm High Overall from FFL
- Side Panels 788mm Wide x 2093mm High x 46mm Thick Including Frame
- Frame Clearance 7mm Jambs, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd HMPS specification cell door for court cells incorporating a vision panel with privacy cover and preparation for a Type 3 Chubb 3R47 mortice locking latch. Conforms to the Court Standards & Design Guide and standards & specifications required by the Prison Service.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Court Standards & Design Guide
- Conforms to the standards & specifications required by the Prison Service

##### Door Frame

- 100x100x4mm Hot Rolled Hollow Section Steel Frame to BS EN 10025:2004
- 12x12 Solid Steel Section Rebates BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 4mm Pressed Steel Threshold Section Electro-Zinc Coated to BS EN 10152:2009 Cast into Floor
- Frame Fixing Cleats 100x65x8mm Rolled Steel Angle to BS EN 10025:2004 6no.minimum per frame
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings M12 x 250 Chemical Resin Stud Anchors 12no.minimum per frame

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides Hot Dip Zinc Coated to BS EN 10346:2009
- 4mm thick Cold Rolled Steel Internal Kick Plates to Electro-Zinc Coated to BS EN 10152:2009
- 38x19x2mm Internal ERW Rectangular Steel Tube Skeleton Framework to BS EN 10305-3/5 Grade E220
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA40 to all Internal Voids to BS EN 13162:2001
- Tubular Pivot Hinge Full Length of Door Leaf as HMPS Specification
- Laminated Glass Vision Panel with Hinged Privacy Cover as HMPS Specification
- Preparation for Type 3 Chubb 3R47 Mortice Locking Latch
- Outer Steel Lock Box Enclosure Included as Part of Internal framework Skeleton

##### Standard Dimensions

- Structural Opening 870mm Wide x 2062mm High
- Overall Door Frame 845mm Wide x 2049.5mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 618mm Wide CL Hinge Tube x 1936.5mm High x 42mm Thick
- Frame Clearance 12.5mm Jambs, 12.5mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm head, 10mm undercut



# Cell doors

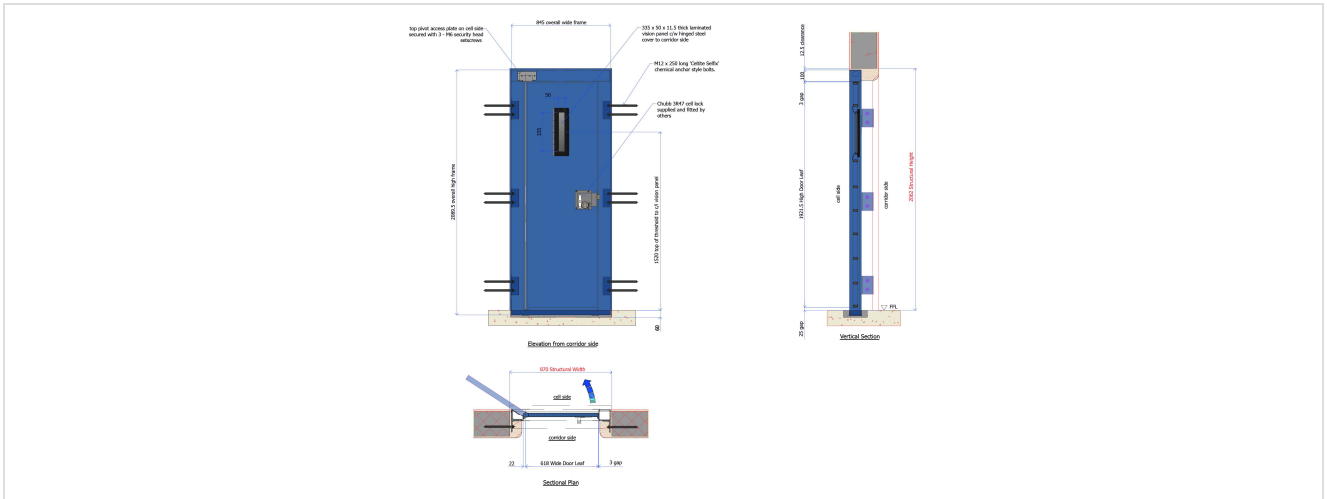
## 9D006

### Court Cell Door

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd HMPS specification cell door for prison cells incorporating an anti-barricade device, anti-ligature strips, vision panel with privacy cover, inundation unit and preparation for a Class 1 Chubb cell lock. Conforms to the standards & specifications required by the Prison Service & Ministry of Justice.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the standards & specifications required by the Prison Service & Ministry of Justice

##### Door Frame

- 100x60x4mm & 100x100x4mm Hot Rolled Hollow Section Steel Frame to BS EN 10025:2004
- Anti-Barricade Device Machined & Fabricated From Solid Steel Section as HMPS Specification
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 4mm Pressed Steel Threshold Section Electro-Zinc Coated to BS EN 10152:2009 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Fully Site Welded Head Chemical Resin Anchors 8no.minimum per frame

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides Hot Dip Zinc Coated to BS EN 10346:2009
- 38x19x2mm Internal ERW Rectangular Steel Tube Skeleton Framework to BS EN 10305-3/5 Grade E220
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA40 to all Internal Voids to BS EN 13162:2001
- Tubular Pivot Hinge Full Length of Door Leaf as HMPS Specification
- Laminated Glass Vision Panel with Hinged Privacy Cover as HMPS Specification
- Preparation for Class 1 Chubb 4L65P Mechanical Cell Lock With Privacy Facility
- Direct Mounting Lock Plate Included as Part of Internal framework Skeleton
- Lockable Inundation Unit as HMPS Specification
- Anti-Ligature Strips Face Fixed at Head & Leading Edge Over Lock as HMPS Specification

##### Standard Dimensions

- Structural Opening 790mm Wide x 2070mm High
- Overall Door Frame 770mm Wide x 2060mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 618.5mm Wide CL Hinge Tube x 1937mm High x 42mm Thick
- Frame Clearance 10mm Jambs, 10mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut



#### Application:

A Chubb Locks Custodial Services Ltd IPS specification cell door for prison cells incorporating removable rebates, horizontal vision panel with privacy cover, inundation unit and preparation for a Class 1 Chubb cell lock. Conforms to the standards & specifications required by the Irish Prison Service.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the standards & specifications required by the Irish Prison Service

##### Door Frame

- 120x60x5mm Jambs & 160x120x5mm Header Hot Rolled Hollow Section Steel Frame to BS EN 10025:2004
- Removable 20x20x3mm Pressed Steel Angle Rebate Strips Fixed With M6 CSK Security Screws
- Removable Solid Steel Lock Bolt Strike Plate Welded to Rebate Strips
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 120x15mm Flat Steel Threshold Section To BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- 4mm Thick Removable Access Plate In Header With Preparation For Tamper Microswitch
- Frame Fixings Fully Site Welded Head T16 Rebar Chemical Resin Anchors 7no.minimum per frame

##### Door Leaf

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 50x25x1.5mm Internal ERW Rectangular Steel Tube Skeleton Framework to BS EN 10305-3/5 Grade E220
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA50 to all Internal Voids to BS EN 13162:2001
- Tubular Pivot Hinge Full Length of Door Leaf as IPS Specification
- Horizontal Laminated Glass Vision Panel with Hinged Privacy Cover as IPS Specification
- Preparation for Surface Mounted Class 1 Chubb 4L56 Mechanical Slam Action Cell Lock
- Direct Mounting Lock Plate Welded To Corridor Side Face Of Door
- 20mm Dia Internal Conduit With Smooth Bushed Joints For Future Electric Locking
- Inundation Unit as IPS Specification
- Stainless Steel Grade 304 Card Holder Riveted To Corridor Side Face
- Preparation For Door Position Contact

##### Standard Dimensions

- Structural Opening 1010mm Wide x 2260mm High
- Overall Door Frame 990mm Wide x 2250mm High

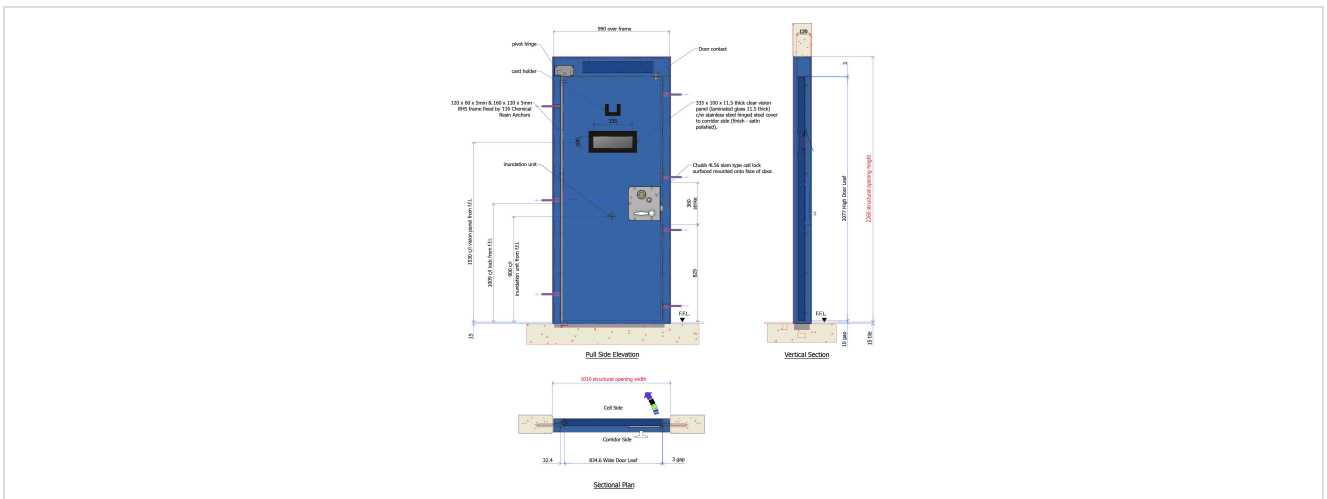
(Height From Finished Floor Level as Threshold Cast into Floor)

- Door Leaf 834.6mm Wide CL Hinge Tube x 2077mm High x 56mm Thick
- Frame Clearance 10mm Jamb, 10mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:





### Application:

A Chubb Locks Custodial Services Ltd prisoner entrance door for entering custody in police stations. Incorporating a 150mm square laminated glass vision panel with privacy cover, recessed pull handle and Type 2 Chubb 3G112 heavy duty mortice deadlock working in conjunction with an electric strike for keyless access control. Generally conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Generally Conforms to the Police Buildings Custody Design Guide
- Generally Conforms to the National Police Estates Group Best Practice Document
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

#### Door Frame

- 3mm thick Pressed Steel Profile Frame 125x69x50mm 19mm Rebate Electro-Zinc Coated to BS EN 10152:2009
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Heavy Duty Fail-Secure Electric Strike 12v DC Monitored
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame
- Security Type Frame Grommets to Conceal Fixings

#### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 150mm Square Laminated Glass Vision Panel with Hinged Steel Privacy Cover
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Recessed Pull Handle Both Sides Cast Stainless Steel Grade 304
- Overhead Hydraulic Door Closer with Adjustable Closing Force EN 3-6 and Back Check

#### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 782mm Wide x 2030mm High Excluding Hinge(s) x 48mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 15mm hinge,



# Circulation & perimeter doors

9D014A

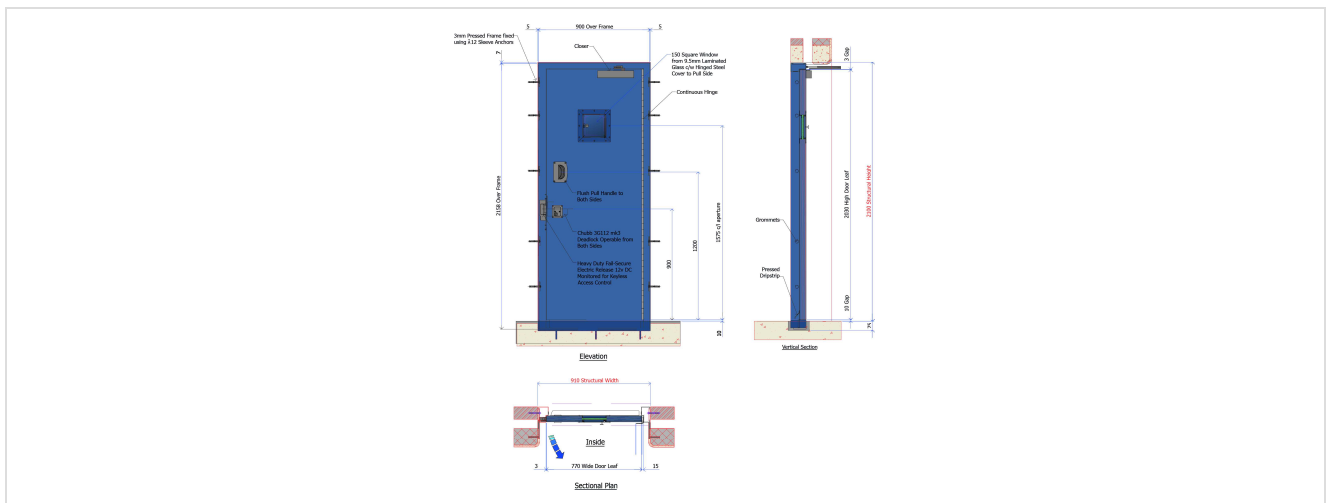
## Police Prisoners Entrance Door

3mm head, 10mm undercut

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:





### Application:

A Chubb Locks Custodial Services Ltd fire escape door for police station custody secure areas incorporating recessed pull handles and Type 2 Chubb 3G112 heavy duty mortice deadlock. Generally conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Generally Conforms to the Police Buildings Custody Design Guide
- Generally Conforms to the National Police Estates Group Best Practice Document
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

#### Door Frame

- 3mm thick Pressed Steel Profile Frame 125x69x50mm 19mm Rebate Electro-Zinc Coated to BS EN 10152:2009
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame
- Security Type Frame Grommets to Conceal Fixings

#### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Recessed Pull Handle Both Sides Cast Stainless Steel Grade 304

#### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 782mm Wide x 2030mm High Excluding Hinge(s) x 48mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

### Finish:

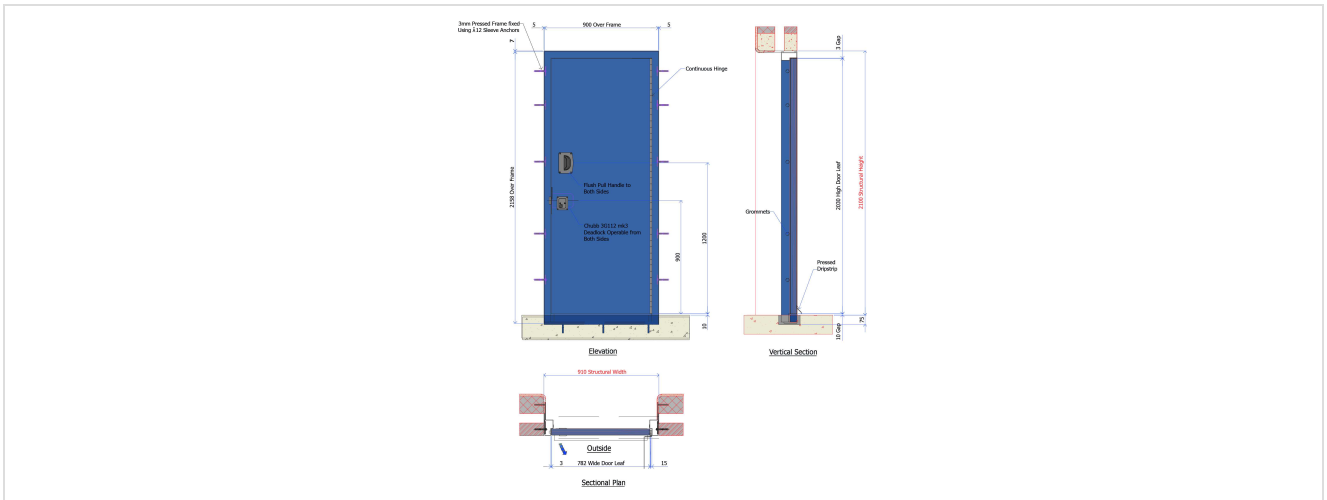
- Powder Coat Epoxy Primer to BS EN 12206-1:2004

# Circulation & perimeter doors

9D014B

## Police Custody Fire Escape Door

### Technical Design:



9D015A

## Police Pass/Exercise Yard Door

### Application:

A Chubb Locks Custodial Services Ltd door typically used for police station pass or exercise yard doors within custody. Incorporating a 150mm square laminated glass vision panel, recessed pull handle and Type 2 Chubb 3G112 heavy duty mortice deadlock. Generally conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Generally Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

#### Door Frame

- 3mm thick Pressed Steel Profile Frame 125x69x50mm 19mm Rebate Electro-Zinc Coated to BS EN 10152:2009
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame
- Security Type Frame Grommets to Conceal Fixings

#### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 150mm Square Laminated Glass Vision Panel
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable One or Both Sides
- Recessed Pull Handle Both Sides Cast Stainless Steel Grade 304

#### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 782mm Wide x 2030mm High Excluding Hinge(s) x 48mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut



### Finish:

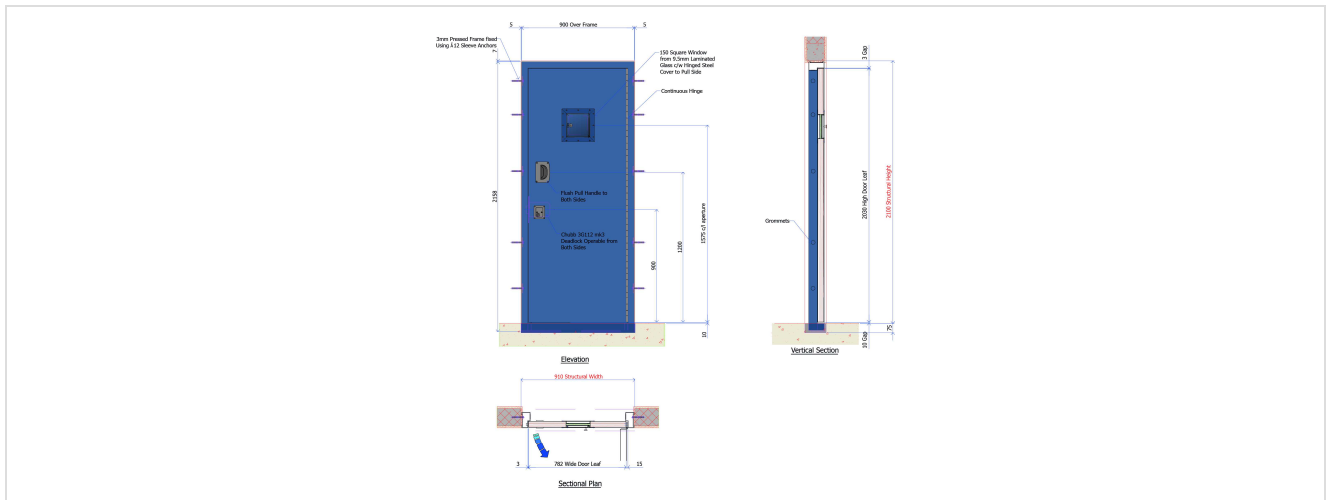
# Circulation & perimeter doors

9D015A

## Police Pass/Exercise Yard Door

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



### Application:

A Chubb Locks Custodial Services Ltd secure door for police station surgeon/medical rooms in custody incorporating a 150mm square laminated glass vision panel with privacy cover, recessed pull handle and Type 2 Chubb 3G112 heavy duty mortice deadlock. Generally conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Generally Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

#### Door Frame

- 3mm thick Pressed Steel Profile Frame 125x69x50mm 19mm Rebate Electro-Zinc Coated to BS EN 10152:2009
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame
- Security Type Frame Grommets to Conceal Fixings

#### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- 44mm thick Solid Timber Door Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles
- Door Core Density 460 – 500kg/m<sup>3</sup>
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 150mm Square Laminated Glass Vision Panel with Hinged Steel Privacy Cover
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Recessed Pull Handle Both Sides Cast Stainless Steel Grade 304

#### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 782mm Wide x 2030mm High Excluding Hinge(s) x 48mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

# Circulation & perimeter doors

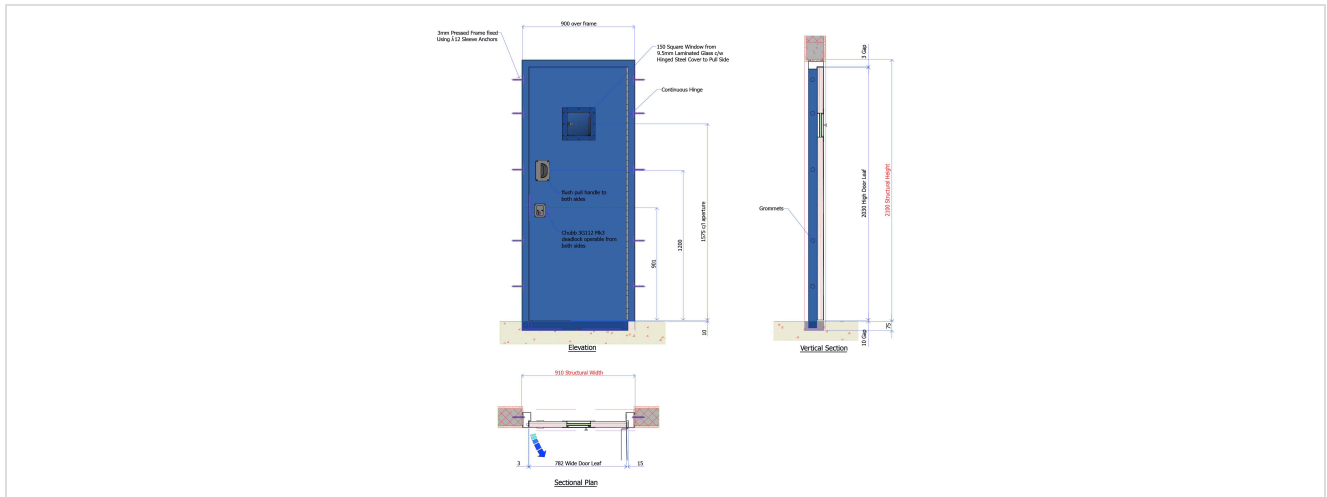
9D015B

## Police Surgeon/Medical Room Door

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



### Application:

A Chubb Locks Custodial Services steel fire door with 60 mins fire resistance integrity for use in police custody. The door incorporates a laminated glass vision panel, a Type 2 Chubb 3G112 heavy duty mortice deadlock & continuous hinge.

