

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

This folder contains all technical documentation detailing the compliance of the DORMA TS72V and TS72V BC Door Closer complies with the technical and product requirements contained within 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
- EN1154 Test Certificate
 The TS72V and TS72V BC have been successfully independently third party tested to BS EN1154

3. 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) Insulated or un-insulated 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).
- 4. 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

DORMA 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

dormakaba 🚧

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 8Moderate 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

biden flerand

Michael Hensel

Senior Vice President Access Solutions DACH





Prüfen · Überwachen · Zertifizieren

Certificate of constancy of performance 0432-CPR-00026-34

Version 01

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), this certificate applies to the construction product

Overhead door closer TS 71 and TS 72

Controlled door closing devices for single and double-leaf swing doors as detailed and classified on annex 1,

placed on the market under the name or trade mark of

dormakaba Deutschland GmbH

DORMA Platz 1 58256 Ennepetal, Germany

and produced in the manufacturing plant(s)

Dortmund , 11.06.2019

DO 2.5

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in annex ZA of the standard(s)

EN 1154:1996/A1:2002/AC:2006

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This certificate was first issued on 11.06.2019 and will remain valid until 11.06.2024 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.



By order Dr. Krasch

Head of Certification Body

This Certificate consists of 1 page and 1 annex(es). The original of this document was issued in German language. In case of doubt only the German version is valid.



Materialprüfungsamt Nordrhein-Westfalen • Marsbruchstraße 186 • 44287 Dortmund • Telefon +49 (0)231 4502-0 • Telefax +49 (0)231 458549 • MPA NRW Brandprüfzentrum Erwitte • Auf den Thränen 2 • 59597 Erwitte • Telefon +49 (0)2943 897-0 • Telefax +49 (0)2943 897-89 • • E-Mail: info@mpanrw.de • www.inpanrw.de •



Materialprüfungsamt Nordrhein-Westfalen

Prüfen · Überwachen · Zertifizieren

List of Products

122

Type :	"TS 71 EN 3/4"
Description :	Overhead door closer with hydraulic damping.
Arm system :	scissor arm
Mounting :	Door-leaf fixing, pull side (standard installation)
Size :	3/4
Classification / mounting :	4 8 3/4 1 1 2
	Door-leaf fixing, pull side (standard installation)
Manufacturing plant :	DO 2.5
Remarks :	When used on fire- and smoke protection doors, the door closing device must be set at least door closer size EN 3.

Intended use:

for single and double-leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product	
Self-closing	5.2.1 General	passed	
	5.2.3 Closing torque	passed (Size 3/4)	
	5.2.4 Opening torque	passed (Size 3/4)	
	5.2.5 Efficiency	passed (Size 3/4)	
	5.2.6 Closing time	passed (Size 3/4)	
	5.2.7 Opening angle		
	Door-leaf fixing, pull side	passed (Class 4)	
	5.2.8 Overload test	passed(Size 3/4)	
	5.2.9 Temperature dependence	passed	
	5.2.10 Leakage	passed	
	5.2.11 Damage	passed	
	5.2.12 Latch regulation	passed	
	5.2.13 Back check	not applicable	
	5.2.14 Delayed action	not applicable	
	5.2.15 Adjustable force	passed	
	5.2.16 Free play at zero point position	not applicable	
	5.2.18 Use on fire-/smoke protection doors	Class 1: passed	
Durability	5.2.2 durability	Class 8 (500 000 cycles): passed	
Self-closing	5.2.17.1 corrosion resistance	Class 2 (48h): passed	
	5.2.17.2 corrosion resistance	Class 2 (48h): passed	
	5.2.17.3 corrosion resistance	Class 2 (48h): passed	
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances	



Materialprüfungsamt Nordrhein-Westfalen

Prüfen · Überwachen · Zertifizieren

Type :	"TS 71 EN 3/4 BCA"
Description :	Overhead door closer with hydraulic damping.
Arm system :	scissor arm
Mounting :	Door-leaf fixing, pull side (standard installation)
Size :	3/4
Classification / mounting :	4 8 3/4 1 1 2
	Door-leaf fixing, pull side (standard installation)
Manufacturing plant :	DO 2.5
Remarks :	When used on fire- and smoke protection doors, the door closing device must be set at least door closer size EN 3.

