TS72V AND TS72V BC EN 2-4 RACK AND PINION DOOR CLOSER

This document contains Third Party Certification and Information for the dormakaba TS72V and TS72V BC Door Closer to demonstrate compliance with the United Kingdom Building Regulations and Construction Product Regulations 1991.

Contents

1. **Declaration of Performance**
   The TS72V and TS72V BC are CE marked to BS EN1154

2. **Certifire Certificate CF268**
   The TS72V and TS72V BC are 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 TS72V and TS72V BC 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 833mm wide or above.

Technical Specification

dormakaba TS72V/TS72V BC EN2-4 Rack and Pinion Door Closer with adjustable power, adjustable ‘thinking backcheck (TS72V BC only), adjustable closing speed in two independent ranges, closing force infinitely variable between EN2-4, Non Handed, CE Marked to BS EN1154 and Certifire Certificated CF268.

Once the TS72V or TS72V BC 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 requirements.

LEISTUNGSERKLÄRUNG
DECLARATION OF PERFORMANCE

DOP_0010

EN EU Nr. 305/2011 Declaration of Performance

- Unique identification code of the product-type: Controlled door closing devices
  DORMA TS 72 EN 2-4, DORMA TS 72 EN 2-4 BCA
- 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 (TS 72 EN 2-4 BCA) ▪ Adjustable closing force	EN 1154: 1996/A1: 2002/AC: 2006
Durability of self-closing	▪ Durability 500000 cycles grade 8 ▪ Moderate corrosion resistance grade 2	
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:

Ennepetal 04.11.2016

Michael Hensel

Senior Vice President
Access Solutions DACH

CERTIFICATE OF APPROVAL
No CF 268

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

DORMA UK LIMITED

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

TS71, TS72V & TS72VBC Overhead Door Closers

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 Exova (UK) Limited trading as Warrington Certification

Paul Duggan
Certification Manager

Issued: 11th December 2001
Reissued: 20th August 2018
Valid to: 2nd February 2022

CERTIFICATE No CF 268
DORMA UK LIMITED

TS71, TS72V & TS72VBC OVERHEAD DOOR CLOSERS

1. The Dorma UK Limited TS71, TS72V and TS72VBC are a range of adjustable power surface mounted overhead door closers. 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
TS71	✓	✓	✓	✗	✗	✗	✗
TS72V	✓	✓	✓	✗	✗	✗	✗
TS72VBC	✓	✓	✓	✗	✗	✗	✗

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, fully-insulated 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, door assemblies consisting of metal faced and edged leaves in metal frames, uninsulated for the required classification period, with or without intumescent sealing, and having a fire resistance up to 240 minutes (Codes MM & IMM) *with closers fitted to the fire risk face only

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

The closer must not be used in this application where a specific direction of fire exposure for the doorset cannot be identified

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CERTIFICATE No CF 268
DORMA UK LIMITED

TS71, TS72V & TS72VBC OVERHEAD DOOR CLOSERS

3. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), the Technical Handbooks (Scotland) and Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.

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.

Issued: 11th December 2001
Revised: 20th August 2018
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CERTIFICATE No CF 268
DORMA UK LIMITED

TS71, TS72V & TS72VBC OVERHEAD DOOR CLOSERS

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

	Approved Door Type				
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	✓#	✓#	✓	✓*	✓
EI 120	✓*	✓*	✓	✓*	✓
E 240	✓#	✓#	✗	✗	✗
EI 240	✓*	✓*	✗	✗	✗

Key:

✓ - approved

✗ - Not approved

✓* - Fully-insulated steel-based doors and frames only

✓# - Fitted to the fire risk face only of Uninsulated steel-based doors and frames only

✓*# - Fitted to Fully-insulated steel-based doors and frames, or the fire risk face only of Uninsulated steel-based doors and frames

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CERTIFICATE No CF 268
DORMA UK LIMITED

TS71, TS72V & TS72VBC 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 approved for use on both sides of steel-based doors and frames that are fully-insulated for the required classification period.
- For uninsulated steel-based doors and frames the closers shall be fitted to the fire risk face only. **The closer must not be used in this application where a specific direction of fire exposure for the doorset cannot be identified**
- Mechanical Hold open option is not approved.