### Specification:

#### Specifications, Performance Data & Tolerances

- Fire Resistance 60 mins Integrity to BS EN 1634-1:2000
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

#### Door Frame

- 125x75x8mm Rolled Steel Angle Frame to BS EN 10025:2004
- 25x25x3mm Rolled Hollow Section Steel Rebates to BS EN 10025:2004
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 10no. minimum per frame

#### Door Leaf

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- Ligature Resisting Continuous Hinge Capable of Supporting Weight of Door Leaf
- Fire Rated Security Laminated Glazing
- Intumescent Glazing Gasket
- Glazing Frame Fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2
- Type 2 Chubb 3G112 Heavy Duty Mortice Deadlock Operable Both Sides
- Recessed Pull Handle Both Sides Stainless Steel Grade 304

#### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 1130mm Wide x 2210mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 861mm Wide x 2072mm High Excluding Hinge(s) x 46mm Thick
- Frame Clearance 7mm Jambs, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

# Circulation & perimeter doors

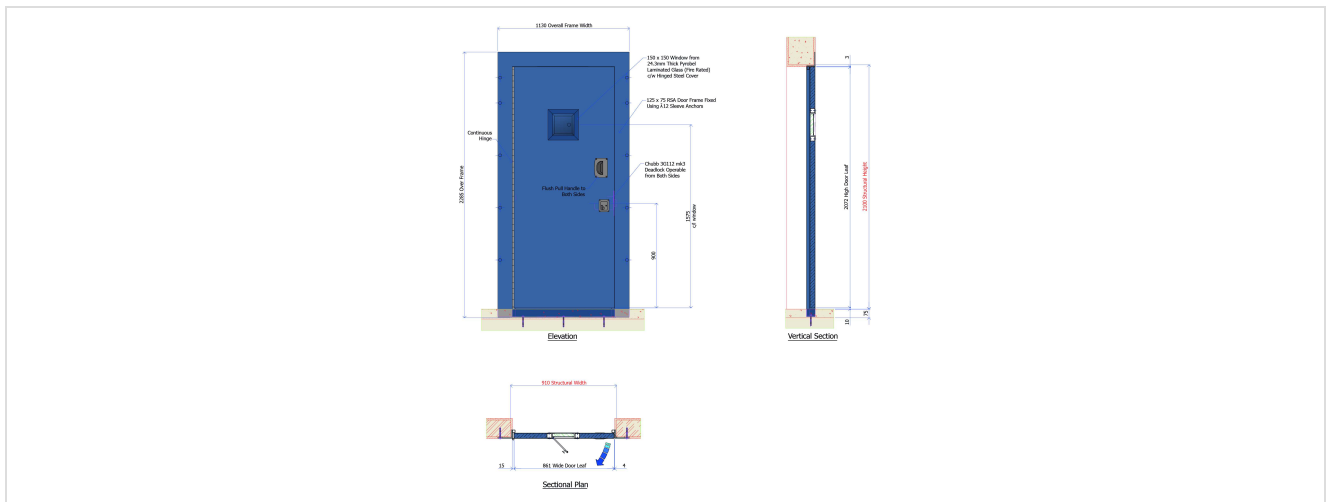
9D017B

## Steel Fire Door 60 min Integrity

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:





9D017C

## Fully Glazed Corridor Fire Door 60 min Integrity

### Application:

A Chubb Locks Custodial Services Ltd steel fully glazed corridor fire door & glazed side panel with 60 mins fire resistance integrity for use in police custody in place of traditional barred grilles. The door incorporates large toughened laminated glass vision panels and a Type 2 Chubb 3G112 heavy duty mortice deadlock.

### Specification:

#### Specifications, Performance Data & Tolerances

- Fire Resistance 60 mins Integrity to BS EN 1634-1:2000
- Continuous Hinge Cyclic Tested to a Minimum 1,000,000 cycles min and to BS EN 1935 Grade 14 160kg

#### Door Frame

- 100x60x4mm Hot Formed Rolled Hollow Section Steel Frame to BS EN 10025:2004
- 40x20mm Solid Section Steel Rebates to BS EN 10025:2004
- 75x10mm Flat Steel Threshold Section to BS EN 10025:2004 Cast into Floor
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 12no. minimum per frame

#### Door Leaf

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- Ligature Resisting Continuous Hinge either Barrel or Gear Type Capable of Supporting Weight of Door Leaf
- 'CERTIFIRE' Approved Security Laminated Toughened Glazing
- Intumescent Glazing Gasket
- Glazing Frames Fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2
- Type 2 Chubb 3G112 Heavy Duty Mortice Deadlock Operable Both Sides
- Recessed Pull Handle Both Sides Stainless Steel Grade 304

#### Fixed Side Panel

- 3mm thick Cold Rolled Steel Door Skins Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001

9D017C

## Fully Glazed Corridor Fire Door 60 min Integrity

- Mineral Wool Insulation RWA45 to all Internal Voids to BS EN 13162:2001
- 'CERTIFIRE' Approved Security Laminated Toughened Glazing
- Intumescent Glazing Gasket
- Glazing Frames Fixed with CSK Torx/Hex Resist Screws Stainless Steel Grade A2

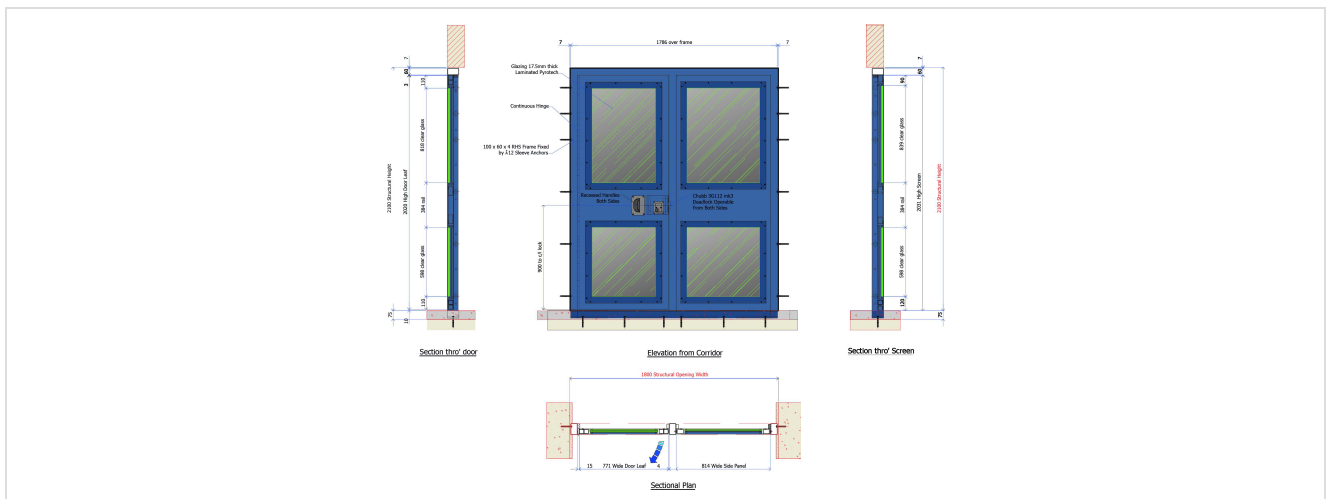
### Standard Dimensions

- Structural Opening 1800mm Wide x 2100mm High
- Overall Door Frame 1786mm Wide x 2093mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 771mm Wide x 2020mm High Excluding Hinge(s) x 46mm Thick
- Door Leaf Frame 910mm Wide x 2486mm High Overall from FFL
- Side Panel 876mm Wide x 2093mm High x 46mm Thick Including Frame
- Frame Clearance 7mm Jambs, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 15mm hinge, 3mm head, 10mm undercut

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



9D019

## Armaglaze Single Action Door

### Application:

A Chubb Locks Custodial Services Ltd solid timber single action door & frame faced both sides in coloured textured Armaglaze typically used in corridor locations within Metropolitan Police custody. The door incorporates a Type 2 Chubb 3G112 lock, heavy duty roller catch, polycarbonate vision panel and self-closing floor spring. Conforms to the Metropolitan Police standard specifications.

### Specification:

#### Specifications, Performance Data & Tolerances

- Conforms to The Metropolitan Police Standard Specification

#### Door Frame

- Monolithic Ash Hardwood Frame 3 Sides 150x70x50mm 20mm Rebate
- European Ash Hardwood Kiln Dried Moisture Content 10 -14% Density 710kg/m<sup>3</sup>
- Mortice & Tenon Joints
- Hardwood Finish Sanded 240 Grit
- Steel Threshold Plate
- Counterbored & Pelleted Frame Fixings
- Frame Fixings 12mm dia x 100mm Sleeve Anchors 8no. minimum per frame
- Single Action Floor Spring

#### Door Leaf

- 49/50mm thick Solid Timber Core Malaysian Hardwood Lamels 20-30mm x 200mm finger Jointed Average Density 750kg/m<sup>3</sup>
- 5mm thick Coloured Armaglaze Textured Facing Heat Pressure Bonded to Both Sides 45C @2500lbs/in<sup>2</sup> for 6mins
- 25mm Hardwood Ash Lipping Bonded & Screwed All 4 Edges Minimum Density 710kg/m<sup>3</sup> 10 -14%MC
- Hardwood Finish Sanded 240 Grit
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Heavy Duty Roller Catch
- Stainless Steel Pull Handle & Push Plate
- 6mm thick Polycarbonate Vision Panel 215mm x 250mm
- Single Action Floor Spring Pivots

#### Standard Dimensions

- Structural Opening 1200mm Wide x 2110mm High
- Overall Door Frame 1190mm Wide x 2104mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 1082mm Wide x 2030mm High Excluding Hinge(s) x 60mm Thick
- Frame Clearance 5mm Jambs, 6mm Head
- Door Leaf Clearance 4mm Leading Edge, 4mm hinge, 4mm head, 10mm undercut

### Finish:

- Colour Impregnated Armaglaze Textured Facings

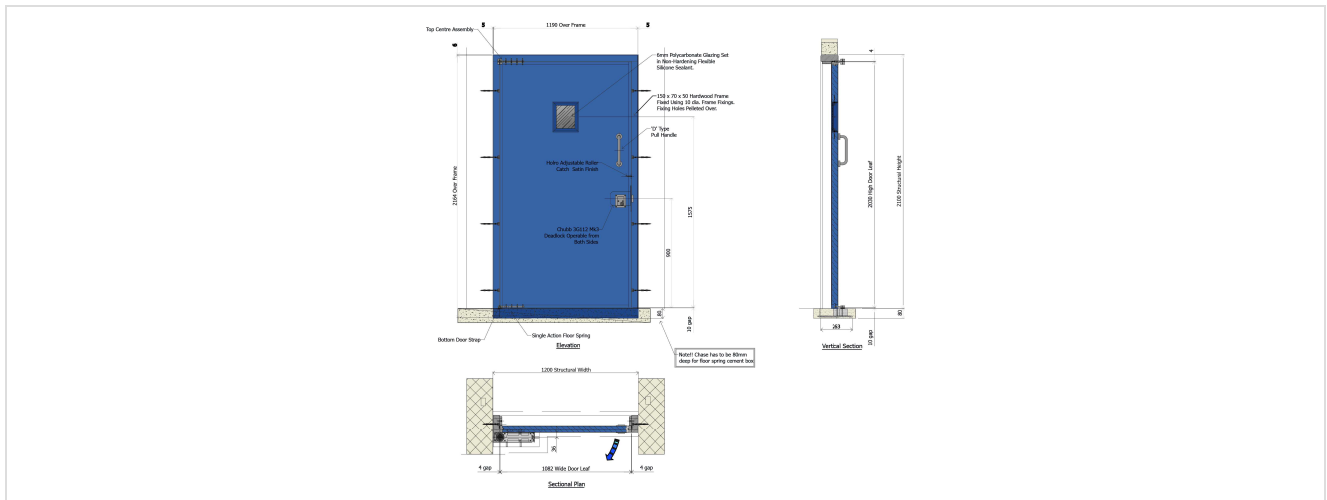
# Circulation & perimeter doors

9D019

## Armaglaze Single Action Door

- Hardwood Lacquer Two Pack Semi-Matt 20% Sheen

### Technical Design:



9D020

## Armaglaze Double Action Door

### Application:

A Chubb Locks Custodial Services Ltd solid timber double action door & frame faced both sides in coloured textured Armaglaze typically used in corridor locations within Metropolitan Police custody. The door incorporates a Type 2 Chubb 3G112 lock, heavy duty roller catch, polycarbonate vision panel and self-closing floor spring. Conforms to the Metropolitan Police standard specifications.

### Specification:

#### Specifications, Performance Data & Tolerances

- Conforms to The Metropolitan Police Standard Specification
- Door Not Handed

#### Door Frame

- Monolithic Ash Hardwood Frame 3 Sides 140x50mm
- European Ash Hardwood Kiln Dried Moisture Content 10 -14% Density 710kg/m<sup>3</sup>
- Mortice & Tenon Joints
- Hardwood Finish Sanded 240 Grit
- Steel Threshold Plate
- Counterbored & Pelleted Frame Fixings
- Frame Fixings 12mm dia x 100mm Sleeve Anchors 8no. minimum per frame
- Double Action Floor Spring

#### Door Leaf

- 49/50mm thick Solid Timber Core Malaysian Hardwood Lamels 20-30mm x 200mm finger Jointed Average Density 750kg/m<sup>3</sup>
- 5mm thick Coloured Armaglaze Textured Facing Heat Pressure Bonded to Both Sides 45C @2500lbs/in<sup>2</sup> for 6mins
- 25mm Hardwood Ash Lipping Bonded & Screwed All 4 Edges Minimum Density 710kg/m<sup>3</sup> 10 -14%MC
- Hardwood Finish Sanded 240 Grit
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Heavy Duty Roller Catch
- Stainless Steel Push Plates Both Sides
- 6mm thick Polycarbonate Vision Panel 215mm x 250mm
- Double Action Floor Spring Pivots

#### Standard Dimensions

- Structural Opening 1200mm Wide x 2110mm High
- Overall Door Frame 1190mm Wide x 2104mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 1092mm Wide x 2040mm High Excluding Hinge(s) x 60mm Thick
- Frame Clearance 5mm Jambs, 6mm Head
- Door Leaf Clearance 4mm Leading Edge, +6mm hinge, 4mm head, 10mm undercut

### Finish:

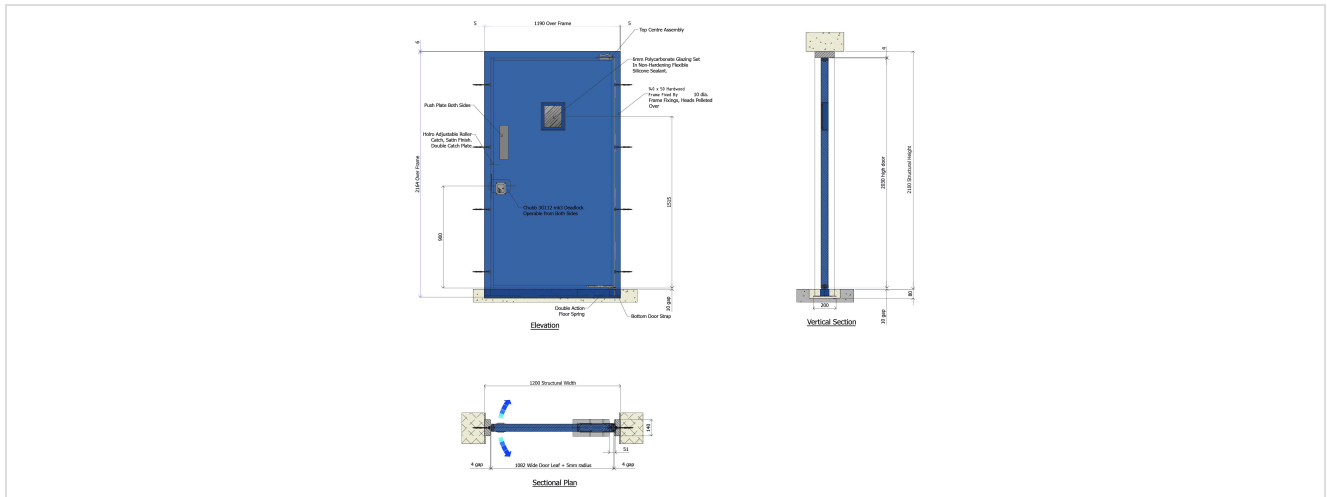
# Circulation & perimeter doors

9D020

## Armaglaze Double Action Door

- Colour Impregnated Armaglaze Textured Facings
- Hardwood Lacquer Two Pack Semi-Matt 20% Sheen

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd HMPS specification control & Restraint (C&R) door for prison wings incorporating two shoot bolts, vision panel with privacy cover, pull handle and preparation for a Class 2 Chubb 3G112 heavy duty mortice deadlock. Conforms to the standards & specifications required by the Prison Service & Ministry of Justice.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the standards & specifications required by the Prison Service & Ministry of Justice

##### Door Frame

- 100x60x4mm & 100x100x4mm Hot Rolled Hollow Section Steel Frame to BS EN 10025:2004
- 12x12mm Solid Steel Rebates To BS EN 10025:2004 Stitch Welded All Round
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 4mm Pressed Steel Threshold Section Electro-Zinc Coated to BS EN 10152:2009 Cast into Floor
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Fully Site Welded Head Chemical Resin Anchors 8no.minimum per frame

##### Door Leaf

- 1.6mm thick Cold Rolled Steel Door Skins Both Sides Hot Dip Zinc Coated to BS EN 10346:2009
- 38x19x2mm Internal ERW Rectangular Steel Tube Skeleton Framework to BS EN 10305-3/5 Grade E220
- Internal Skeleton Framework Shot Blast to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Mineral Wool Insulation RWA40 to all Internal Voids to BS EN 13162:2001
- Tubular Pivot Hinge Full Length of Door Leaf as HMPS Specification
- Laminated Glass Vision Panel with Hinged Privacy Cover as HMPS Specification
- Preparation for Class 2 Chubb 3G112 Heavy Duty Mortice Deadlock Operable Both Sides
- Outer Steel Lock Box Welded Into Door Construction
- Two Heavy Duty Shoot Bolts Fitted To Secure Stairs Side
- Welded Steel Pull Handle Fitted To Secure Stairs Side

##### Standard Dimensions

- Structural Opening 1040mm Wide x 2060mm High
- Overall Door Frame 1020mm Wide x 2050mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 868.5mm Wide CL Hinge Tube x 1927mm High x 42mm Thick
- Frame Clearance 10mm Jambs, 10mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut

# Circulation & perimeter doors

9D023

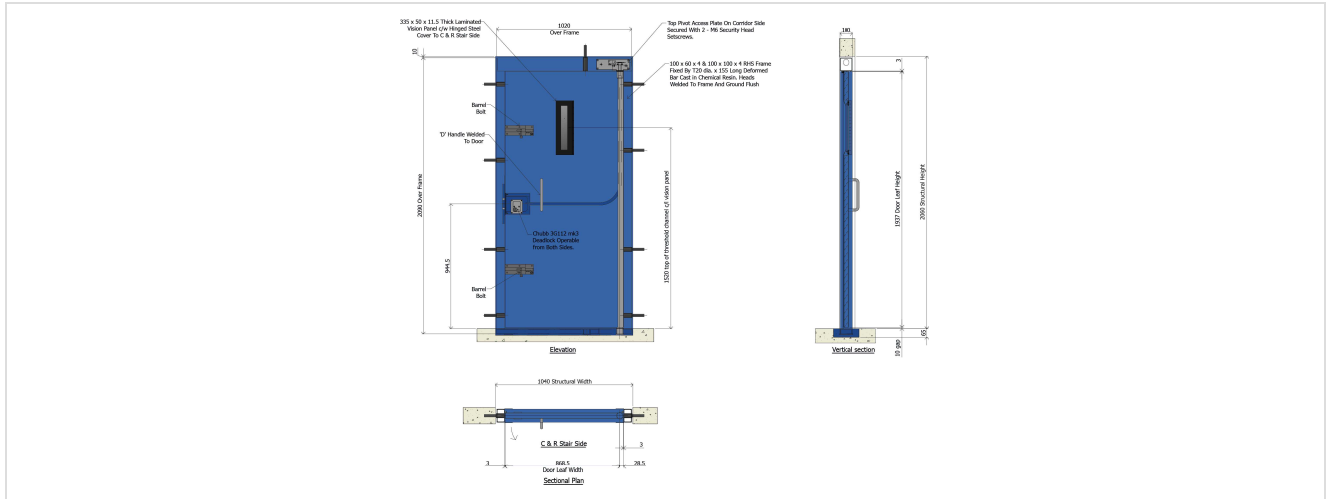
## Prison Control & Restraint (C&R) Door