Intended use:

for single and double-leaf fire- and/or smoke protection swingdoors

Essential characteristics Clauses with requirements in EN 1154:1996/A1:2002/AC:2006		Performance of product		
Self-closing	5.2.1 General	passed		
	5.2.3 Closing torque	passed (Size 3/4)		
	5.2.4 Opening torque	passed (Size 3/4)		
	5.2.5 Efficiency	passed (Size 3/4)		
	5.2.6 Closing time	passed (Size 3/4)		
	5.2.7 Opening angle			
	Door-leaf fixing, pull side	passed (Class 4)		
	5.2.8 Overload test	passed(Size 3/4)		
	5.2.9 Temperature dependence	passed		
	5.2.10 Leakage	passed		
	5.2.11 Damage	passed		
	5.2.12 Latch regulation	passed		
	5.2.13 Back check	passed		
	5.2.14 Delayed action	not applicable		
	5.2.15 Adjustable force	passed		
	5.2.16 Free play at zero point position	not applicable		
	5.2.18 Use on fire-/smoke protection doors	Class 1: passed		
Durability	5.2.2 durability	Class 8 (500 000 cycles): passed		
Self-closing	5.2.17.1 corrosion resistance	Class 2 (48h): passed		
	5.2.17.2 corrosion resistance	Class 2 (48h): passed		
	5.2.17.3 corrosion resistance	Class 2 (48h): passed		
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.		

Certificate of Constancy of performance no. 0432-CPR-00026-34 (Version: 01)

Materialprüfungsamt Nordrhein-Westfalen

Prüfen · Überwachen · Zertifizieren

Type :	"TS 72 EN 2-4"
Description :	Overhead door closer with hydraulic damping.
Arm system :	scissor arm
Mounting :	Door-leaf fixing, pull side (standard installation)
Size :	2-4
Classification / mounting :	4 8 2-4 1 1 2
	Door-leaf fixing, pull side (standard installation)
Manufacturing plant :	DO 2.5
Remarks :	When used on fire- and smoke protection doors, the door closing device must be set at least door closer size EN 3.

Intended use:

for single and double-leaf fire- and/or smoke protection swingdoors

Essential characteristics Clauses with requirements in EN 1154:1996/A1:2002/AC:2006		Performance of product		
Self-closing	5.2.1 General	passed		
	5.2.3 Closing torque	passed (Size 2-4)		
	5.2.4 Opening torque	passed (Size 2-4)		
	5.2.5 Efficiency	passed (Size 2-4)		
	5.2.6 Closing time	passed (Size 2-4)		
	5.2.7 Opening angle			
	Door-leaf fixing, pull side	passed (Class 4)		
	5.2.8 Overload test	passed (Size 2-4)		
	5.2.9 Temperature dependence	passed		
	5.2.10 Leakage	passed		
	5.2.11 Damage	passed		
	5.2.12 Latch regulation	passed		
	5.2.13 Back check	not applicable		
	5.2.14 Delayed action	not applicable		
	5.2.15 Adjustable force	passed		
	5.2.16 Free play at zero point position	not applicable		
	5.2.18 Use on fire-/smoke protection doors	Class 1: passed		
Durability	5.2.2 durability	Class 8 (500 000 cycles): passed		
Self-closing	5.2.17.1 corrosion resistance	Class 2 (48h): passed		
	5.2.17.2 corrosion resistance	Class 2 (48h): passed		
	5.2.17.3 corrosion resistance	Class 2 (48h): passed		
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substance.		

Annex 1 of

Certificate of Constancy of performance no. 0432-CPR-00026-34 (Version: 01)



Materialprüfungsamt Nordrhein-Westfalen

Prüfen · Überwachen · Zertifizieren

Type :	"TS 72 EN 2-4 BCA"
Description :	Overhead door closer with hydraulic damping.
Arm system :	scissor arm
Mounting :	Door-leaf fixing, pull side (standard installation)
Size :	2-4
Classification / mounting :	4 8 2-4 1 1 2
	Door-leaf fixing, pull side (standard installation)
Manufacturing plant :	DO 2.5
Remarks :	When used on fire- and smoke protection doors, the door closing device must be set at least door closer size EN 3.

