

TS73V EN 2-4 RACK AND PINION DOOR CLOSER

This document contains Third Party Certification and Information for the dormakaba TS73V, TS73V BCDC and TS73EMF Door Closers to demonstrate compliance with the United Kingdom Building Regulations and Construction Product Regulations 1991.

Contents

1. Declaration of Performance

The TS73V is CE marked to BS EN1154

2. Certifire Certificate CF117

The TS73V is Certifire Approved as per enclosed Certificate and is suitable for the following applications:-

- a) Timber doors of up to 2 hours fire resistance when installed on the door on the pull side (standard application) on the door push side (parallel arm) or on the frame on the push side (transom mounting).
- b) Steel doors of up to 4 hours fire resistance when installed on the door on the pull side (standard application) on the door push side (parallel arm) or on the frame on the push side (transom mounting).
- 3. Torque Curve to demonstrate compliance with requirements of ADM and BS8300 The TS73V when fitted to size EN3 (Minimum size for a fire door) will exert and opening force of 30N or less between 0 and 30 degrees and 22.5N or less between 30 and 60 degrees of opening when applied to doors 792mm wide or above.

Technical Specification

dormakaba TS73V EN2-4 Rack and Pinion Door Closer with adjustable power, adjustable 'thinking backcheck, adjustable closing speed in two independent ranges, closing force infinitely variable between EN2-4, Non Handed, CE Marked to BS EN1154 and Certifire Certificated CF117.



Once the TS73V Door Closer has been fitted and adjusted accordingly this document can be passed to Building Control to demonstrate compliance with UK Building Regulations and to the 'responsible person' of the Building owner/occupier for use in respect of RR(FS)O requirement

LEISTUNGSERKLÄRUNG DECLARATION OF PERFORMANCE



DOP_0004

EN EU Nr. 305/2011 Declaration of Performance

Unique identification code of the product-type: Controlled door closing devices DORMA TS 73 V EN 2-4

- Intended use/es: On fire and smoke compartmentation doors to fulfil the self closing requirements of such doors.
- Manufacturer: dormakaba Deutschland GmbH DORMA Platz 1 58256 Ennepetal
- System/s of assessment and verification of constancy of performance (AVCP): System 1
- Harmonised standard: EN 1154: 1996/A1: 2002/AC: 2006
- Notified body/ies: MPA NRW 0432
- Declared performance/s:

Essential characteristic	Performance	Harmonised technical specification
Self-closing	 Closing doors from >= 180° open grade 4 Door closer power size EN 2-4 Suitability for fire/smoke door use grade1 Safety grade 1 Temperature dependence +40°C and -15°C: >=3s <=25s Latch control Back check Adjustable closing force 	EN 1154: 1996/A1: 2002/AC: 2006
Durability of self-closing	 Durability 500000 cycles grade 8 Very high corrosion resistance grade 4 	
Dangerous substances	Substances of very high concern < threshold values	

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

flichen fleund

Ennepetal 03.11.2016

Michael Hensel

Senior Vice President Access Solutions DACH

CERTIFICATE OF APPROVAL No CF 117

This is to certify that, in accordance with TS00 General Requirements for Certification of Fire Protection Products
The undermentioned products of

DORMA UK LTD

Wilbury Way, Hitchin, Hertfordshire SG4 0AB Tel: 01462 477600 Fax: 01462 477601

Have been assessed against the requirements of the Technical Schedule(s) denoted below and are approved for use subject to the conditions appended hereto:

CERTIFIED PRODUCT
TS73V, TS73V BCDC and TS73EMF

TECHNICAL SCHEDULE
TS 34 - The Contribution Of
Controlled Door Closing
Devices And Accessories To
Fire Resisting Doorsets

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan

Certification Manager



Issued: 3rd February 1992 Revised: 13th March 2019 Valid to: 2nd February 2022

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CERTIFICATE No CF 117 DORMA UK LTD