**ASSA ABLOY**

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:







### Application:

A Chubb Locks Custodial Services Ltd steel CERTIFIRE approved door & frame service duct door with 60 mins fire resistance integrity typically located in-between cells. The door incorporates a Chubb 3G114 5 lever mortice deadlock, 3no. butt hinges and recessed pull handle outside. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- CERTIFIRE Approved Fire Resistance 60 mins Integrity to BS EN 1634-1:2000 and BS 476 part 22
- Typical Insulation Value 3.2W/m<sup>2</sup>k
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

#### Door Frame

- 1.5mm thick Pressed Steel Profile Frame 100x65x50mm 15mm Rebate Hot Dip Zinc Coated to BS EN 10346:2009
- 3 or 4 Sided Frame
- Knock-Down or Fully Welded Frame Joints
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings 7.5mm dia x 72mm CSK T30 Concrete Screws 8no. minimum per frame

#### Door Leaf

- 1.2mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- Pre-Expanded Small Cell Honeycomb Core
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 3no. per Leaf
- Chubb 3G114 5 Lever Mortice Lock Operable Outside Only

#### Standard Dimensions

- Structural Opening 600mm Wide x 1800mm High
- Overall Door Frame 590mm Wide x 1790mm High (4 Sided Frame) 1793mm (3 Sided Frame)
- Door Leaf 484mm Wide x 1684mm High 4 Sided Frame, 1730mm 3 Sided Frame x 44mm Thick
- Frame Clearance 5mm Jambs, 5mm Head & Bottom 4 Sided Frame, 7mm 3 Sided Frame
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head & Bottom 4 Sided Frame, 10mm undercut 3 Sided Frame

### Finish:

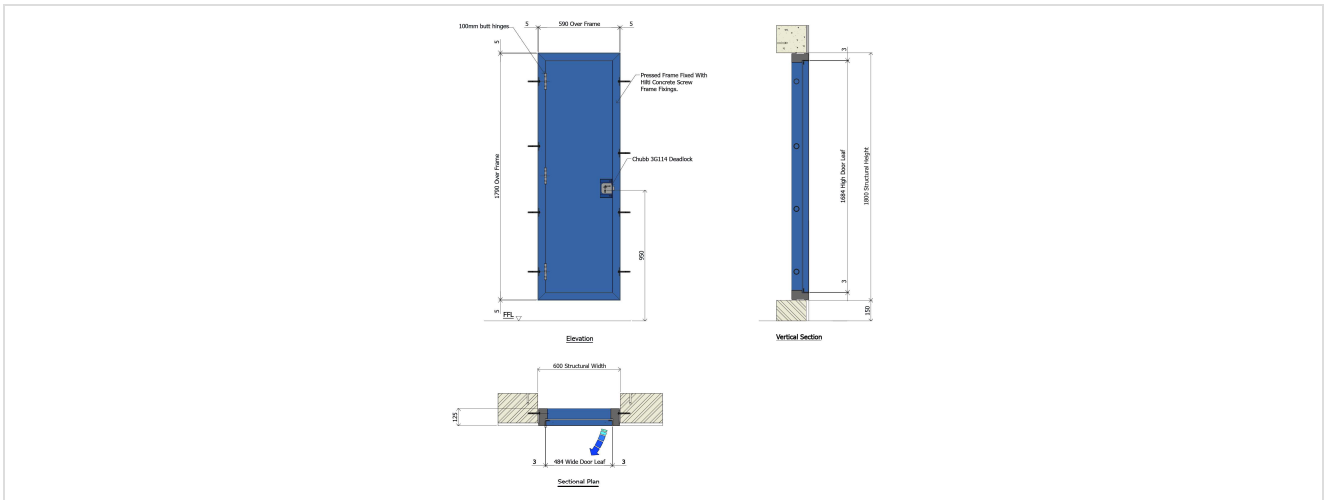
- Powder Coat Epoxy Primer to BS EN 12206-1:2004

# Personnel doors

## 9D026B

### Steel Service Duct Door

## Technical Design:



### Application:

A Chubb Locks Custodial Services Ltd steel door & frame service duct door with integral shoe locker typically located in-between cells. The door incorporates a Chubb 3G114 5 lever mortice deadlock, 3no. butt hinges and recessed pull handle outside. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Typical Insulation Value 3.2W/m<sup>2</sup>k
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

#### Door Frame

- 1.5mm thick Pressed Steel Profile Frame 100x65x50mm 15mm Rebate Hot Dip Zinc Coated to BS EN 10346:2009
- 3 or 4 Sided Frame
- Knock-Down or Fully Welded Frame Joints
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings 7.5mm dia x 72mm CSK T30 Concrete Screws 8no. minimum per frame

#### Door Leaf

- 1.2mm thick Cold Rolled Steel Door Skins Both Sides & All Hot Dip Zinc Coated to BS EN 10346:2009
- Pre-Expanded Small Cell Honeycomb Core
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- 1.5mm thick Pressed Steel Integral Shoe Locker with Simple Cam Lock
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 3no. per Leaf
- Chubb 3G114 5 Lever Mortice Lock Operable Outside Only
- Recessed Pull Handle Outside Cast Stainless Steel Grade 304

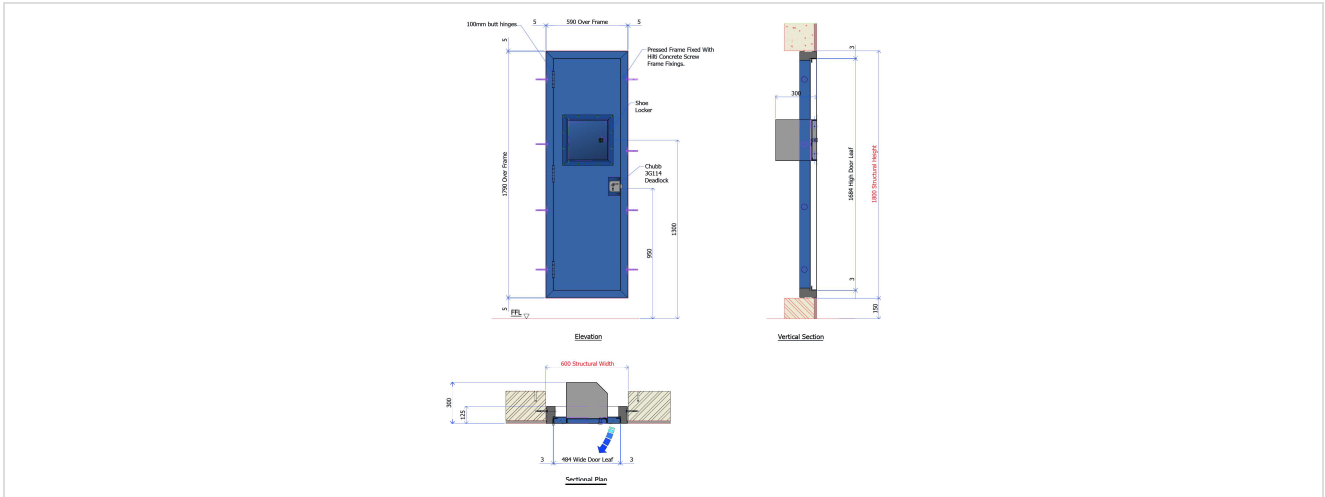
#### Standard Dimensions

- Structural Opening 600mm Wide x 1800mm High
- Overall Door Frame 590mm Wide x 1790mm High (4 Sided Frame) 1793mm (3 Sided Frame)
- Door Leaf 484mm Wide x 1684mm High 4 Sided Frame, 1730mm 3 Sided Frame x 44mm Thick
- Frame Clearance 5mm Jambs, 5mm Head & Bottom 4 Sided Frame, 7mm 3 Sided Frame
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head & Bottom 4 Sided Frame, 10mm undercut 3 Sided Frame

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:



### Application:

A Chubb Locks Custodial Services steel CERTIFIRE approved fire door & frame with 60 mins fire resistance integrity for use in prison wings. The door incorporates preparation for a NOMS approved deadlock, flush bolts & 3no. butt hinges per leaf.



### Specification:

#### Specifications, Performance Data & Tolerances

- CERTIFIRE Approved Fire Resistance 60 mins Integrity to BS EN 1634-1:2000 and BS 476 part 22
- Typical Insulation Value 3.2W/m<sup>2</sup>k
- Hinges Tested to BS EN 1935:2002 Grade 13 200,000 Cycles 120kg Door Leaf

#### Door Frame

- 1.5mm thick Pressed Steel Profile Frame 100x65x50mm 15mm Rebate Hot Dip Zinc Coated to BS EN 10346:2009
- 3 Sided Frame with Low Profile Aluminium Threshold Plate
- Knock-Down Frame Joints
- Self-Adhesive Neoprene Smoke Seals
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings 7.5mm dia x 72mm CSK T30 Concrete Screws 10no. minimum per frame

#### Door Leafs

- 1.5mm thick Cold Rolled Steel Door Skins Both Sides & All Edges Hot Dip Zinc Coated to BS EN 10346:2009
- Reinforced Door Construction
- Pre-Expanded Small Cell Honeycomb Core
- Heat Pressure Bonded 80C @ 500lbs/in<sup>2</sup> for 7mins
- Adhesive Apollo A9267 PU
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 3no. per Leaf
- Outer Steel Lock Box Welded Into Internal Door Construction
- Active Door leaf Prepared for NOMS Approved Deadlock Supplied & Fitted By Others
- Inactive Leaf Fitted with Two Fire Rated Steel Flush Bolts

#### Standard Dimensions

- Structural Opening 2186mm Wide x 2070mm High
- Overall Door Frame 2176mm Wide x 2063mm High
- Door Leaf 1033mm Wide x 2003mm High x 44mm Thick
- Frame Clearance 5mm Jamb, 7mm Head
- Door Leaf Clearance 4mm Leading Edge, 3mm hinge, 3mm head, 7mm undercut

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

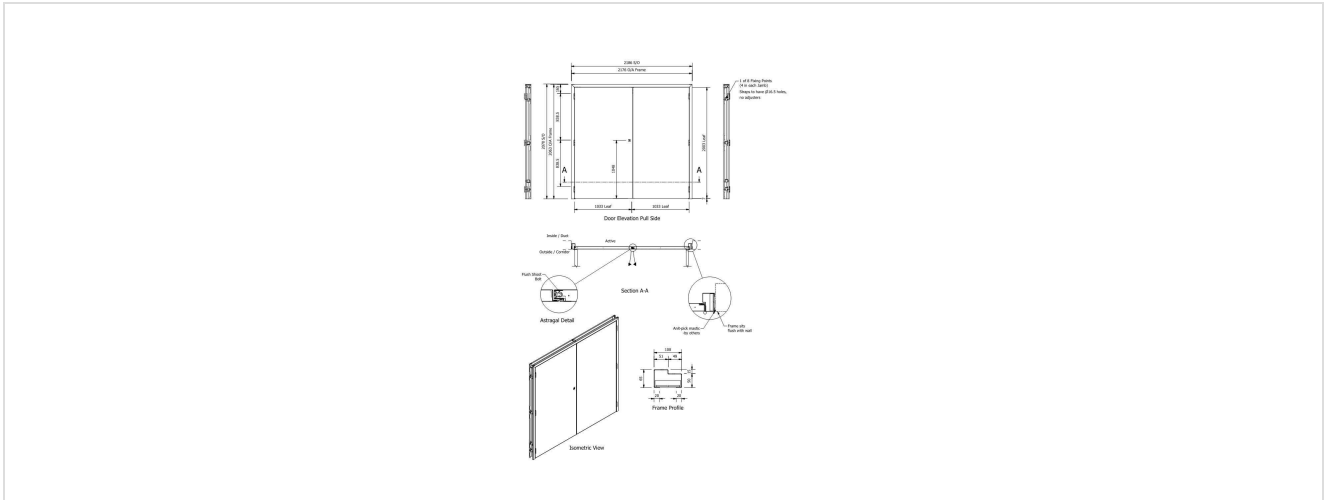
# Personnel doors

9D026D

Steel Service Duct Door Pair FD60

# ASSA ABLOY

## Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd solid timber door & frame personnel door with optional 60 mins fire resistance integrity typically used for staff offices, toilets etc. within custody. The door incorporates a Chubb 3J60 5 lever mortice deadlocking latch & knob furniture both sides and 4no. butt hinges. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

##### Door Frame

- Monolithic Hardwood Frame Section 3 Sides 125x75x50mm 25mm Rebate
- Sapele Hardwood Kiln Dried Moisture Content 10 -14% Density 640kg/m<sup>3</sup>
- Mortice & Tenon Joints
- Counterbored & Pelleted Fixings
- Frame Fixings 12mm dia x 100mm Sleeve Anchors 8no. minimum per frame

##### Door Leaf

- FD60 Certified 54mm thick Solid Timber Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles Average Density 460 - 500kg/m<sup>3</sup>
- Typically 9mm – 12mm Hardwood Lipping Bonded All 4 Edges Minimum Density 640kg/m<sup>3</sup> 15% MC
- Chubb 3J60 5 Lever Mortice Deadlocking latch with knob furniture both sides
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 4no. per Leaf

##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High
- Door Leaf 794mm Wide x 2030mm High Excluding Hinge(s) x 54mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut

#### Finish:

- Water Based Two Coat Prime Paint

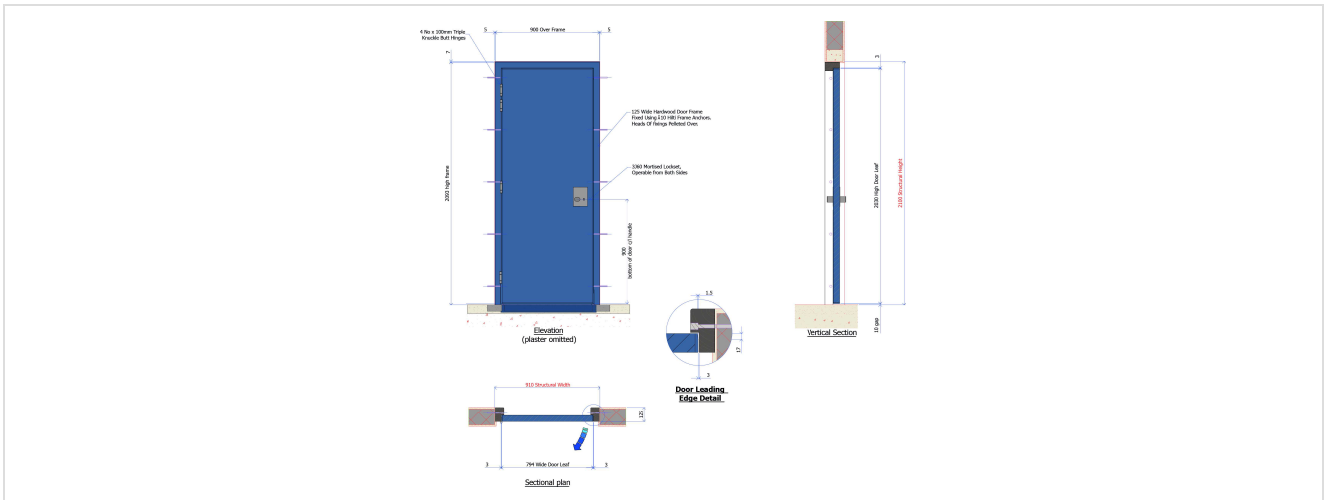


# Personnel doors

## 9D027A

### Timber Personnel Door

## Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd solid timber door & frame personnel door with optional 60 mins fire resistance integrity typically used for staff offices, toilets etc. within custody. The door incorporates a laminated glass vision panel, Chubb 3J60 5 lever mortice deadlocking latch & knob furniture both sides and 4no. butt hinges. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

##### Door Frame

- Monolithic Hardwood Frame Section 3 Sides 125x75x50mm 25mm Rebate
- Sapele Hardwood Kiln Dried Moisture Content 10 -14% Density 640kg/m<sup>3</sup>
- Mortice & Tenon Joints
- Counterbored & Pelleted Fixings
- Frame Fixings 12mm dia x 100mm Sleeve Anchors 8no. minimum per frame

##### Door Leaf

- FD60 Certified 54mm thick Solid Timber Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles Average Density 460 - 500kg/m<sup>3</sup>
- Typically 9mm – 12mm Hardwood Lipping Bonded All 4 Edges Minimum Density 640kg/m<sup>3</sup> 15% MC
- Chubb 3J60 5 Lever Mortice Deadlocking latch with knob furniture both sides
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 4no. per Leaf
- Laminated Glass vision Panel with Hardwood Beading

##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 900mm Wide x 2093mm High
- Door Leaf 794mm Wide x 2030mm High Excluding Hinge(s) x 54mm Thick
- Frame Clearance 5mm Jambs, 7mm Head
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 3mm head, 10mm undercut

#### Finish:

- Water Based Two Coat Prime Paint

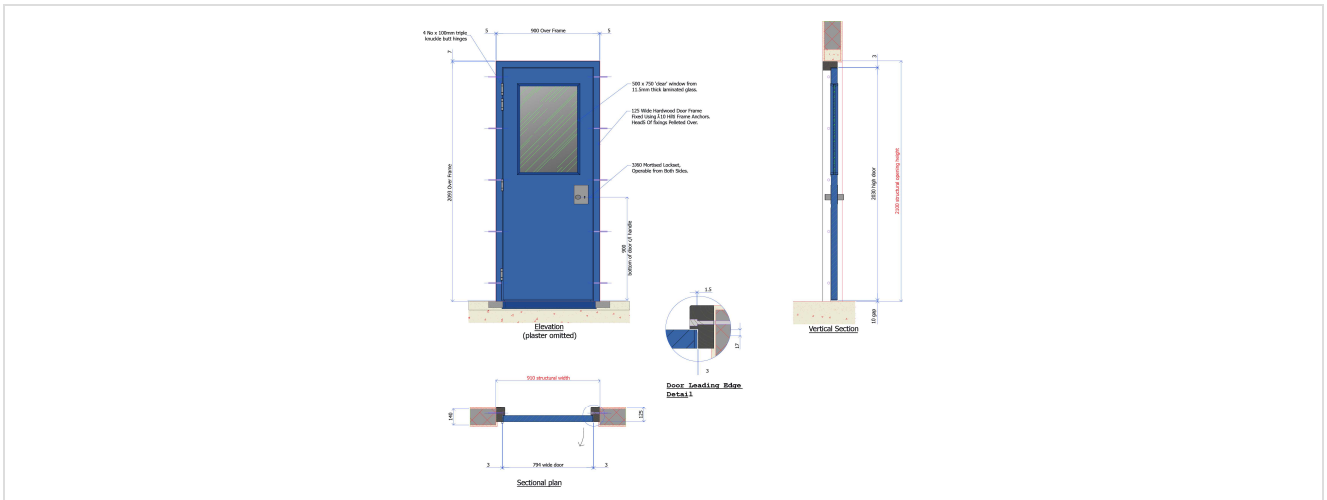
# Personnel doors

9D027B

## Half Glazed Timber Personnel Door

# ASSA ABLOY

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd heavy duty secure steel door constructed in accordance with The Home Office Firearms Security Handbook 2005 and The Health & Safety Executive Circular to Chief Officers of Police Mo.1 2005 for the safe storage of firearms.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Health & Safety Executive Circular to Chief Officers of Police No.1 2005 for the Security of Licenced & Registered Explosives Stores & Registered Premises
- Conforms to the Firearms Security Handbook 2005 Produced By The Home Office, The Associations of Chief Police Officers and The British Sports Council

##### Door Frame

- 100x75x10mm Rolled Steel Angle 3 Sided Frame to BS EN 10025:2004
- 100x10mm Flat Section Continuous Fixing Plates 3 Sides to BS EN 10025:2004
- 100x10mm Steel Threshold Plate
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Wall Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 24no. min

##### Door Leaf

- 10mm thick One Piece Cold Rolled Steel Electro-Zinc Coated to BS EN 10152:2009
- All Edges De-burred & Ground Smooth
- 8mm Dia x 150mm Welded Steel Pull Handle Outside Deliberately Weak So Cannot Be Used to Attack The Door
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- 2no. Chubb 3G317 Heavy Duty Mortice Deadlocks Keyed to Differ
- Locks Mounted into Reinforced Outer Steel Boxes Continuously Welded to Door Leaf
- Anti-Drill Lock Plates Welded To Outside Of Door Leaf
- 3no. Heavy Duty Anti-Lift Strap Hinges Continuously Welded to Door Leaf & Frame
- 4no. Heavy Duty Steel Hinge Bolts Continuously Welded to Door Leaf

##### Standard Dimensions

- Structural Opening 910mm Wide x 2100mm High
- Overall Door Frame 896mm Wide x 2092mm High (Height From Finished Floor Level as Threshold Cast into Floor)
- Door Leaf 836mm Wide x 2053mm High Excluding Hinge(s) x 10mm Thick
- Frame Clearance 7mm Jambs, 8mm Head
- Door Leaf Clearance 20mm Leading Edge, 20mm hinge, 20mm head, 10mm undercut