Classification code

The approval provides the following classifications:

Dorma TS71, TS72V and TS72VBC when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

4	8	4 3	1	1	2

Dorma TS71, TS72V and TS72VBC when mounted in parallel arm (Figure 6):

4	8	3	1	1	2

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DORMA UK LIMITED

TS71, TS72V & TS72VBC OVERHEAD DOOR CLOSERS

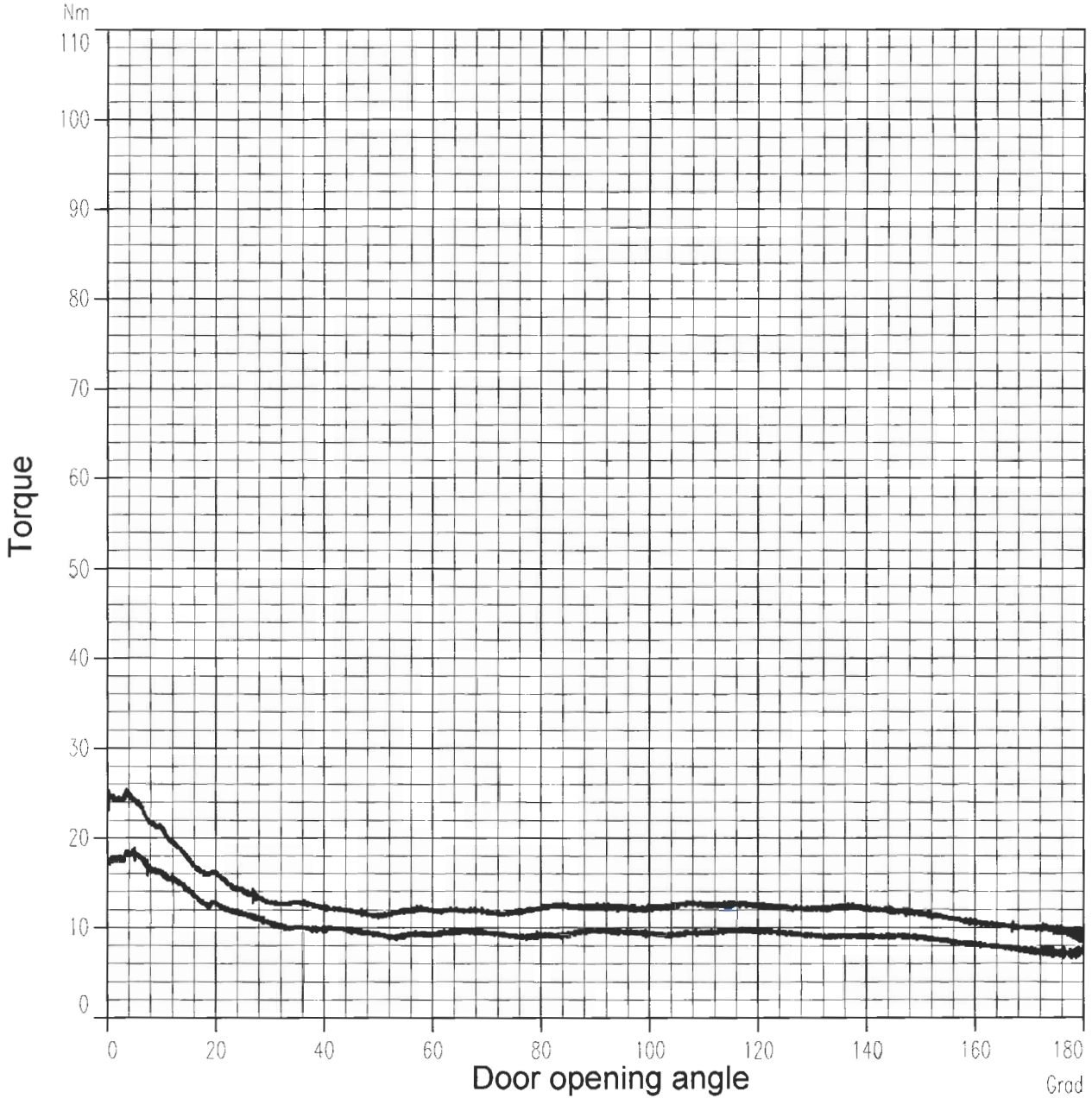
Further Information

Further information regarding the details contained in this data sheet may be obtained from Dorma UK Limited (Tel: 01462 477600).

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

Issued: 11th December 2001
Revised: 20th August 2018
Valid to: 2nd February 2022

Torque curve



Controlled door closing device EN 1154

Manufacturer: DORMA
Model: TS 72 EN 2-4 BC
Sample: B 1
Size: 3
5000 Cycles

Standard installation

Mins
08.08.08

Materialprüfungsamt
MPA NRW
50
Nordrhein-Westfalen