DORMA TS73V, TS73V BCDC and TS73EMF OVERHEAD DOOR CLOSERS

 TS73V, TS73V BCDC units are adjustable strength rack and pinion overhead door closer, the TS73EMF is a rack and pinion overhead door closer available in fixed sizes EN4, EN5 and EN6. This approval relates to the following overhead mounted door closing devices and configurations:

		Link-arms			Slide	arms	
	Projecting arm (Fig. 1) Body door mounted on pull face	Projecting arm (Fig. 61) Body transom mounted on push face	Parallel arm (Fig. 6) Body door mounted on push face	Body door mounted on pull face	Body transom mounted on push face	Body door mounted on push face	Body transom mounted on pull face
TS73V	1	1	1	x	JE .	JC JC	æ
TS73V BCDC	/	1	1	×	x	x	*
TS73EMF EN4	1	1	×	ж	×	3¢	×
TS73EMF EN5	1	1	×	×	×	x	×
TS73EMF EN6	1	1	×	x	x	×	×

Key: ✓ - approved

Not approved

Note: Where alternative arms for non-fire applications are included within the packaging, the use of these components on fire resisting door assemblies will invalidate the certification.

2. This approval relates to their use with the following door assemblies:-

Latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames having a fire resistance up to 120 minutes (Code ITT).

Latched and unlatched, door assemblies consisting of metal faced and edged leaves in metal frames, <u>fully-insulated</u> for the required classification period, with or without intumescent sealing, and having a fire resistance up to 240 minutes (Codes MM & IMM)

Latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in <u>fully-insulated</u> steel frames having a fire resistance up to 120 minutes (Code ITM)

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CERTIFICATE No CF 117 DORMA UK LTD

DORMA TS73V, TS73V BCDC and TS73EMF OVERHEAD DOOR CLOSERS

- This certification is provided to the client for their own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
- 4. The closers are approved on the basis of:
 - i) Initial type testing to EN1154 and BS EN 1634-1
 - ii) An appraisal against TS34
 - iii) Inspection of quality management system
 - iv) Inspection and surveillance of factory production control
 - v) Ongoing audit testing in accordance with EN 1154 requirements
- 5. The closers shall be fixed with screws supplied by the closer manufacturer. Bolt-through fixings shall not be used.
- 6. Where the closers are fitted to door leaves or frames that are manufactured from mineral composite-based materials, or low-density cellulosic- based material, the door assembly shall have previously been shown capable of accommodating the installation of closers at the head of the doorset, without detriment to the door assembly's performance.
- 7. This approval is applicable only to the specified closers when mounted in the applications stated above and under the classification codes section of this certificate and used with door assemblies of proven fire resistance (as defined in BS EN 1634-1 or BS 476: Part 22: 1987) and having power ratings appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154).
- 8. The approval relates to on-going production. Product and/or its immediate packaging is identified with the manufacturer's name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.

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DORMA TS73V, TS73V BCDC and TS73EMF OVERHEAD DOOR CLOSERS

9. The following tables show acceptable doorsets types and fire resistance periods:

		Аррі	roved Door	Туре	
Class	MM	IMM	ITT	ITM	ITC
FD20	√ *	√ *	✓	√ *	✓
FD30	√ *	√ *	✓	√ *	✓
FD60	√ *	√ *	✓	√ *	✓
FD120	√ *	√ *	✓	√ *	✓
FD240	√ *	√ *	×	×	×
E 20	×	×	✓	√ *	✓
EI 20	√ *	√ *	✓	√ *	✓
E 30	×	×	✓	√ *	✓
EI 30	√ *	√ *	✓	√ *	✓
E 60	×	×	✓	√ *	✓
EI 60	√ *	√ *	✓	√ *	✓
E 90	×	×	✓	√ *	✓
EI 90	√ *	√ *	✓	√ *	✓
E 120	×	×	V	√ *	✓
EI 120	√ *	√ *	✓	√ *	✓
E 240	×	×	×	×	×
EI 240	√ *	√ *	×	×	×

Kev:

✓ - approved

Not approved

Fully-insulated steel-based doors and frames only

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CERTIFICATE No CF 117 DORMA UK LTD

DORMA TS73V, TS73V BCDC and TS73EMF OVERHEAD DOOR CLOSERS

10. Doors are classified as the following types:

Type MM - 20 minute to 240 minute doorsets that consist of metallic leaves in metallic frames that do not contain intumescent materials in the frame to leaf gap.