# Personnel doors

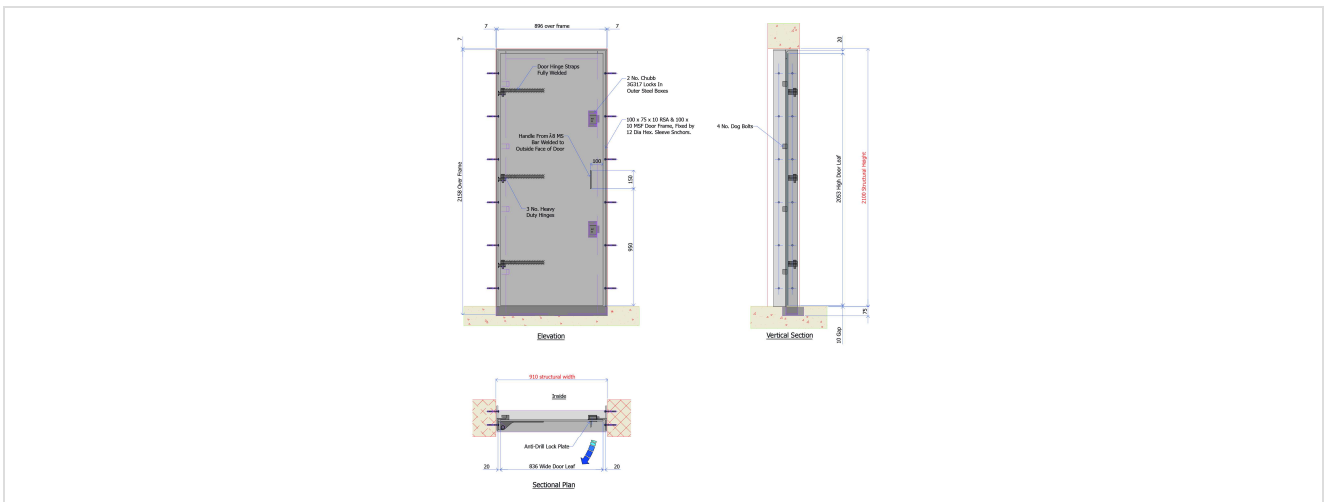
## 9D028

### Firearms Security Door

## Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

## Technical Design:



### Application:

A Chubb Locks Custodial Services Ltd solid timber decency door & frame typically used in shower facilities located within custody. The door incorporates a heavy duty roller catch and 3no. butt hinges. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

### Specification:

#### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Hinges Tested to BS EN 1935: 2002 Grade 13 200,000 Cycles 120kg Door Leaf

#### Door Frame

- Two Part Ash Hardwood Frame Posts 2 Sides 125x45mm Plus 40x20mm Planted Rebates
- Loose Ash Rebate Stops Secured by CSK Security Head Screws
- European Ash Hardwood Kiln Dried Moisture Content 10 -14% Density 710kg/m<sup>3</sup>
- Concealed Frame Fixings Beneath Rebate Stops
- Frame Fixings Hilti HRD-CR 10x140mm Anchors 6no. minimum per door

#### Door Leaf

- 44mm thick Solid Timber Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles Average Density 460 - 500kg/m<sup>3</sup>
- White Matt Formica Facing Heat Pressure Bonded to Both Sides 45C @2500lbs/in<sup>2</sup> for 6 mins
- Typically 9mm – 12mm Hardwood Ash Lipping Bonded All 4 Edges Minimum Density 710kg/m<sup>3</sup> 10 -14% MC
- Heavy Duty Roller Catch
- 102mm x 76mm Stainless Steel Grade 304 High Performance Ball Bearing Butt Hinges 3no. per Leaf

#### Standard Dimensions

- Structural Opening 1000mm Wide
- Overall Door Frame Posts 990mm Wide x 1515mm High 400mm From FFL
- Door Leaf 894mm Wide x 1515mm High Excluding Hinge(s) x 46mm Thick
- Frame Clearance 5mm Jambs
- Door Leaf Clearance 3mm Leading Edge, 3mm hinge, 400mm from FFL

### Finish:

- Lacquer Two Pack Semi-Matt 20% Sheen

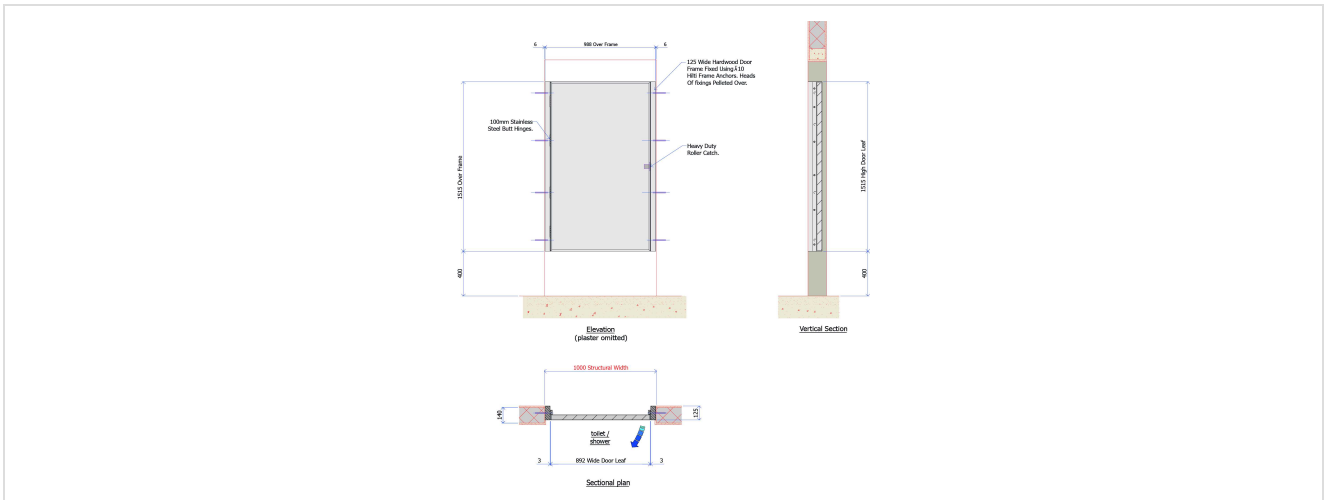
# Personnel doors

9D030

Decency Door

# ASSA ABLOY

## Technical Design:



**Gates**

**ASSA ABLOY**



#### Application:

A Chubb Locks Custodial Services Ltd heavy duty single barred grille gate conforming to the Police Buildings Custody Design Guide, National Police Estates Group Best Practice Document, Court Standards & Design Guide and the standards & specifications required by the Prison Service.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Conforms to the Court Standards & Design Guide
- Conforms to the standards & specifications required by the Prison Service
- 150mm Max Centres 30mm dia Bars
- 460mm Max Centres 65x12mm Flat Steel Horizontal Frame Sections

##### Gate Leaf

- 65x12mm Flat Steel Section Frame & Horizontals to BS EN 10025:2004
- 30mm diameter Steel Vertical Bars to BS EN 10025:2004
- Bars Continuously Welded at Each Intersection
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Anti-Spring Horns Welded to Hinge Side of Gate to Prevent Unauthorised 'Springing' of Lock
- Gate Leading Edge to Have Anti-Lift Horn to Prevent Unauthorised lifting from Bottom Hinge Socket
- Outer Steel Lock Box Continuously Welded into Gate leaf
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Welded Steel Lock Shroud to Protect Lock Bolt

##### Hinges

- 180 degree Opening Top & Bottom Pivot Hinges
- Bottom Hinge Ball Bearing Mounted Cast Into Floor
- All Welds Continuous
- Dust Cover Over Bottom Hinge Socket
- Top Hinge Pin Locking with Phosphor Bronze Bearing
- Top Hinge Pin Bracketed to Wall & Fixed with 3no. Hilti HSL-TZ M8/20 Sleeve Anchors

##### Slam Angle

- 65x12mm Flat Steel Sections Joined to Form Angle to BS EN 10025:2004
- Machined Solid Steel Lock Bolt Receiver
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Wall Fixings Hilti HSL-TZ CSK M8/20 Sleeve Anchors 6no. min

##### Standard Dimensions

- Structural Opening 1125mm Wide x 2100mm High
- Gate Leaf 970mm Wide x 1956mm High Excluding

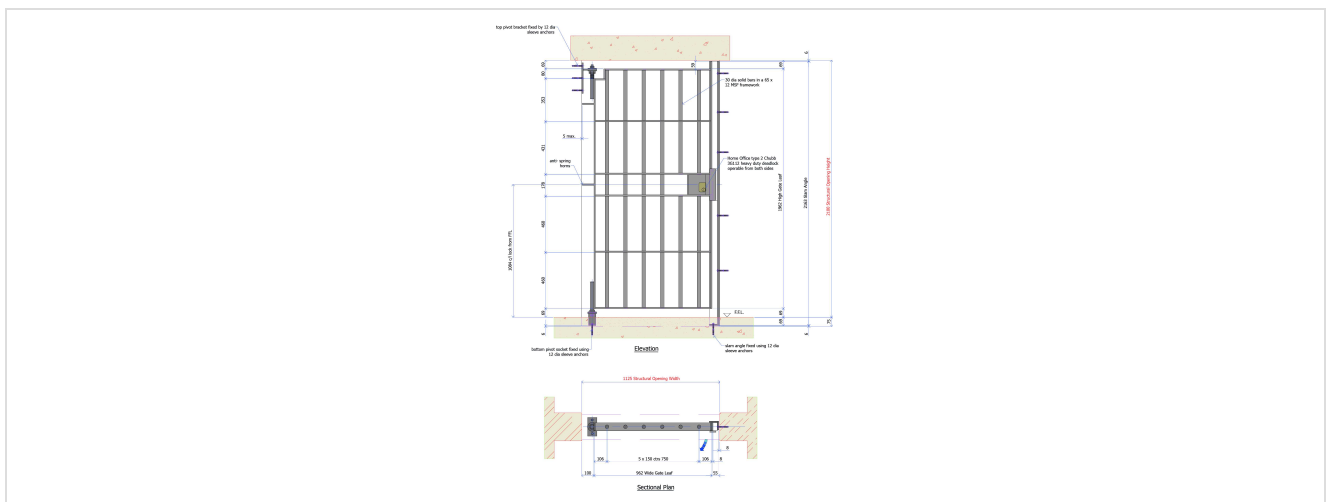
Hinge(s) x 65mm Thick

- Gate Leaf Clearance 55mm Leading Edge to Jamb, 100mm hinge, 69mm head, 75mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd heavy duty barred grille gate with side panel conforming to the Police Buildings Custody Design Guide, National Police Estates Group Best Practice Document, Court Standards & Design Guide and the standards & specifications required by the Prison Service.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document
- Conforms to the Court Standards & Design Guide
- Conforms to the standards & specifications required by the Prison Service
- 150mm Max Centres 30mm dia Bars
- 460mm Max Centres 65x12mm Flat Steel Horizontal Frame Sections

##### Gate Leaf

- 65x12mm Flat Steel Section Frame & Horizontals to BS EN 10025:2004
- 30mm diameter Steel Vertical Bars to BS EN 10025:2004
- Bars Continuously Welded at Each Intersection
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Anti-Spring Horns Welded to Hinge Side of Gate to Prevent Unauthorised 'Springing' of Lock
- Gate Leading Edge to Have Anti-Lift Horn to Prevent Unauthorised lifting from Bottom Hinge Socket
- Outer Steel Lock Box Continuously Welded into Gate leaf
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Welded Steel Lock Shroud to Protect Lock Bolt

##### Side Panel

- 65x12mm Flat Steel Section Frame & Horizontals to BS EN 10025:2004
- 30mm diameter Steel Vertical Bars to BS EN 10025:2004
- Bars Continuously Welded at Each Intersection
- 65x12 Flat Steel Sections Joined to Form Slam Angle to BS EN 10025:2004
- Machined Solid Steel Lock Bolt Receiver
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Anti-Spring Horns Welded to Wall Side of Side Panel to Prevent Unauthorised 'Springing' of Lock
- 6mm thick Top & Bottom Fixing Plates to BS EN 10025:2004
- Floor & Head Fixings Hilti HSL-TZ M8/20 Sleeve Anchors

##### Hinges

- 180 degree Opening Top & Bottom Pivot Hinges
- Bottom Hinge Ball Bearing Mounted Cast Into Floor
- All Welds Continuous

- Dust Cover Over Bottom Hinge Socket
- Top Hinge Pin Locking with Phosphor Bronze Bearing
- Top Hinge Pin Bracketed to Wall & Fixed with 3no. Hilti HSL-TZ M8/20 Sleeve Anchors

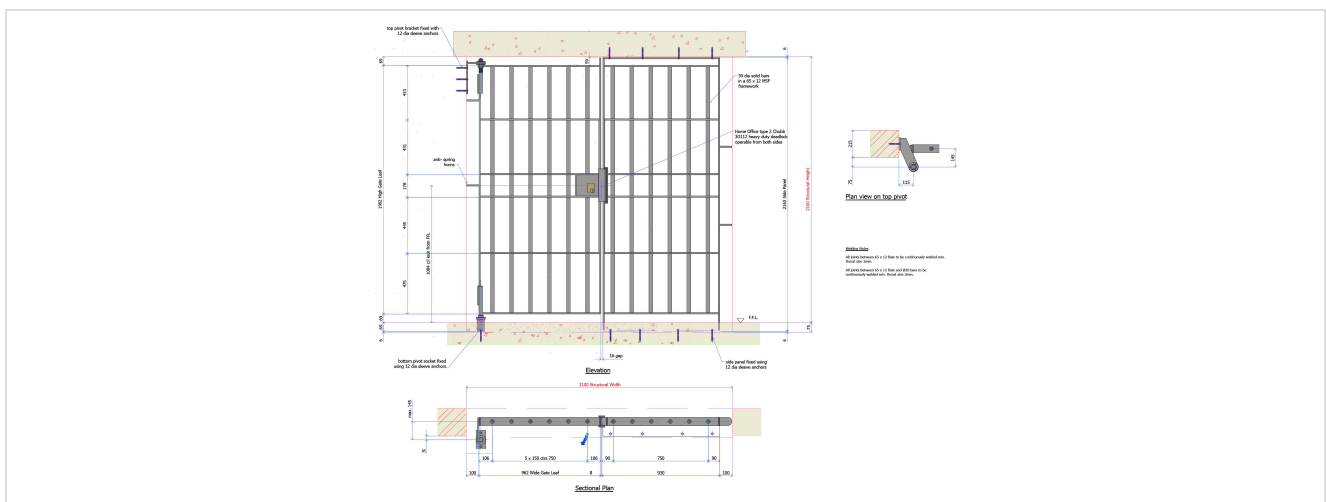
#### Standard Dimensions

- Structural Opening 2100mm Wide x 2100mm High
- Gate Leaf 912mm Wide x 1956mm High Excluding Hinge(s) x 65mm Thick
- Gate Leaf Clearance 8mm Leading Edge to Slam, 100mm hinge, 69mm head, 75mm undercut
- Side Panel 980mm Wide x 2100mm High from FFL
- Side panel Clearance 100mm to Jamb

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd medium duty single barred grille gate traditionally used in Armed Forces barracks. The design was taken from previous versions of the Police Buildings Custody Design Guide and Court Standards & Design Guide.

#### Specification:

##### Specifications, Performance Data & Tolerances

- 150mm Max Centres 20mm dia Bars
- 470mm Max Centres 50x25x3mm Rolled Hollow Steel Horizontal Frame Sections

##### Gate Leaf

- 50x25x3mm Rolled Hollow Steel Section Frame & Horizontals to BS EN 10025:2004
- 20mm diameter Steel Vertical Bars to BS EN 10025:2004
- Bars Continuously Welded at Each Intersection
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Outer Steel Lock Box Continuously Welded into Gate leaf
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Welded Steel Lock Shroud to Protect Lock Bolt

##### Hinges

- 90 degree Opening Top & Bottom Pivot Hinges
- Bottom Hinge Ball Bearing Mounted Cast Into Floor
- All Welds Continuous
- Top Hinge Pin Socket Welded to Header Rail
- Top Hinge Pin Bracketed to Wall via Header Rail & Fixed with 3no. Hilti HSL-TZ M8/20 Sleeve Anchors

##### Slam Angle

- 65x50x6mm Rolled Steel Angle to BS EN 10025:2004
- Preparation for Lock Bolt with Welded Back Box
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Wall Fixings Hilti HSL-TZ CSK M8/20 Sleeve Anchors 6no. min

##### Standard Dimensions

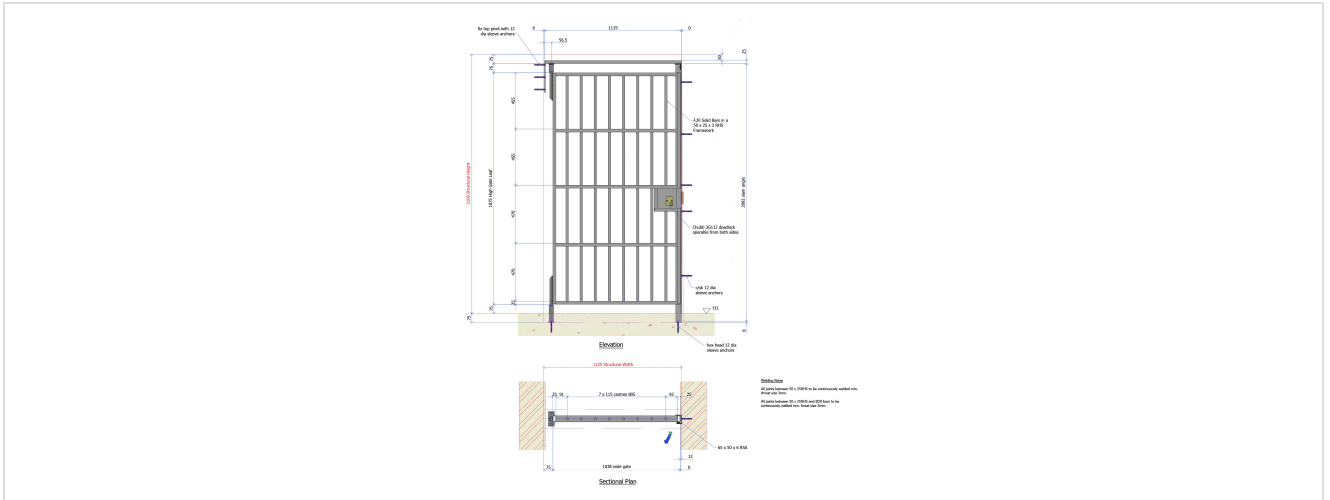
- Structural Opening 1125mm Wide x 2100mm High
- Gate Leaf 1038mm Wide x 1875mm High Excluding Hinge(s) x 50mm Thick
- Gate Leaf Clearance 6mm Leading Edge to Slam Angle, 75mm hinge, 75mm head/25mm Header Rail/50mm Clearance Over, 75mm undercut

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004



#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd medium duty single barred grille gate traditionally used in Armed Forces barracks. The design was taken from previous versions of the Police Buildings Custody Design Guide and Court Standards & Design Guide.