Intended use:

for single and double-leaf fire- and/or smoke protection swingdoors

Ssential characteristics Clauses with requirements in EN 1154:1996/A1:2002/AC:2006		Performance of product		
Self-closing	5.2.1 General	passed		
	5.2.3 Closing torque	passed (Size 2-4)		
	5.2.4 Opening torque	passed (Size 2-4)		
	5.2.5 Efficiency	passed (Size 2-4)		
-	5.2.6 Closing time	passed (Size 2-4)		
	5.2.7 Opening angle			
	Door-leaf fixing, pull side	passed (Class 4)		
	5.2.8 Overload test	passed (Size 2-4)		
	5.2.9 Temperature dependence	passed		
	5.2.10 Leakage	passed		
	5.2.11 Damage	passed		
	5.2.12 Latch regulation	passed		
	5.2.13 Back check	passed		
	5.2.14 Delayed action	not applicable		
	5.2.15 Adjustable force	passed		
	5.2.16 Free play at zero point position	not applicable		
	5.2.18 Use on fire-/smoke protection doors	Class 1: passed		
Durability	5.2.2 durability	Class 8 (500 000 cycles): passed		
Self-closing	5.2.17.1 corrosion resistance	Class 2 (48h): passed		
	5.2.17.2 corrosion resistance	Class 2 (48h): passed		
	5.2.17.3 corrosion resistance	Class 2 (48h): passed		
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances		

Certificate of Constancy of performance no. 0432-CPR-00026-34 (Version: 01)



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 Warringtonfire Testing and Certification Limited

Pal Report

Paul Duggan Certification Manager



Issued: 11th December 2001 Revised : 7th October 2019 Valid to: 2nd February 2022



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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	1	1	1	×	x	x	x
TS72V	1	1	1	x	x	×	×
TS72VBC	1	1	1	×	x	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, door assemblies consisting of metal faced and edged leaves in metal frames, <u>uninsulated</u> for the required classification period, with or without intumescent sealing, and having a fire resistance up to 240 minutes (Codes MM & IMM) <u>with closers fitted to the fire risk face only*</u>

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)

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

Signed AJ/002

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Issued: 11th December 2001 Revised: 7th October 2019 Valid to: 2nd February 2022

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CERTIFICATE No CF 268 DORMA UK LIMITED

TS71, TS72V & TS72VBC OVERHEAD DOOR CLOSERS

- This certification is provided to the client for their own purposes and we cannot opine on 3. whether it will be accepted by Building Control authorities or any other third parties for any purpose
- The closers are approved on the basis of: 4.
 - Initial type testing to EN1154 and BS EN 1634-1 i)
 - An appraisal against TS34 ii)
 - Inspection of quality management system iii)
 - Inspection and surveillance of factory production control iv)
 - Ongoing audit testing in accordance with EN 1154 requirements v)
- The closers shall be fixed with screws supplied by the closer manufacturer. Bolt-through 5. fixings shall not be used.
- Where the closers are fitted to door leaves or frames that are manufactured from mineral 6. 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.
- This approval is applicable only to the specified closers when mounted in the applications 7. 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).
- The approval relates to on-going production. Product and/or its immediate packaging is 8. 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.

Signed AJ/002

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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	ММ	IMM	ITT	ITM	ITC	
FD20	√ * [#]	√ * [#]	\checkmark	√*	\checkmark	
FD30	√ * [#]	√ * [#]	\checkmark	√*	\checkmark	
FD60	√ * [#]	√ * [#]	\checkmark	√*	\checkmark	
FD120	√ * [#]	√ * [#]	\checkmark	√*	\checkmark	
FD240	√ * [#]	√ * [#]	×	×	x	
E 20	√#	$\checkmark^{\#}$	\checkmark	√*	\checkmark	
EI 20	√*	√*	\checkmark	√*	\checkmark	
E 30	√#	√#	\checkmark	√*	\checkmark	
EI 30	√ *	√*	\checkmark	√*	\checkmark	
E 60	√#	$\checkmark^{\#}$	\checkmark	√*	\checkmark	
EI 60	√*	√*	\checkmark	√*	\checkmark	
E 90	√#	$\checkmark^{\#}$	\checkmark	√*	\checkmark	
EI 90	√*	√*	V .	√*	\checkmark	
E 120	√#	√#	\checkmark	√*	\checkmark	
EI 120	√*	√*	\checkmark	√*	\checkmark	
E 240	√#	√#	×	×	×	
EI 240	√*	√*	×	×	×	

<u>Key:</u>

- 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

Signed AJ/002

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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 <u>fire</u> 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
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Dorma TS71, TS72V and TS72VBC when mounted in parallel arm (Figure 6):

Signed AJ/002

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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).

Signed AJ/002

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11th December 2001 7th October 2019 2nd February 2022

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Torque curve