Type IMM - 20 minute to 240 minute doorsets that consist of metallic leaves in metallic frames that contain intumescent materials in the frame to leaf gap.

Type ITT - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in timber frames

Type ITM - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in metal frames.

Type ITC - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in proprietary composite frames, of which the principal material is other than timber or metal but which may include any other materials.

Scope of Approval:

- Doors may not include uninsulated glass above 20% of their total area.
- The closer may not be fitted to timber doorsets without intumescent protection.
- Closers are only approved for use with steel-based doors and frames that are fully-insulated for the required classification period.
- Mechanical Hold open option is not approved

Classification Codes

4	8	4 3	1	1	4	
373V BC):	DC when	mounted	l in projec	ting arm	(Figure 1) and transom mount (Fig.
1 101						7
4	8	3	1	1	3	
4 573V whe	8 en mounte		1 lel arm (Fi	1 gure 6):	3	

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Classification Codes - Cont'd

TS73V BCDC when mounted in parallel arm (Figure 6):

4 8 3 1 1 3

TS73EMF EN4 when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

4 8 4 1 1 4

TS73EMF EN5 when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

4 8 5 1 1 4

TS73EMF EN6 when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

4 8 6 1 1 4

Further Information

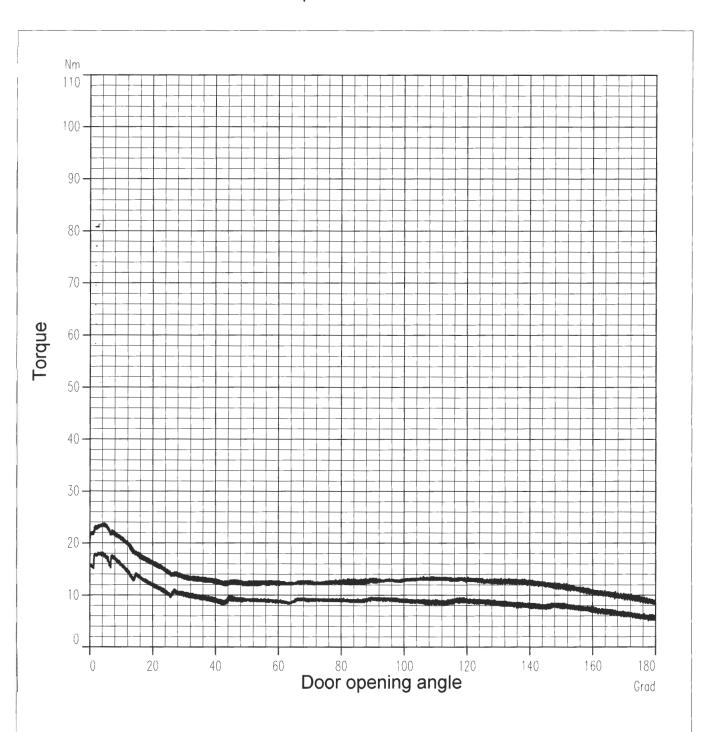
Further information regarding the details contained in this data sheet may be obtained from Dorma UK Limited (Tel: 01426 477600).

Further information regarding CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777).

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Torque curve



Controlled door closing device EN 1154

Manufacturer: DORMA Model: TS 73V EN 2-4

Sample: B 1

size: 3

5000 Cycles

Standard installation

23 10. 2006