#### Specification:

##### Specifications, Performance Data & Tolerances

- 150mm Max Centres 20mm dia Bars
- 470mm Max Centres 50x25x3mm Rolled Hollow Steel Horizontal Frame Sections

##### Gate Leaf

- 50x25x3mm Rolled Hollow Steel Section Frame & Horizontals to BS EN 10025:2004
- 20mm diameter Steel Vertical Bars to BS EN 10025:2004
- Bars Continuously Welded at Each Intersection
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Anti-Spring Horns Welded to Hinge Side of Gate to Prevent Unauthorised 'Springing' of Lock
- Gate Leading Edge to Have Anti-Lift Horn to Prevent Unauthorised lifting from Bottom Hinge Socket
- Outer Steel Lock Box Continuously Welded into Gate leaf
- Type 2 Chubb 3G112 Heavy Duty Mortice Lock Operable Both Sides
- Welded Steel Lock Shroud to Protect Lock Bolt

##### Side Panel

- 50x25x3mm Rolled Hollow Steel Section Frame & Horizontals to BS EN 10025:2004
- 20mm diameter Steel Vertical Bars to BS EN 10025:2004
- 65x50x6mm Rolled Steel Slam Angle to BS EN 10025:2004
- Preparation for Lock Bolt with Welded Back Box
- Bars Continuously Welded at Each Intersection
- 65x12 Flat Steel Sections Joined to Form Slam Angle to BS EN 10025:2004
- Machined Solid Steel Lock Bolt Receiver
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Anti-Spring Horns Welded to Wall Side of Side Panel to Prevent Unauthorised 'Springing' of Lock
- 6mm thick Top & Bottom Fixing Plates to BS EN 10025:2004
- Floor & Head Fixings Hilti HSL-TZ M8/20 Sleeve Anchors

##### Hinges

- 90 degree Opening Top & Bottom Pivot Hinges
- Bottom Hinge Ball Bearing Mounted Cast Into Floor
- All Welds Continuous
- Top Hinge Pin Socket Welded to Header Rail
- Top Hinge Pin Bracketed to Wall via Header Rail & Fixed with 3no. Hilti HSL-TZ M8/20 Sleeve Anchors

##### Standard Dimensions

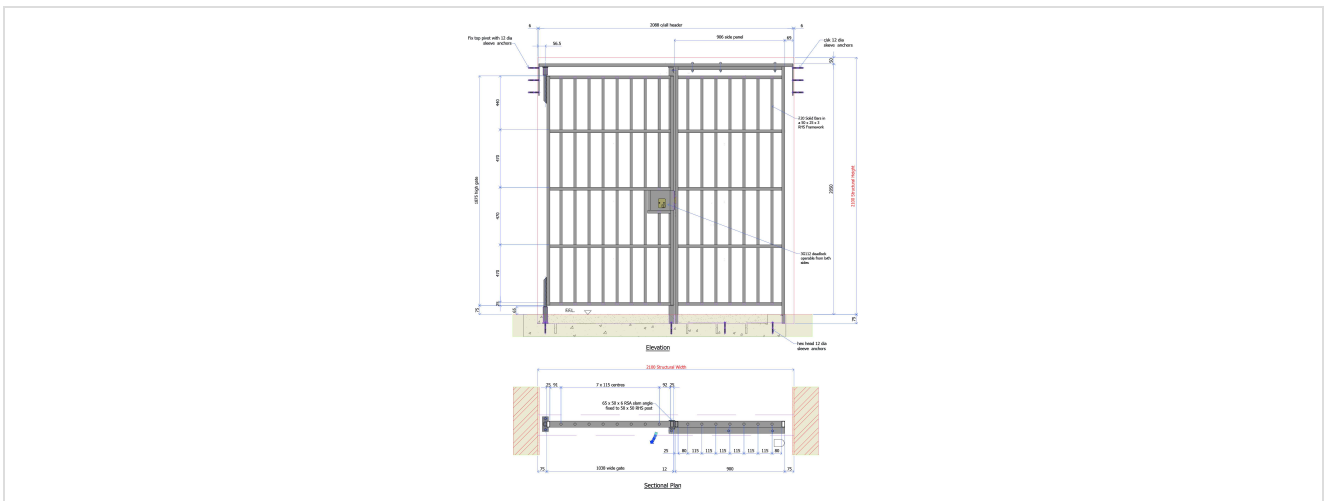


- Structural Opening 2100mm Wide x 2100mm High
- Gate Leaf 1038mm Wide x 1875mm High Excluding Hinge(s) x 50mm Thick
- Gate Leaf Clearance 6mm Leading Edge to Slam Angle, 75mm hinge, 75mm head/25mm Header Rail/50mm Clearance Over, 75mm undercut
- Side Panel 900mm Wide x 2025mm High from FFL
- Side Panel Clearance to Jamb 75mm

### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:





#### Application:

A Chubb Locks Custodial Services Ltd prison manhole barred grille gate constructed to the standards & specifications required by the Prison Service. Typically used to secure manholes within prison grounds.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms To The Standards & Specifications Required By The Prison Service & Ministry of Justice
- 150mm Max Centres 30mm dia Bars
- 460mm Max Centres 65x12mm Flat Steel Horizontal Frame Sections

##### Gate Leaf

- 65x12mm Flat Steel Section Frame & Horizontals to BS EN 10025:2004
- 30mm diameter Steel Bars to BS EN 10025:2004
- Bars Continuously Welded at Each Intersection
- 150x12mm Flat Steel Section Leading Edge to BS EN 10025:2004 With Hasp & Staple preparation
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- 30mm diameter Full Length Solid Steel Hinge Pin
- Non-Removable Hinged Steel Lifting Handle
- Non-Removable Hinged Steel Gate Stay

##### Gate Frame

- 50x12mm Flat Steel Section Frame to BS EN 10025:2004
- Heavy Duty Fabricated Hasp & Staple Continuously Welded into Gate Frame
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Stitch Welded Fabrication
- Welding to BS EN 1011-2: 2001
- Floor Fixings 4no. M12 Chemical Resin Anchors

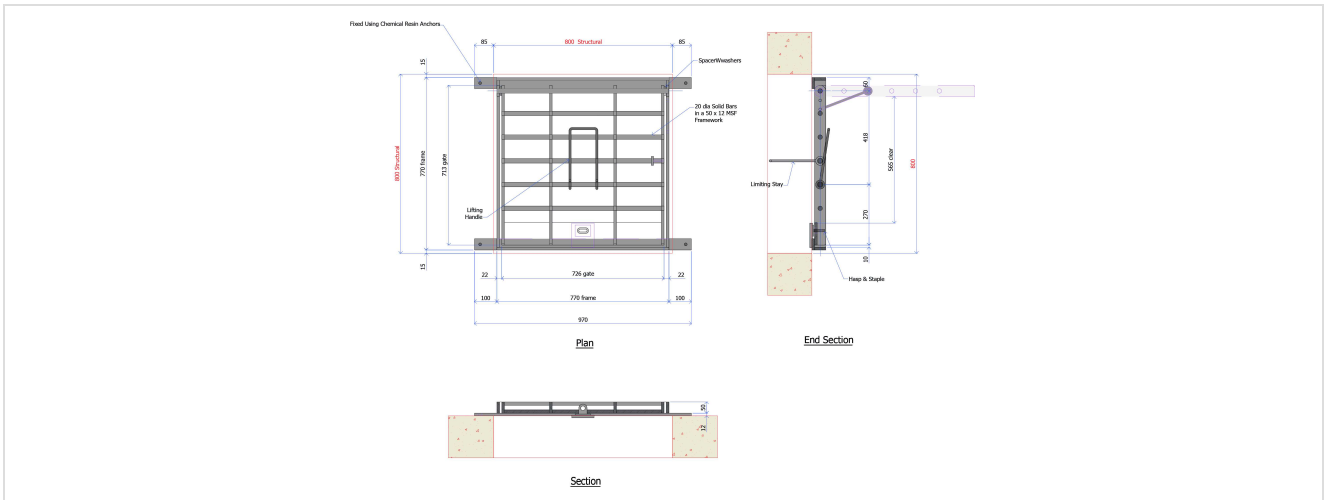
##### Standard Dimensions

- Structural Opening 800mm Wide x 800mm Long

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

## Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd overhead sliding barred grille gate constructed to the standards & specifications required by the Prison Service. Typically used to secure roof voids or service areas.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms To The Standards & Specifications Required By The Prison Service & Ministry of Justice
- 150mm Max Centres 30mm dia Bars
- 460mm Max Centres 65x12mm Flat Steel Horizontal Frame Sections

##### Gate Leaf

- 65x12mm Flat Steel Section Frame & Horizontals to BS EN 10025:2004
- 30mm diameter Steel Vertical Bars to BS EN 10025:2004
- Bars Continuously Welded at Each Intersection
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Outer Steel Lock Box Continuously Welded into Gate leaf
- Type 2 Chubb 3M56 Heavy Duty Mortice Hook Bolt Lock Operable Both Sides
- 4no. 100mm Diameter Cast Iron Wheels

##### Sliding Track Gear

- 90x90x6mm Rolled Steel Angle to BS EN 10025:2004
- 80x90x6mm Rolled Steel Angle to BS EN 10025:2004
- 150x6mm Steel Flat Base Plates to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Stitch Welded Fabrication
- Welding to BS EN 1011-2: 2001
- Floor Fixings 6no. M12 Chemical Resin Anchors Per Track

##### Slam Angle

- 90x90x6mm Rolled Steel Angle to BS EN 10025:2004
- 6mm thick Cold Rolled Flat Steel Gusset Plates Electro-Zinc Coated to BS EN 10152:2009
- Hook Bolt Lock Preparation With Box To Conceal Bolt
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Floor Fixings 2no. M12 Chemical Resin Anchors

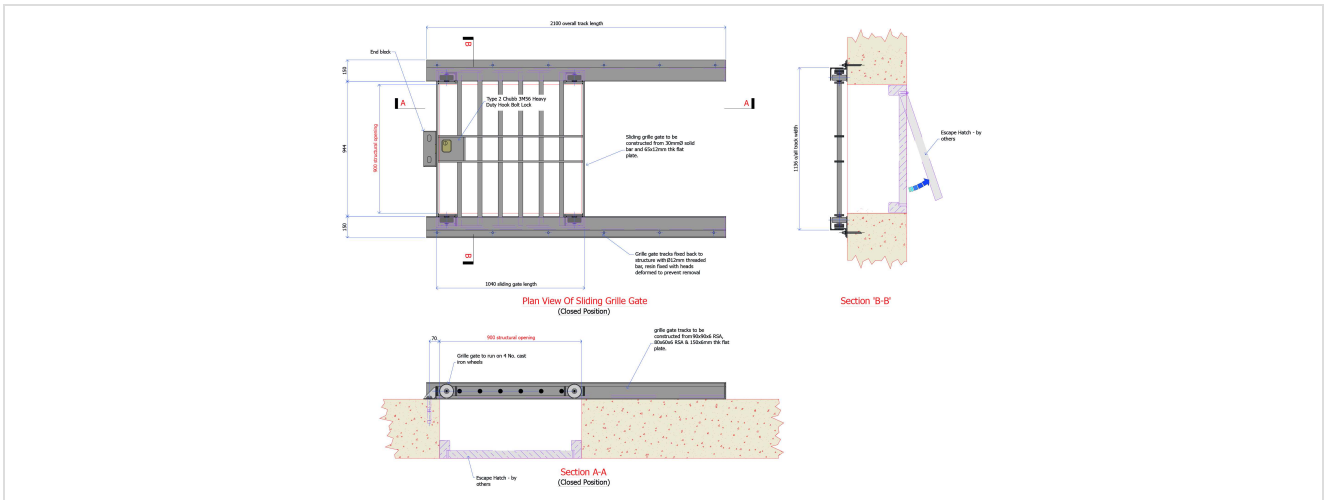
##### Standard Dimensions

- Structural Opening 900mm Wide x 900mm Long

#### Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

## Technical Design:





#### Application:

A Chubb Locks Custodial Services Ltd Home Office specification ventilation grille for police cells incorporating 2mm diameter holes conforming to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document

##### Grille

- Double 2mm thick Sheets of Stainless Steel to Form a 4mm thick Plate Grade 304 to BS EN 10088
- Double Plates Securely Spot Welded Together
- 2.0mm diameter MAX holes @ 4mm Staggered Pitch
- Ventilation 18% Free Area
- Securely Stitch Welded Into Outer Frame
- Grille Flush With Outer Frame

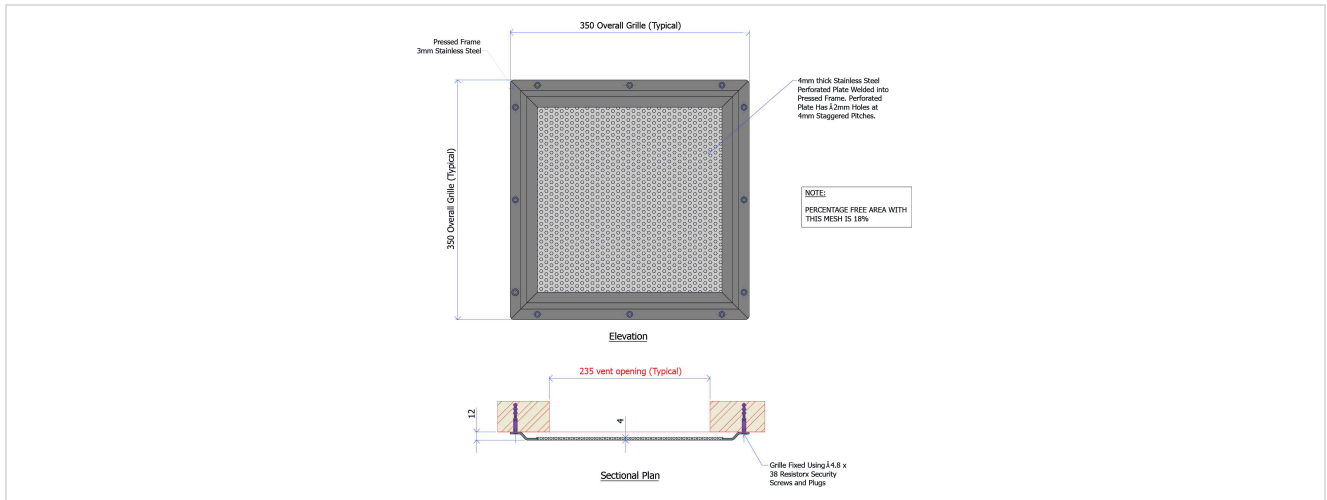
##### Frame

- 3mm thick Pressed Profile Stainless Steel Grade 304 to BS EN 10088
- Welded & Ground Smooth Corners
- 180 Grit Dull Polish RA 1.0 – 1.7 EN 1J or 2J
- Radius Corners & All Edges De-Burred
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- 4.8mm diameter x 38mm CSK Security Head Screws  
Stainless Steel Grade A2 & Wall Plugs

#### Finish:

- Stainless Steel 180 Grit Dull Polish RA 1.0 – 1.7 EN 1J or 2J

### Technical Design:



## Application:

A Chubb Locks Custodial Services Ltd robust, anti-vandal, ligature-resisting steel radiator covers for protecting radiators in secure areas.

## Specification:

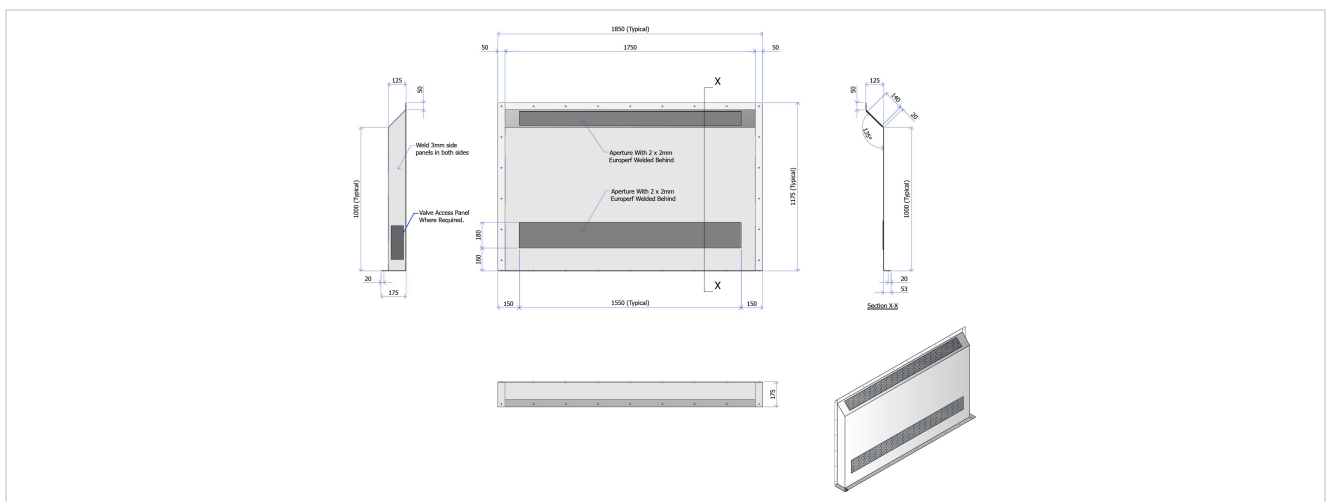
### Construction

- 3mm thick Cold Rolled Pressed Steel Electro-Zinc Coated to BS EN 10152:2009
- Upper & Lower Areas of 2.0mm diameter MAX Perforations @ 4mm Staggered Pitch
- Removable Access Covers for Radiator Valves Secured By Security Head Screws
- Fully Welded Joints & Ground Smooth
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Wall & Floor Fixings 4.8mm diameter x 38mm CSK Security Screws Stainless A2 & Plugs

## Finish:

- Powder Coat Epoxy Primer to BS EN 12206-1:2004

## Technical Design:









#### Application:

##### Purpose

To provide discreet viewing into a cell/bedroom from the corridor.

##### Product Codes

- 9H008/050/01/W – Viewer Corridor/External Side
- 9H008/051/01/W – Viewer Cell/Internal Side

##### Overview

The 9H008 Vertical Louvred Viewer is designed to be clamped together through a hole in the door. A ligature resisting knob provides access to operate the brushed stainless steel louvres allowing viewing into the room. The cell side unit features a laminated toughened glass/polyurethane/hard coat polycarbonate assembly to provide clear vision and impact resistance.

##### Standard Features

- Solid machined anodised facia plates on both sides of the door
- Quiet operation
- 21mm laminated toughened viewing unit on the internal side
- 1mm polycarbonate window on the external side
- Polished stainless steel louvres



#### Specification:

##### Dimensions & Weights (Approx)

###### External Side

- 130mm wide
- 370mm high
- 10.4mm deep (off the door face)

###### Internal Side

- 130mm wide
- 372mm high
- 6mm deep (off the door face)

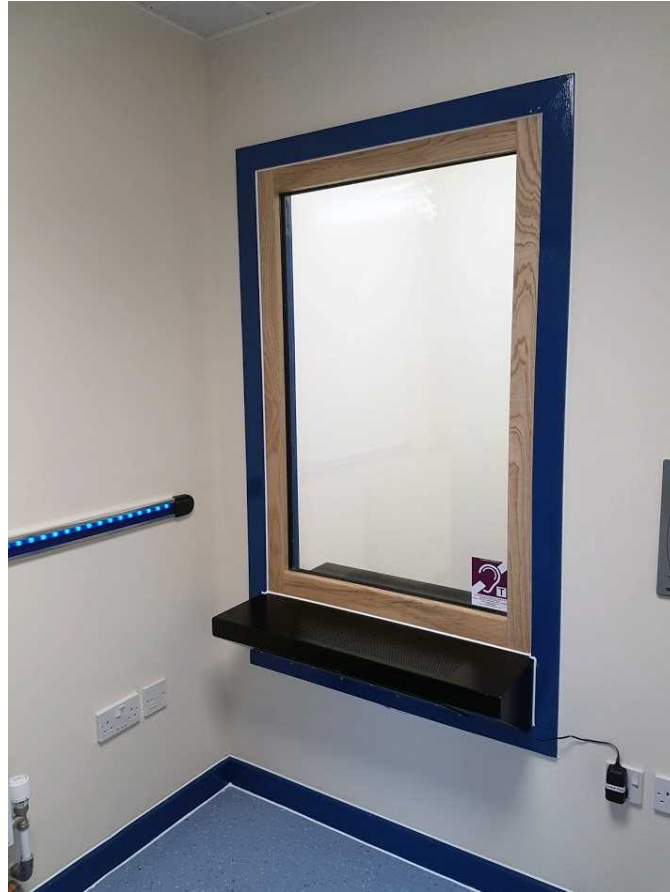
#### Finish:

##### Materials and Finishes

- External side facia – Black anodised aluminium
- External side back plate – Black anodised aluminium
- Internal side facia – Silver anodised aluminium
- Internal side back plate – Silver anodised aluminium
- Louvred plates – Stainless steel
- Operating knob – Stainless steel

##### Additional Items

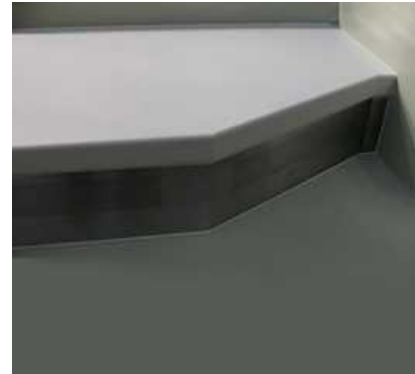
- Fixings not included – available upon request





#### Application:

A Chubb Locks Custodial Services Ltd Home Office specification cell bench for police cells constructed from a supporting steel underframe with perforated stainless steel front panel and Corian solid surface & plywood seat. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.



#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document

##### Supporting Underframe

- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- 40x40x6mm Flat Steel Floor Fixing Plates to BS EN 10025:2004
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 8no. minimum per frame

##### Front Panel

- 2mm thick Stainless Steel Grade 304 to BS EN 10088
- 2.0mm diameter MAX Perforations at 4mm Staggered Pitch
- 180 Grit Dull Polish RA 1.0 – 1.7 EN 1J or 2J

##### Bench Seat

- Double Layers of 25mm thick Water Boiling Proof Grade Birch Plywood
- 13mm thick Corian Solid Surface Fire Retardant Class A0 Glacier White
- Corian Pressure Bonded to Plywood using 3M Fastbond 40 Neoprene Adhesive with the Approved Home Office Bonding Method
- Home Office Specification Laminated Nosing Detail
- Pelleted Corian Seat Fixings using 'Bone' Coloured Adhesive for Identification

##### Standard Dimension

- 640mm Wide x 243mm High x Any Length Typically 2400 – 2700mm

#### Finish:

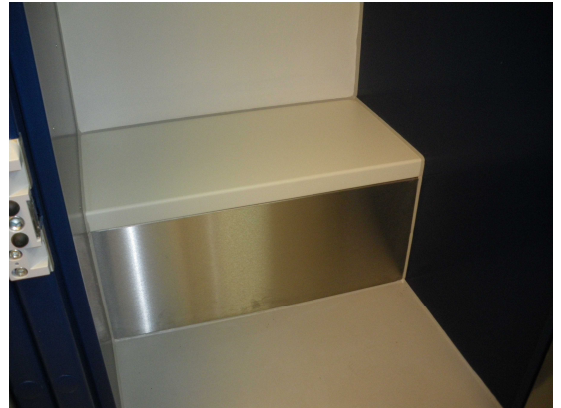
- Supporting Underframe Powder Coat Epoxy Primer to BS EN 12206-1:2004



#### Application:

A Chubb Locks Custodial Services Ltd Home Office specification cell bench for police holding cells constructed from a supporting steel underframe with perforated stainless steel front panel and Corian solid surface & plywood seat. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:



##### Specifications, Performance Data & Tolerances

- Conforms to the Police Buildings Custody Design Guide
- Conforms to the National Police Estates Group Best Practice Document

##### Supporting Underframe

- 40x40x3mm & 60x40x3mm Internal Rolled Hollow Section Skeleton Framework to BS EN 10025:2004
- 40x40x6mm Flat Steel Floor Fixing Plates to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Frame Fixings Hilti HSL-TZ M8/20 Sleeve Anchors 8no. minimum per frame

##### Front Panel

- 2mm thick Stainless Steel Grade 304 to BS EN 10088
- 2.0mm diameter MAX Perforations at 4mm Staggered Pitch
- 180 Grit Dull Polish RA 1.0 – 1.7 EN 1J or 2J

##### Bench Seat

- Double Layers of 25mm thick Water Boiling Proof Grade Birch Plywood
- 13mm thick Corian Solid Surface Fire Retardant Class A0 Glacier White
- Corian Pressure Bonded to Plywood using 3M Fastbond 40 Neoprene Adhesive with the Approved Home Office Bonding Method
- Home Office Specification Laminated Nosing Detail
- Pelleted Corian Seat Fixings using 'Bone' Coloured Adhesive for Identification

##### Standard Dimensions

- 640mm Wide x 465mm High x Any Length

#### Finish:

- Supporting Underframe Powder Coat Epoxy Primer to BS EN 12206-1:2004



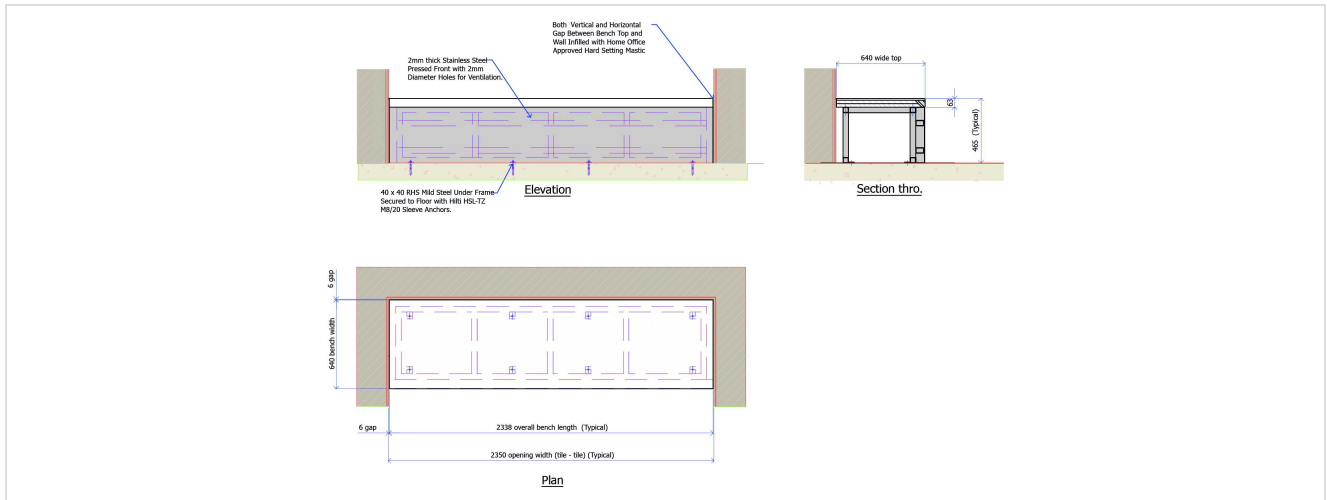
# Benches & beds

9F006

## Police Holding Cell Bench

# ASSA ABLOY

### Technical Design:



### Application:

A Chubb Locks Custodial Services Ltd bolt down to the floor steel bed with rounded safety edges and welded restraint loops for use in secure hospitals.

### Specification:

#### Construction

- 3mm thick Cold Rolled Steel Mattress Base Electro-Zinc Coated to BS EN 10152:2009
- Holes Punched into Mattress Base for Ventilation
- Mattress Base Strengthened with Steel Central Brace
- 50mm diameter x 3mm Hot Rolled Hollow Section Steel Tube Safety Edge Bed Frame to BS EN 10025:2004
- 76mm diameter x 3mm Hot Rolled Hollow Section Steel Tube Leg Posts to BS EN 10025:2004
- Welded Restraint Loops 2no. Each Side Of Bed Frame
- 6mm thick Flat Circular Steel Floor Fixing Plates to BS EN 10025:2004
- Fully Welded Joints & Ground Smooth
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Fixings Hilti HSL-TZ CSK M8/20 CSK Sleeve Anchors 3no. minimum per Leg

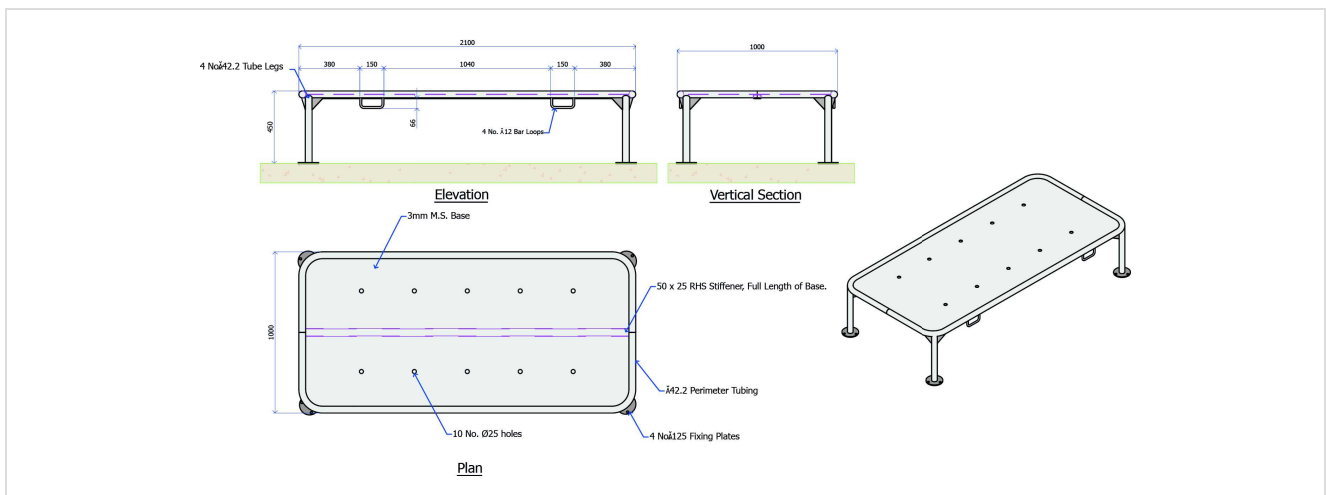
#### Standard Dimensions

- 1000mm Wide x 2100mm Long x 450mm High Overall

### Finish:

- Steel Frame Polyester Powder Coat Matt 30% Gloss Light Grey to BS EN 12206-1:2004

### Technical Design:



### Application:

A Chubb Locks Custodial Services Ltd steel cantilever prison cell bunk single.

### Specification:

#### Construction

- 3mm thick Pressed Cold Rolled Steel Mattress Base Electro-Zinc Coated to BS EN 10152:2009
- Folded Up Safety Edge to Hold Mattress In Place
- 5mm thick Flat Steel Cantilever Gusset Fixing Plates Each End to BS EN 10025:2004
- All Edges De-Burred for Safety
- Stitch Welded Joints
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Fixings Hilti HSL-TZ CSK M8/20 Sleeve Anchors 5no. minimum With Knock On Armour Rings To Prevent Tamper

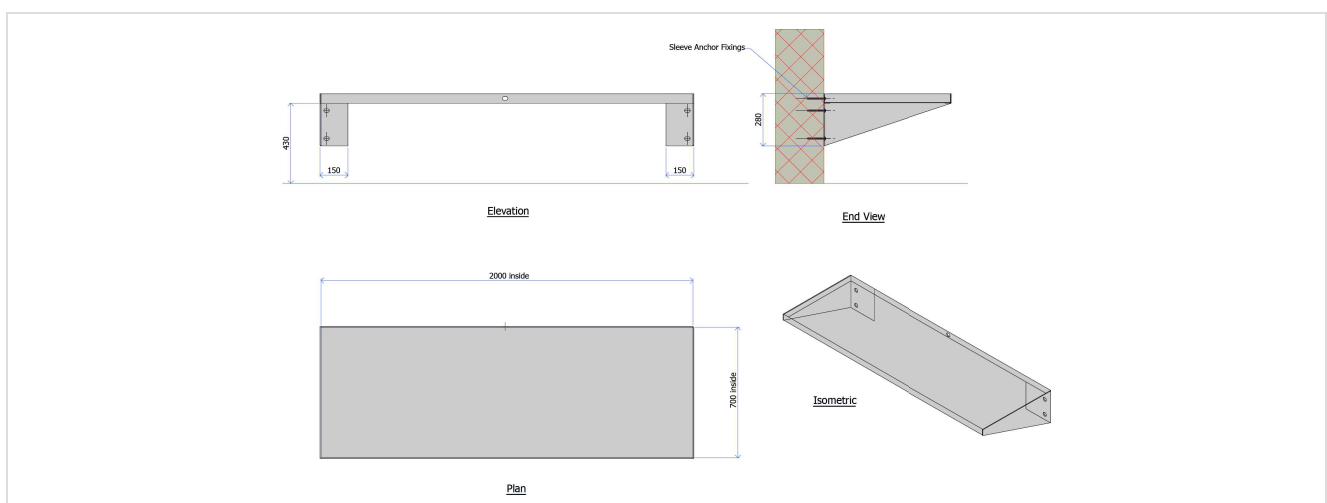
#### Standard Dimensions

- 700mm Wide x 2000mm Long Overall

### Finish:

- Polyester Powder Coat Matt 30% Gloss Light Grey to BS EN 12206-1:2004

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd steel cantilever prison cell bunk double with integral ladder.

#### Specification:

##### Construction

- 3mm thick Pressed Cold Rolled Steel Mattress Base Electro-Zinc Coated to BS EN 10152:2009
- Folded Up Safety Edge to Hold Mattress In Place
- 5mm thick Flat Steel Cantilever Gusset Fixing Plates Each End to BS EN 10025:2004
- Integral Ladder At Bottom End Of Bunks
- All Edges De-Burred for Safety
- Stitch Welded Joints
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Fixings Hilti HSL-TZ CSK M8/20 Sleeve Anchors 5no. minimum Per Bunk With Knock On Armour Rings To Prevent Tamper

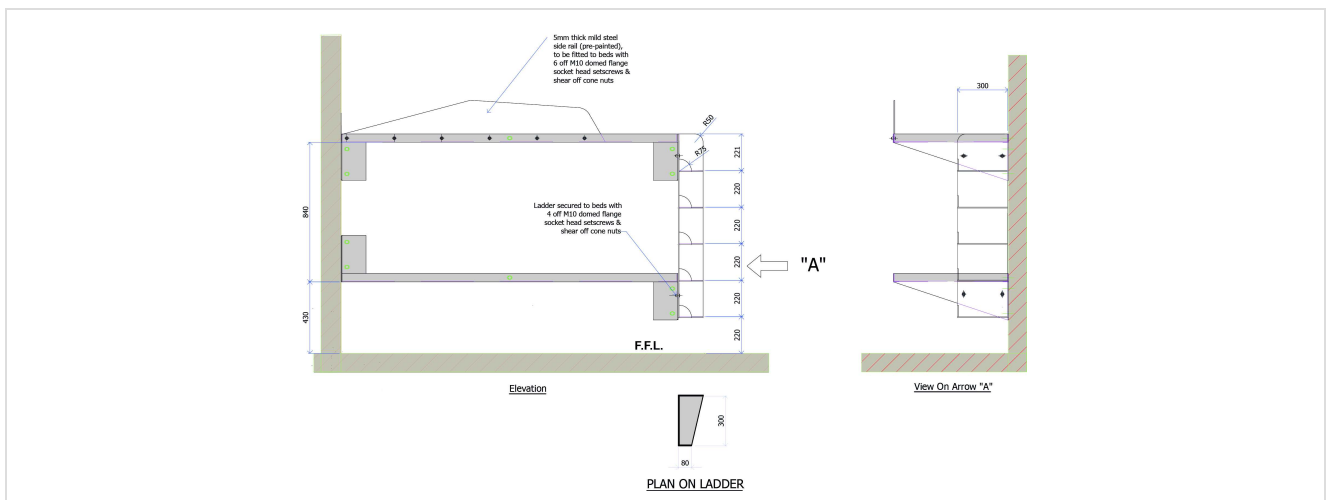
##### Standard Dimensions

- Each Bunk 700mm Wide x 2000mm Long Overall

#### Finish:

- Polyester Powder Coat Matt 30% Gloss Light Grey to BS EN 12206-1:2004

#### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd robust anti-vandal bench designed to be bolted down to the floor. Intended primarily for use in police charge areas but can be used in other areas where secure anti-vandal seating is required.

#### Specification:

##### Steel Frame

- 40x40x3mm Hot Formed Rolled Hollow Section Steel Frame to BS EN 10025:2004
- 6mm thick Steel Flat Floor Fixing Feet to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Fully Welded and Ground Smooth Joints
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Fixings Hilti HSL-TZ CSK M8/20 CSK Sleeve Anchors 6no. minimum per Bench

##### Bench Seat

- 125x45mm Ash Battens Clamped Together and PVA Bonded with Continuous Ash Tongues
- 25x12mm Continuous Hardwood Tongues
- European Ash Hardwood Kiln Dried Moisture Content 10 -14% Density 710kg/m<sup>3</sup>
- Counterbored & Pelleted M10x40 Setscrew Fixings at Every Batten/Steelwork Interface
- 13mm Radius To All Exposed Edges
- Belt Sanded 240 Grit Finish

##### Standard Dimensions

- 375 mm Wide x 475mm High x 2000mm Long

#### Finish:

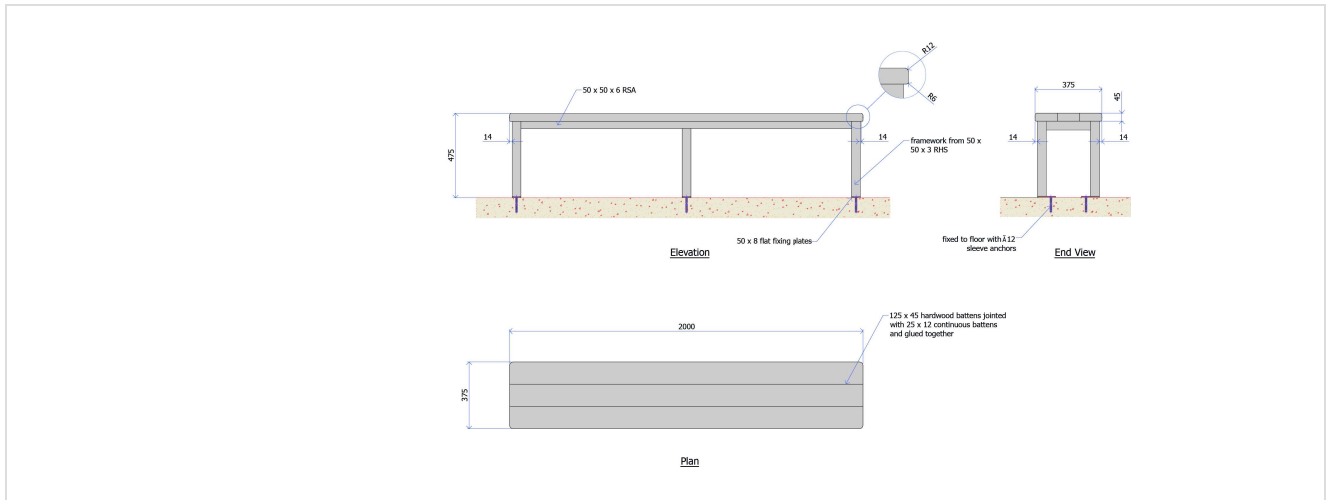
- Steel Frame Powder Coat Matt 30% Gloss Black to BS EN 12206-1:2004
- Hardwood Lacquer Two Pack Semi-Matt 20% Sheen

# Benches & beds

## 9F008F

### Timber Waiting Bench

## Technical Design:





### Interview Room Chair

#### Application:

A Chubb Locks Custodial Services Ltd robust anti-vandal chair designed to be bolted down to the floor intended primarily for use in police interview rooms but can be used in other areas where secure anti-vandal seating is required.

#### Specification:

##### Steel Frame

- 40x40x3mm Hot Formed Rolled Hollow Section Steel Frame to BS EN 10025:2004
- 6mm thick Steel Flat Floor Fixing Feet to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Fully Welded and Ground Smooth Joints
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Fixings Hilti HSL-TZ CSK M8/20 CSK Sleeve Anchors 4no. minimum per Chair

##### Chair Seat & Backrest

- 125x45mm Ash Battens Clamped Together and PVA Bonded with Continuous Ash Tongues
- 25x12mm Continuous Hardwood Tongues
- European Ash Hardwood Kiln Dried Moisture Content 10 -14% Density 710kg/m<sup>3</sup>
- Counterbored & Pelleted M10x40 Setscrew Fixings at Every Batten/Steelwork Interface
- 13mm Radius To All Exposed Edges
- Belt Sanded 240 Grit Finish

##### Standard Dimensions

- Seat 450mm Wide x 375mm Long x 475mm High, Backrest 450mm Wide x 250mm High, 900mm Overall Height

#### Finish:

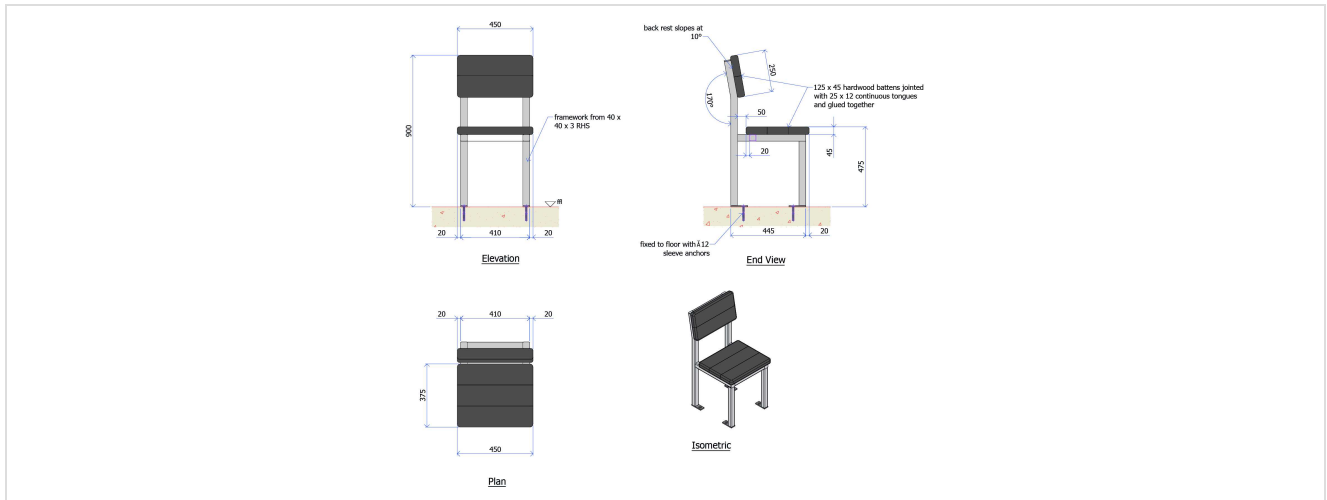
- Steel Frame Powder Coat Matt 30% Gloss Black to BS EN 12206-1:2004
- Hardwood Lacquer Two Pack Semi-Matt 20% Sheen



9F008A

## Interview Room Chair

### Technical Design:



#### Application:

A Chubb Locks Custodial Services Ltd robust anti-vandal stool designed to be bolted down to the floor. Intended for use in police interview rooms or closed visits rooms but can be used in other areas where secure anti-vandal seating is required.

#### Specification:

##### Steel Support Post

- 76mm diameter x 3mm Hot Rolled Hollow Section Steel Tube Support Post to BS EN 10025:2004
- 150mm diameter x 6mm thick Steel Flat Floor & Seat Fixing Plates to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Fully Continuously Welded Joints
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Fixings Hilti HSL-TZ CSK M8/20 CSK Sleeve Anchors 3no. minimum per Stool

##### Stool Seat

- 125x45mm Ash Battens Clamped Together and PVA Bonded with Continuous Ash Tongues
- 25x12mm Continuous Hardwood Tongues
- European Ash Hardwood Kiln Dried Moisture Content 10 -14% Density 710kg/m<sup>3</sup>
- Counterbored & Pelleted M10x40 Bolt Fixings 3no. per Seat
- 13mm Radius To All Exposed Edges
- Belt Sanded 240 Grit Finish

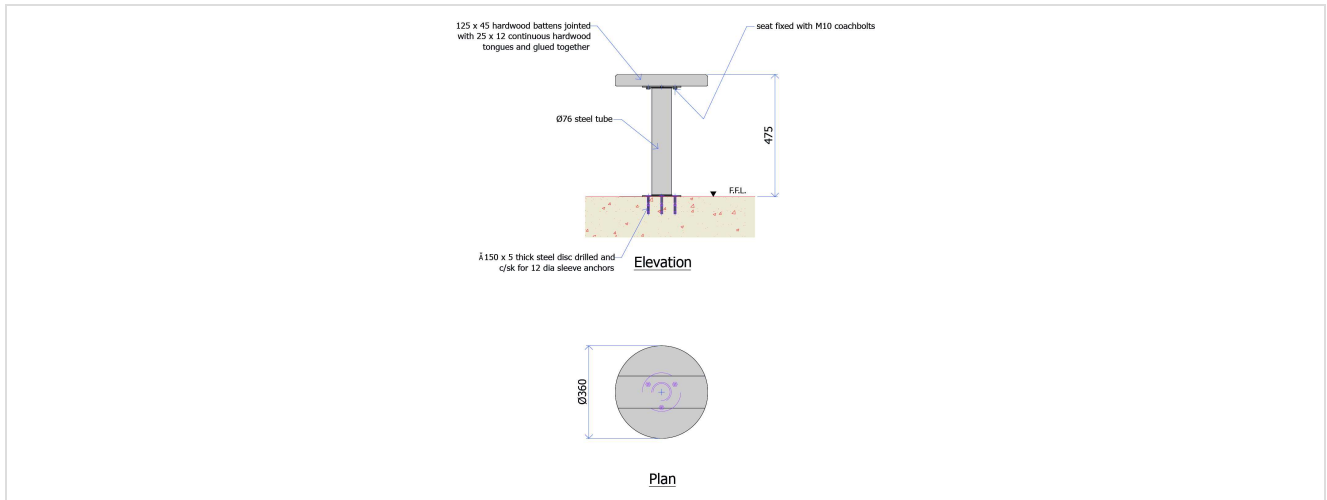
##### Standard Dimensions

- 360mm Diameter x 475mm High

#### Finish:

- Steel Support Post Powder Coat Matt 30% Gloss Black to BS EN 12206-1:2004
- Hardwood Lacquer Two Pack Semi-Matt 20% Sheen

### Technical Design:



### Interview Room Table

#### Application:

A Chubb Locks Custodial Services Ltd robust anti-vandal table designed to be bolted down to the floor. Intended for use in police interview rooms but can be used in other areas where secure anti-vandal tables are required.

#### Specification:

##### Steel Support Frame

- 50x50x6mm Rolled Steel Angle Framework to BS EN 10025:2004
- 6mm thick Steel Flat Floor Fixing Plates to BS EN 10025:2004
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Fully Continuously Welded Joints
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Floor Fixings Hilti HSL-TZ CSK M8/20 CSK Sleeve Anchors  
4no. minimum per Table

##### Table Top

- 44mm thick Solid Timber Core Mixed Tropical 3 Layer Lamels Hardwood Rails & Stiles Average Density 460 - 500kg/m<sup>3</sup>
- White Matt Formica Heat Pressure Bonded to Upper Side Only 45C @ 2500lbs/in<sup>2</sup> for 6 mins
- Lipping European Ash Hardwood Kiln Dried Moisture Content 10 -14% Density 710kg/m<sup>3</sup>
- 6.3mm dia x 38mm Tamperproof Security Screws Securing to Steel Support Frame
- Radius To All Exposed Edges

##### Standard Dimensions

- 750mm Wide x 1090mm Long x 750mm High

#### Finish:

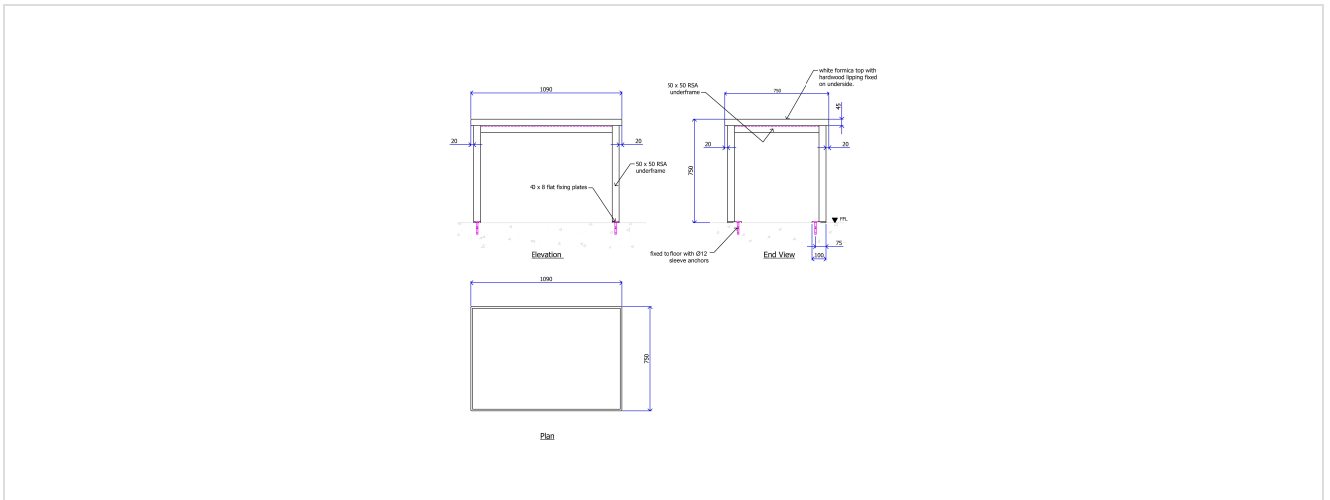
- Steel Support Frame Powder Coat Matt 30% Gloss Black to BS EN 12206-1:2004
- Hardwood Lipping Lacquer Two Pack Semi-Matt 20% Sheen



9F009

## Interview Room Table

### Technical Design:



**Miscellaneous equipment**

**ASSA ABLOY**

#### Application:

A Chubb Locks Custodial Services Ltd Home Office specification interview screen for closed visits in police custody. Incorporating a secure laminated glass screen with a steel counter sound box for communication. Conforms to the Police Buildings Custody Design Guide and National Police Estates Group Best Practice Document.

#### Specification:

##### Specifications, Performance Data & Tolerances

- Conforms to the Court Standards & Design Guide
- Conforms to the standards & specifications required by the Prison Service

##### Glazing Frame

- 65x50mm & 45x45mm Rolled Steel Angle Frames to BS EN 10025:2004
- Fully Welded Joints & Ground Smooth
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- 25mm Decorative Ash Hardwood Trim Securely Fixed to Perimeter of Steel Frame on Visitors Side
- European Ash Hardwood Kiln Dried Moisture Content 10 -14% Density 710kg/m<sup>3</sup>
- Wall & Head Fixings 5mm x 50mm diameter CSK Screw & Plugs 13no. minimum per Window

##### Sound Box

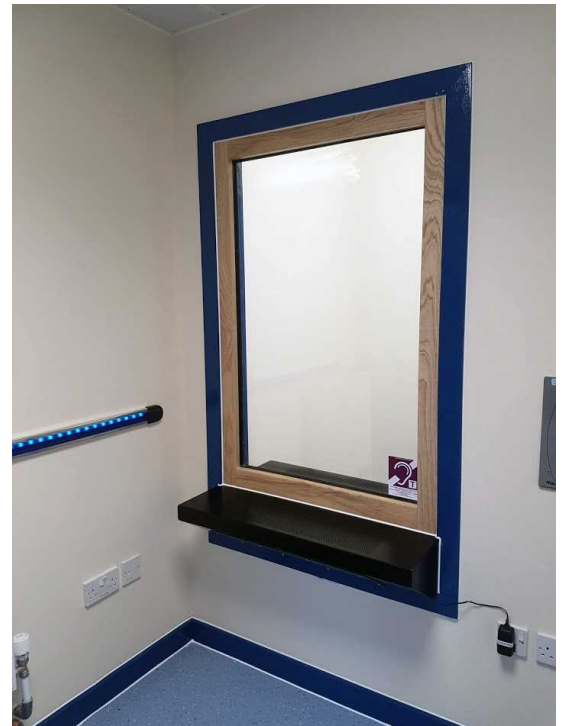
- 3mm thick Cold Rolled Pressed Steel Counter Both Sides Electro-Zinc Coated to BS EN 10152:2009
- 50x50x6mm Rolled Steel Angle Internal Reinforcing Frame to BS EN 10025:2004
- 2.0mm diameter MAX Perforations @ 4mm Staggered Pitch On Both Sides Counter Top
- 6mm thick Flat Steel Fixing Plates to BS EN 10025:2004
- Fully Welded Joints & Ground Smooth
- All Steelwork Shot Blasted to BS EN ISO 11124-4:1997
- Steel Fabrication to BS EN ISO 9001: 2000
- Welding to BS EN 1011-2: 2001
- Removable Access Plate One Side 3mm thick Steel Fixed by Security Head Screws
- Internal Flat Mesh Barrier Full Width of Sound Box Cavity to prevent the Passage of Contraband
- Fixings Hilti HSL-TZ CSK M8/20 CSK Sleeve Anchors 3no. minimum per Sound Box

##### Glazing

- 11.5mm thick Clear laminated Glass to BS EN 12600: 2002
- Glazing Gasket Cell Side 1.5mm Maximum and Double Sided Adhesive to Prevent Pick
- Glazing Gasket Outside 3mm Double Sided Adhesive Sponge Neoprene
- Glass Retaining steel Frame Secured with Security Head Screws

##### Standard Dimensions

- Structural Opening 900mm Wide x 1490mm High
- Overall Screen 888mm Wide x 1482mm High (1307mm



# Miscellaneous equipment

9F010

## Closed Visit Room Secure Screen

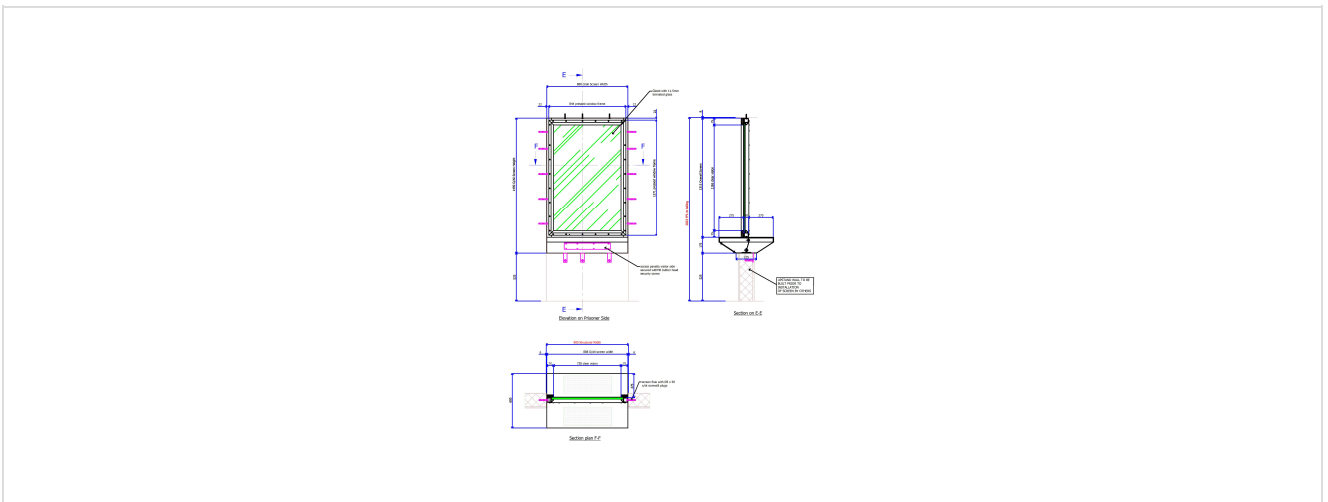
**ASSA ABLOY**

- Screen + 175mm Soundbox)
- Frame Clearances 6mm Jamb, 8mm Head, 0mm Bottom

### Finish:

- Hardwood Trim Lacquer Two Pack Semi-Matt 20% Sheen
- Steel Frame & Counter Sound Box Powder Coat Epoxy Primer to BS EN 12206-1:2004

### Technical Design:





# Miscellaneous equipment

## PSB100

### Personal Storage Box

**ASSA ABLOY**

#### Application:

##### Purpose

To provide a secure location for storing medicines within a custodial cell.

##### Overview

The PSB100 is a fabricated, powder coated steel storage box that is fitted with a pin tumbler cylinder mechanism to provide a means of locking the hinged door. The cylinder can be keyed alike with a privacy cylinder fitted to a CLCS 4L65P cell door lock if required.

##### Product Details

The storage box body is a seamlessly welded one piece construction manufactured from 4mm thick high grade CS4 mild steel sheet.

The internal door rebate (locking bar) is manufactured from 3mm angle iron that is welded into position to resist an attempt to force the door inwards.

The door is constructed from 3mm thick high grade CS4 mild steel sheet. The door is attached to the body with a continuous hinge welded into position.

Manufacturing tolerances limit the door to body gap to a maximum of 1mm in order resist force attacks by reducing access to the back of the door when it is closed.

Both the body and door can be finished with coloured powder coat paint to suit specified requirements.

The locking mechanism is operated by a modified Chubb 4L65P cylinder secured by an external bezel and locking collar in order to resist removal from the outside face. The cylinder operates a full height locking bar that secures the door to the angle iron fitted to the body.

The cylinder can be keyed alike with the cell door 4L65P privacy cylinder, both being operated via a key manufactured from a unique factory restricted key blank.

The cylinder can also be master keyed to enable staff to operate numerous storage boxes and / or privacy cylinders with one master key.

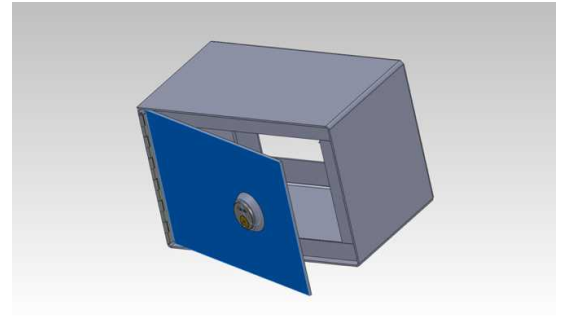
##### Standard Features

- Fabricated body manufactured from 4mm thick CS4 Mild Steel
- Door plate manufactured from 3mm thick CS4 Mild Steel
- Powder coated finish – standard RAL colours available
- Secured to a cell wall via 4 off M10 x 30mm wall fixings – supplied separately
- 4L65P Cylinder mechanism – compatible with equivalent cell door privacy locking
- Supplied as standard with 2 keys

#### Specification:

##### Dimensions and Weights

- **External Height** 148mm
- **External Width** 246mm
- **External Depth** 150mm
- **Internal Height** 140mm



#### Standards:

- Cylinder locking mechanism tested to BS EN1303:2005 for a minimum of 60,000 operations.
- Salt spray testing for corrosion resistance tested to EN1670:2007 for 96 hours.

## PSB100

### Personal Storage Box

- **Internal Width** 238mm
- **Internal Depth** 131mm
- **Weight incl Cylinder** (approx). 6.0KG

Note: It is recommended that an anti pick mastic sealant is used to fill any gaps between the storage box and the wall to which it is mounted.

# Handcuffs

**ASSA ABLOY**



#### Application:

##### Purpose

To securely restrain prisoners under escort.

##### Overview

The basic wrist locking unit consists of a steel shackle sliding in a cast aluminium body similar to an open shackle padlock. When fully extended, the shackle can be made to hinge back to provide access for the wrist. Locking is achieved by rotating the magazine of a conventional AVA mechanism which drives ball bearings into recesses in the shackles. The 1K52 comprises of two such units attached through chain links and a swivel link to provide flexibility of movement.

##### Principle of operation

Handcuff units are key retaining in the unlocked condition. In use, shackles are closed onto the wrist, the key turned (anti-clockwise) and removed. Release is the reverse of the above procedure.



#### Specification:

##### Standard features

- 9 or 10 slider AVA mechanism affording a very high number of differs and keys unique to this application viz The standard version has 9 sliders and a shorter than standard length bit; the special 'H' version has 10 sliders on a standard bit length, but with one thinned down wing – neither blank being available on the commercial market.  
NOTE: 'H' version is identified by step in the conical recess of the magazine cap.
- False notching and common internal profile on sliders to deter manipulative attack.
- Key retaining mechanism to ensure that handcuffs cannot be left unlocked with key removed
- Magazine retaining cap designed to be irremovable short of destroying the body.
- Deadlocking action and two-point locking on each shackle ensures that each product can withstand a minimum force of 5.0kN.
- Confusing key profile to deter attempts to sight-read the combination.
- 3 position shackles to accommodate a wide range of wrist sizes.
- Smooth finish and absence of sharp corners (particularly around wrist holes) to ensure that handcuffs do not cause injuries, even after long periods of restraint.
- Identification mark on key ('0' for 10 slider; '9' for 9 slider) which should face towards grubscrew in base when entering key to ensure correct alignment.  
NOTE: Key designed to enter one way round only.

##### Additional features

Three sizes off loose inserts (available as optional extras) to further reduce the opening for very small wrists.

Reductions in normal diameter as follows:-

- No. 1 - 19.0mm
- No. 2 - 14.5mm

- No. 3 - 10.0mm

#### Finish:

##### Materials & finishes

- **Shackle (castings), shackle ends and chain links** - Mild steel chrome plated
- **Swivel link** - Stainless Steel
- **Handcuff body** - Investment cast aluminium; anodised and spray painted Black
- **Magazine caps** - Mild steel, nickel plated
- **Magazine, sliders and keys** - Brass
- **Locking balls** - Phosphor bronze
- **Locking plunger** - Mild steel, zinc plated and passivated
- **Loose insert** - Investment cast aluminium, spray painted Black

# High Security Locking Range

High Security & Safety Group is the most innovative and trusted reality in access control solutions. In this section, you will be able to examine our high security locking systems (single point and multipoint locks as well as slide bar, panic escape claw and pedestrian gate locks for external environments) and related accessories, suitable for applications securing our key national infrastructure sites including power generation, water treatment, refineries and transport sectors. Securing high value assets and providing perimeter security.



# High Security Locks

**ASSA ABLOY**







# Surface Mounted Locks

HS110 & HS120

## Emergency/Panic Escape Locks

### Application:

The **HS210** is designed to provide a mortice mounted lock for emergency/panic exit doors that gives resistance to a greater physical attack threat to the outside of a door. It can provide **automatic deadlocking** with **automatic bolting**. You can choose either an internal lever handle, paddle handle or push bar to suit your operating requirements and to comply with the mandatory physical standards **BS EN 179** and **BS EN 1125**. European standards allow the HS210 to be fitted to fire doors.

The **HS220** lock has the same specification as the HS210 but incorporates a special feature to hold the bolts in their retracted position under the control of a key cylinder. This function is activated by simply turning the key towards the door edge when the bolts have been withdrawn and this will keep the bolts retracted until you reinsert the key and turn it in the opposite rotation.

Current standards **do not** allow the HS220 to be fitted to fire doors.



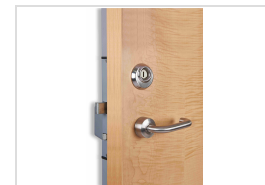
### Specification:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- 25mm bolt engagement, bolts automatically thrown when door closes
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Key controlled hold back facility operated externally or internally as applicable (HS220 only)
- Suitable for timber and steel doors
- Stainless steel forend and bolt guide plates
- Low current consumption (access control version only)

#### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Access Control Function: 12v DC, 24v DC
- Tall door kits available
- External key entry overrides automatic deadlocking
- High security cylinder guards
- Service and Support on Installation and Maintenance



### Standards:

- BS EN 179: 2008 Emergency Exit Devices (lever and paddle handle versions)
- BS EN 1125: 2008 Panic Exit Devices (push bar version)
- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles

# Surface Mounted Locks

## HS110 & HS120

## Emergency/Panic Escape Locks

### Variants:

Code	Description
L9132-310-O	HS110 Single Point Escape Lock - Left Hand
L9132-310-I	HS110 Single Point Escape Lock - Right Hand
L9132-313-I	HS110 Single Point Escape Lock - Monitored Version - Right Hand
L9132-313-O	HS110 Single Point Escape Lock - Monitored Version - Left Hand
L9132-317-I	HS110 Single Point Escape Lock - Access Control 12V - Right Hand
L9132-317-O	HS110 Single Point Escape Lock - Access Control 12V - Left Hand
L9232-310-I	HS110 Two Point Escape Lock Auto Bolting - Right Hand
L9232-310-O	HS110 Two Point Escape Lock Auto Bolting - Left Hand
L9232-313-I	HS110 Two Point Escape Lock Auto Bolting - Monitored Version - Right Hand
L9232-313-O	HS110 Two Point Escape Lock Auto Bolting - Monitored Version - Left Hand
L9232-317-I	HS110 Two Point Escape Lock Auto Bolting - Access Control 12V - Right Hand
L9232-317-O	HS110 Two Point Escape Lock Auto bolting - Access control 12V - Left Hand
L9760-300-I	HS110 Two Point Escape Lock Manual Bolting - Right Hand
L9760-300-O	HS110 Two Point Escape Lock Manual Bolting - Left Hand
L9760-303-I	HS110 Two Point Escape Lock Manual Bolting - Monitored Version - Right Hand
L9760-303-O	HS110 Two Point Escape Lock Manual Bolting - Monitored Version - Left Hand
L9332-310-I	HS110 Three Point Escape Lock - Right Hand
L9332-310-O	HS110 Three Point Escape Lock - Left Hand
L9332-313-I	HS110 Three Point Escape Lock - Monitored Version - Right Hand
L9332-313-O	HS110 Three Point Escape Lock - Monitored Version - Left Hand
L9332-317-I	HS110 Three Point Escape Lock - Access Control 12V - Right Hand
L9332-317-O	HS110 Three Point Escape Lock - Access Control 12V - Left Hand
L9134-310-I	HS120 Single Point Escape Lock - Right Hand
L9134-310-O	HS120 Single Point Escape Lock - Left Hand
L9134-313-I	HS120 Single Point Escape Lock - Monitored Version - Right Hand
L9134-313-O	HS120 Single Point Escape Lock - Monitored Version - Left Hand
L9134-317-I	HS120 Single Point Escape Lock - Access Control 12V - Right Hand
L9134-317-O	HS120 Single Point Escape Lock - Access Control 12V - Left Hand
L9234-310-I	HS120 Two Point Escape Lock - Right Hand
L9234-310-O	HS120 Two Point Escape Lock - Left Hand
L9234-313-I	HS120 Two Point Escape Lock - Monitored Version - Right Hand
L9234-313-O	HS120 Two Point Escape Lock - Monitored Version - Left Hand
L9234-317-I	HS120 Two Point Escape Lock - Access Control 12V - Right Hand
L9234-317-O	HS120 Two Point Escape Lock - Access Control 12V - Left Hand
L9334-310-I	HS120 Three Point Escape Lock - Right Hand
L9334-310-O	HS120 Three Point Escape Lock - Left Hand
L9334-313-I	HS120 Three Point Escape Lock - Monitored Version - Right Hand
L9334-313-O	HS120 Three Point Escape Lock - Monitored Version - Left Hand
L9334-317-I	HS120 Three Point Escape Lock - Access Control 12V - Right Hand
L9232-317-O	HS120 Three Point Escape Lock - Access Control 12V - Left Hand

# Surface Mounted Locks

HS130 & HS140

## Specialised Function Locks

**ASSA ABLOY**

### Application:

The **HS130** lock is designed to allow **manual key deadlocking** operation from the outside, if required, with a number of internal locking options to cater for different needs.

As standard, this lock has an **automatic bolting** function so the bolts engage when the door is closed allowing you to lock the door from either side manually.

The **HS140** lock has the same **manual key deadlocking** function as the HS130 but is provided with a **manual bolting** operation requiring physical operation of the lever to throw the bolts into an engaged position.

### Specification:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- Manual deadlocking function
- 25mm bolt engagement
  - HS130 - bolts automatically
  - HS140 - manual bolt operation
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Suitable for timber and steel doors
- Aesthetic Rod Covers

#### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Tall door kits available
- External key entry overrides automatic deadlocking
- Mechanical deadlock override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guards
- Service and Support on Installation and Maintenance



### Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



# Surface Mounted Locks

HS150 & HS160

## Specialised Function Locks

**ASSA ABLOY**

### Application:

The **HS150** is designed to allow **automatic bolting** when the door is engaged within the door frame and **automatic deadlocking** when bolts are thrown. Once deadlocked the antitrust mechanism engages preventing the bolts from being forced back.

The **HS160** is designed to allow **manual bolting** which is thrown by the selected furniture and **automatic deadlocking** when bolts are thrown. Once deadlocked the antitrust mechanism engages preventing the bolts from being forced back.

### Specification:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- Automatic deadlocking function
- 25mm bolt engagement  
HS150 - bolts automatically  
HS160 - manual bolt operation
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Suitable for timber and steel doors
- Aesthetic Rod Covers

#### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Tall door kits available
- External key entry overrides automatic deadlocking
- Mechanical deadlock override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guards
- Service and Support on Installation and Maintenance



### Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



# Surface Mounted Locks

# ASSA ABLOY

## HS170

### Lock for use with Access Control Systems

#### Application:

The **HS170** lock has been incorporated into the range to provide a lock for use with specialised access control requirements and is available in a number of configurations to meet most applications.

As standard the lock has an **automatic deadlocking** function with **automatic bolt throw**. The solenoid actuator is available with 12 or 24 volt DC operation and can be energised to lock (fail-safe if power supply is cut) or powered to unlock (fail-secure).

#### Specification:

##### Features:

- Available as a single, 2, 3, 4, 5 point locking
- Automatic deadlocking function
- 25mm bolt engagement, bolts automatically thrown when door closes
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Access control locking
- Suitable for timber and steel doors
- Low current consumption (access control version only)
- Aesthetic Rod Covers

##### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- 12 or 24v DC solenoid operation
- Available in fail-safe or fail-secure modes
- Tall door kits available
- External key entry overrides automatic deadlocking/access control
- Mechanical deadlock or access control override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guards
- Key controlled overlock to disable the access control
- Service and Support on Installation and Maintenance



#### Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



# Surface Mounted Locks

HS180

## Specialised Function Lock

**ASSA ABLOY**

### Application:

The **HS180** lock incorporates several functions within the one lock case. The lock can be operated from inside with either a push bar, paddle handle or lever handle with key override from outside. In addition to this you have the facility to either lock the bolts in their retracted position or, should you wish to do so, deadlock the bolts in their thrown position. The lock also features an override function from inside however please note when the double deadlock facility is engaged the override function is disabled. When either the double deadlocking or the hold-back features are engaged it is not possible for the solenoid unlocking device to override any of these functions.

**The user should be aware that this product does not conform to the mandatory standards BS EN 179 and 1125. We would strongly recommend that you consult with your local fire officer before installing this type of locking device.**



### Specification:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- 25mm bolt engagement, bolts automatically thrown when door closes
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Key controlled bolt holdback and deadlock facility
- External key entry facility
- High security cylinder guard
- Suitable for timber and steel doors
- Low current consumption (access control version only)
- Aesthetic Rod Covers

#### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Access Control Function: 12v DC, 24v DC
- Choice of lever handle, paddle handle or push bar internal operator
- Tall door kits available
- Service and Support on Installation and Maintenance

### Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



## Kaye

## Dual Solenoid Surface Mount High Security Multipoint Locking System

### Application:

The Dual Solenoid High security locking system has an access control module with full monitoring of bolts thrown and deadlock in place. Lever handles are on both sides and an optional external key facility to unlock the system when no power is available. Internal push pad or panic bar can be applied as an option but will not comply to BS EN Standards.

A second solenoid locking device is a fail-safe to over-lock the unit in a similar operation to the mechanical over-lock and holdback functions. Entry and exit are via access control signal which cuts power to the over-lock solenoid and powers up the solenoid to allow withdrawal of bolts. On closing the bolts auto throw to lock the system.

If the access control systems power fails entry can be gained by a key and handle from outside. On closing the door, the system auto-locks to provide security from outside. From inside the system becomes an escape system allowing the handle to withdraw the bolts and exit to take place.



### Finish:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- Automatic deadlocking function
- 25mm bolt engagement, bolts automatically
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Access control locking
- Suitable for timber and steel doors
- Low current consumption (access control version only)
- Aesthetic Rod Covers

#### Options:

- Mechanical Over-lock to secure the system out of hours, this would require a Key/Thumbturn operation to engage
- Bolt lock-back to provide a free swinging door
- Service and Support on Installation and Maintenance

### Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles







# Mortice Mounted Locks

HS210 & HS220

## Emergency/Panic Escape Locks

**ASSA ABLOY**  
Opening Solutions

### Application:

The **HS210** is designed to provide a mortice mounted lock for emergency/panic exit doors that gives resistance to a greater physical attack threat to the outside of a door. It can provide **automatic deadlocking** with **automatic bolting**. You can choose either an internal lever handle, paddle handle or push bar to suit your operating requirements and to comply with the mandatory physical standards **BS EN 179** and **BS EN 1125**. European standards allow the HS210 to be fitted to fire doors.

The **HS220** lock has the same specification as the HS210 but incorporates a special feature to hold the bolts in their retracted position under the control of a key cylinder. This function is activated by simply turning the key towards the door edge when the bolts have been withdrawn and this will keep the bolts retracted until you reinsert the key and turn it in the opposite rotation.

Current standards **do not** allow the HS220 to be fitted to fire doors.



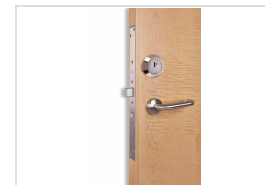
### Specification:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- 25mm bolt engagement, bolts automatically thrown when door closes
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Key controlled hold back facility operated externally or internally as applicable (HS220 only)
- Suitable for timber and steel doors
- Stainless steel forend and bolt guide plates
- Low current consumption (access control version only)

#### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Access Control Function: 12v DC, 24v DC
- Tall door kits available
- External key entry overrides automatic deadlocking
- High security cylinder guards
- Service and Support on Installation and Maintenance



### Standards:

- BS EN 179: 2008 Emergency Exit Devices (lever and paddle handle versions)
- BS EN 1125: 2008 Panic Exit Devices (push bar version)
- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles

# Mortice Mounted Locks

HS230 & HS240

## Specialised Function Locks

**ASSA ABLOY**

### Application:

The **HS230** lock is designed to allow **manual key deadlocking** operation from the outside, if required, with a number of internal locking options to cater for different needs.

As standard, this lock has an **automatic bolting function** so that the bolts engage when the door is closed allowing you to lock the door from either side manually.

The **HS240** lock has the same **manual key deadlocking** function as the HS230 but is provided with a **manual bolting operation** requiring physical operation of the lever to throw the bolt(s) into an engaged position.

### Specification:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- Manual deadlocking function
- 25mm bolt engagement
  - HS230 - bolts automatically
  - HS240 - manual bolt operation
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Suitable for timber and steel doors
- Stainless steel forend and bolt guide plates

#### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Tall door kits available
- External key entry overrides automatic deadlocking
- Mechanical deadlock override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guards
- Service and Support on Installation and Maintenance



### Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



# Mortice Mounted Locks

HS250 & HS260

## Specialised Function Locks

**ASSA ABLOY**

### Application:

The **HS250** is designed to allow **automatic bolting** when the door is engaged within the door frame and **automatic deadlocking** when bolts are thrown. Once deadlocked the antitrust mechanism engages preventing the bolts from being forced back.

The **HS260** is designed to allow **manual bolting** which is thrown by the selected furniture and **automatic deadlocking** when bolts are thrown. Once deadlocked the antitrust mechanism engages preventing the bolts from being forced back.

### Specification:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- Automatic deadlocking function
- 25mm bolt engagement
  - HS250 - bolts automatically
  - HS260 - manual bolt operation
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Stainless steel forend and bolt guide plates
- Suitable for timber and steel doors

#### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Tall door kits available
- External key entry overrides automatic deadlocking
- Mechanical deadlock override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guards
- Service and Support on Installation and Maintenance



### Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



# Mortice Mounted Locks

HS270

Lock for use with Access Control Systems

**ASSA ABLOY**

## Application:

The **HS270** lock is designed for use with **specialised access control** requirements and is available in a number of configurations to meet most applications. As standard the lock has an **automatic deadlocking function** with **automatic bolt throw**. The solenoid actuator is available with 12 or 24 volt DC operation and can be energised to lock (fail-safe if power supply is cut) or powered to unlock (fail-secure).

## Specification:

### Features:

- Available as a single, 2, 3, 4, 5 point locking
- Automatic deadlocking function
- 25mm bolt engagement, bolts automatically thrown when door closes
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Access control locking
- Stainless steel forend and bolt guide plates
- Low current consumption (access control version only)
- Suitable for timber and steel doors

### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- 12, 24 or SOv DC solenoid operation
- Available in fail-safe or fail-secure modes
- Tall door kits available
- External key entry overrides automatic deadlocking/access control
- Mechanical deadlock or access control override via internal thumbturn with or without breakdome or internal key cylinder
- High security cylinder guards
- Service and Support on Installation and Maintenance



## Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles

# Mortice Mounted Locks

HS280

## Specialised Function Lock

**ASSA ABLOY**

### Application:

The **HS280** lock incorporates several functions within the one lock case. The lock can be operated from inside with either a push bar, paddle handle or lever handle with key override from outside. There is also a facility to lock the bolts when retracted or deadlock the bolts in their thrown position. The override function is disabled when the double deadlock is engaged. It is not possible for the solenoid unlocking device to override the double deadlocking or hold-back features if they are engaged.

**This product does not conform to the mandatory standards BS EN 179 and 1125. You should consult your local fire officer before installing this type of locking device.**

### Specification:

#### Features:

- Available as a single, 2, 3, 4, 5 point locking
- 25mm bolt engagement, bolts automatically thrown when door closes
- Anti-thrust device to prevent any of the bolts from being forced back allowing unauthorised access
- Key controlled bolt holdback and deadlock facility
- External key entry facility
- High security cylinder guard
- Stainless steel forend and bolt guide plates
- Suitable for timber and steel doors
- Low current consumption (access control version only)

#### Options:

- Bolt Position Monitoring
- Lock Position Monitoring
- Key Position Monitoring
- Access Control Function: 12v DC, 24v DC
- Choice of lever handle, paddle handle or push bar internal operator
- Tall door kits available
- Service and Support on Installation and Maintenance



### Standards:

- CE Marked
- British Government Tested
- Fire tested to BS EN 1634-1
- Independently cycle tested to in excess of 1,000,000 cycles



# **Locks for External Environments ASSA ABLOY**

L8789

## High Security External Access Control Lock

### Application:

Developed in co-operation with UK Government departments, for use in external environments, this Access Control lock has unique functionality and control features coupled with a robust and reliable heavy duty deadlocking mechanism ideal for high security applications.

This mortice lock can be installed in any security door (steel or wood). The lock case accepts all standard Euro-profile cylinders and can be supplied with a high security cylinder guard to protect the cylinder from external attack.

Connection to in-house access control systems is quick and easy as the lock is fitted with a standard CAT 5 socket for power and signal supply.

Key blocking via an access control system allows for remote/central control operation to prevent mechanical key override of the system in the event of the key being compromised, the area requiring to be locked down or for any other reason. This would also prevent egress where a thumbturn is fitted to the inside of the door for exit purposes.



### Specification:

#### Features:

- Heavy duty lock case machined from solid
- Case hardened steel bolt and ram
- Bolt held back when retracted
- Lock automatically deadlocks on door closure
- Stainless steel strike plate and lock forend
- Cable connector CAT 5 point for easy access control interface
- Easy to install and maintain
- Adjustable keep
- Weather and corrosion resistant

#### Functions:

##### Mechanical

- Handle operation withdraws deadbolt
- Deadbolt remains retracted with door in open position
- Deadbolt auto throws and locks on closing door
- Key/thumbturn operation to unlock

##### Electrical

- Access control signal to unlock
- Remote blocking of mechanical key/thumbturn operation
- Monitoring
  - Bolt throw (bolt position)
  - Deadlock (deadlock activation)
  - Key used
  - Key blocked (status)

#### Options:

# Locks for External Environments

L8789

## High Security External Access Control Lock

**ASSA ABLOY**

- Service and Support on Installation and Maintenance

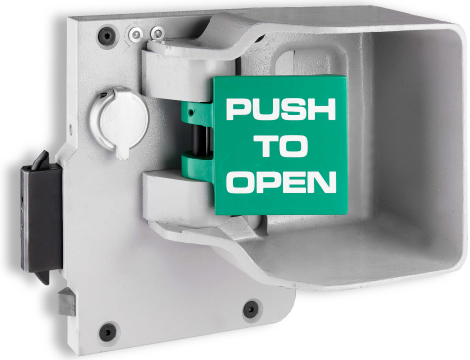


### Application:

The Kaye High Security (Claw) Gate Lock is a heavy duty, weather resistant lock fitted with a push-pad operation. The lock, which throws the bolt and automatically deadlocks on closure, is suitable for external perimeter gates and high security applications.

It has a robust and solid construction designed to resist moisture. The lock is supplied with a 10mm or 20mm solid steel back-plate which is drilled and tapped ready to accept the lock fixing screws.

The emergency push pad is protected by a purpose-built metal shroud as an obstacle to mitigate manipulation from the outside. The product has undergone an extensive text program inside of the door for exit purposes.



### Specification:

#### Features:

- Push-pad (shielded) action to withdraw bolt
- Close gate to automatically deadlock
- Powerful claw engages with strike on locking
- Adjustable striking plate
- High visibility LED indicators
  - Status Red – unsecured: gate open / bolt not thrown
  - Status White – secured / bolt thrown
- Optional 'lock down' facility
- 'Lock down' status signal
- Easy to install and maintain

#### Options:

- Key Position Monitoring
- Service and Support on Installation and Maintenance

### Standards:

- Independently attack audited
- 100,000 function slams in accordance with EN12209:2003
- 10,000 isolation key cycles in accordance with EN12209:2003
- Various other EN12209:2003 tests carried out - details available on request



L8715 / L8717

## High Security Slide Bar Lock

### Application:

The Kaye High Security Slide Bar Gate Lock is a heavy duty, weather resistant lock fitted with a slide bar operation that automatically deadlocks on closure.

It was developed to secure perimeter fencing at high security installations which need to restrict and control access such as chemical and power plants, gas terminals and oil refineries. The Kaye slide Bar Gate lock is fitted in a 6mm thick steel casing suitable for a variety of gate standards.

Subjected to an extensive test program, including 100,000 key and electronic operations, the lock is easily interfaced with existing access control systems for remote operation and includes a five-second automatic reset as standard.



### Specification:

#### Features:

- Slide for automatic 'lock down' on closure
- Robust solid steel bar with padlock slot
- Handle shears under undue force
- Free issue anti-drill cylinder profile options
- 'Lock down' status signal
- 'Last person' out alert
- Local plug connection interface
- Easy to install and maintain

#### Options:

- Mechanical option available
- Lock available direct from Pickersgill-Kaye
- Cassette, handles and housing available from Crime and Fire Defence Ltd
- Key Position Monitoring
- Service and Support on Installation and Maintenance

### Standards:

- Independently attack audited
- 100,000 operations by key in accordance with EN12209:2003
- 100,000 operations by electronic activation in accordance with EN12209:2003
- 96 hour salt spray corrosion test at 100% humidity



### Variants:

Code	Description
L8715 - RH	Slide Bar Lock
L8717 - LH	Slide Bar Lock



# **Cylinders, Cylinder Guards and Accessories**

**ASSA ABLOY**

# Cylinders, Cylinder Guards and Accessories

For HS100 & HS200 Series Mounted Locks

# ASSA ABLOY





# Slide Bolt

HS9080

## Slide Bolt

ASSA ABLOY

### Application:

To secure the passive leaf of a double door we have designed a slide bolt that will provide strength and stability against physical attack but visually match the aluminium cover of the main lock module to give a more pleasing appearance. The bolts are available as separate units operated at the top or bottom of the door. The bolts are simply pushed up or down to secure the door using the specially designed shaped handles. When thrown or retracted the bolts are held in position by a positive detent mechanism.

### Specification:

#### Features:

- Architecturally pleasing security device to match locking products
- Hardened Steel Bolt
- 32mm Bolt Engagement
- Bolt Diameter: 16mm

The slide bolt has been successfully included in a door system fire tested to BS 476 Pt 22 and further assessed to cover products related to approved Document B.

#### Options:

- Standard
- Extended
- Lockable Standard
- Lockable Extended
- Monitored Standard
- Monitored Extended



### Variants:

Code	Description
L9081-900-S	Top Left Standard Version
L9088-901-S	Top Left Extended Version
L9082-900-S	Top Right Standard Version
L9088-801-S	Top Right Extended Version
L9082-900-S	Bottom Left Standard Version
L9088-801-S	Bottom Left Extended Version
L9081-900-S	Bottom Right Standard Version
L9088-901-S	Bottom Right Extended Version





# Furniture

L8891-928-B

Cranked Handle

# ASSA ABLOY



**Furniture**  
**L8891-921-B**  
**Straight Handle**

**ASSA ABLOY**



# Furniture

L9025-901-S

Thumbturn Handle

# ASSA ABLOY

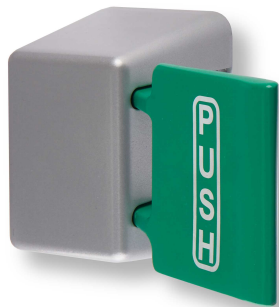


# Furniture

L9050 & L9051

Push Pad

# ASSA ABLOY



## Variants:

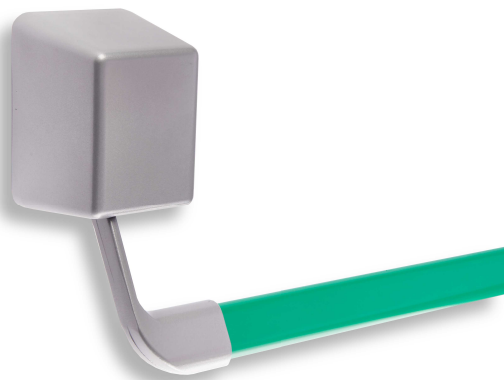
Code	Description
LH - L9050-901-S	Left Hand Push Pad
RH - L9051-901-S	Right Hand Push Pad

# Furniture

L9000 & L9001

Push Bar

# ASSA ABLOY



## Variants:

Code	Description
LH - L9000-901-S	Left Hand Push Bar
RH - L9001-901-S	Right Hand Push Bar

# Furniture

L9000-060-F

Anti-Phishing Shroud

# ASSA ABLOY



# Furniture

L9028-901-S

Ancillary Green Dome

# ASSA ABLOY



# Furniture

L8655-705-A

Link Rod Spring Kit

# ASSA ABLOY





# Furniture

L9011-902

Top Keep with Cover

# ASSA ABLOY



# Furniture

L9011-913

Top Keep with Cover (Inward Opening)

# ASSA ABLOY



# Furniture

L9011-006

Top Keep (Outward Opening)

# ASSA ABLOY



# Furniture

L9010-908

Floor Keep (Sprung)

# ASSA ABLOY



# Furniture

L8655-038

Floor Keep Plate

# ASSA ABLOY



# Furniture

## L8655-099 & L8655-083 Frame Keep (Rebate)

**ASSA ABLOY**



### Variants:

Code	Description
L8655-099	Frame Keep (12mm rebate)
L8655-083	Frame Keep (25mm rebate)

# Furniture

## L8655-181 & L8655-081 Centre Keep (Rebate)

**ASSA ABLOY**



### Variants:

Code	Description
L8655-181	Centre Keep (12mm rebate)
L8655-081	Centre Keep (25mm rebate)

# Furniture

L9011-901

Centre Keep (1st and 3st lock)

# ASSA ABLOY





# Furniture

L9011-005

Centre Keep (Inward Opening)

# ASSA ABLOY



# Furniture

L9011-008

Centre Keep (Outward Opening)

# ASSA ABLOY



# Furniture

L9012-901

## Outward Opening Adjustable Base Plate

**ASSA ABLOY**



# Furniture

L9012-902 & L9012-903

## Adjustable Strike Plate

**ASSA ABLOY**



### Variants:

Code	Description
L9012-902	Adjustable Strike Plate (48-65mm door)
L9012-903	Adjustable Strike Plate (63-80mm door)

# Furniture

L9010-011 & L9010-012

## Mortice Adjustable Strike Plate

**ASSA ABLOY**



### Variants:

Code	Description
L9010-011	Mortice Adjustable Strike Plate (48-68 mm door)
L9010-012	Mortice Adjustable Strike Plate (68-90 mm door)

# Furniture

L9010-010

Mortice Adjustable Strike Base Plate

# ASSA ABLOY

