

### TS83 EN 2-5 RACK AND PINION DOOR CLOSER

This document contains Third Party Certification and Information for the dormakaba TS83 Door Closer to demonstrate compliance with the United Kingdom Building Regulations and Construction Product Regulations 1991.

#### Contents

#### 1. Declaration of Performance

The TS83 is CE marked to BS EN1154

#### 2. Certifire Certificate CF118

The TS83 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 TS83 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 TS83 EN2-5 Rack and Pinion Door Closer with adjustable power, adjustable 'thinking backcheck, adjustable delayed action (TS83BCDC only), adjustable closing speed in two independent ranges, closing force infinitely variable between EN2-5, Non Handed, CE Marked to BS EN1154 and Certifire Certificated CF118.



Once the TS83 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\_0006

#### EN EU Nr. 305/2011 Declaration of Performance

Unique identification code of the product-type: Controlled door closing devices DORMA TS 83 EN 2-5 BC/ÖD + DC/SV

- 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	<ul> <li>Closing doors from &gt;= 180° open grade 4</li> <li>Door closer power size EN 2-5</li> <li>Suitability for fire/smoke door use grade1</li> <li>Safety grade 1</li> <li>Temperature dependence +40°C and -15°C: &gt;=3s &lt;=25s</li> <li>Latch control</li> <li>Back check</li> <li>Delayed closing</li> <li>Adjustable closing force</li> </ul>	EN 1154: 1996/A1: 2002/AC: 2006
Durability of self-closing	<ul><li>Durability 500000 cycles grade 8</li><li>high corrosion resistance grade 3</li></ul>	
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:

Hickory flewel

Ennepetal 04.11.2016

Michael Hensel

Senior Vice President Access Solutions DACH

DOP\_0006\_DORMA\_TS\_83\_EN\_2-5 3/25

### CERTIFICATE OF APPROVAL No CF 118

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** 

Dorma TS 83 and TS 89 F Overhead Mounted 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

Paul Duggan

Certification Manager



Issued: Revised: Valid to: 3<sup>rd</sup> February 1992 14<sup>th</sup> March 2019 2<sup>nd</sup> February 2022





# CERTIFICATE No CF 118 DORMA UK LTD

### DORMA TS 83 AND TS 89 F OVERHEAD MOUNTED DOOR CLOSERS

 The Dorma TS 83 and TS 89 F are overhead mounted door closing devices with adjustable power. The TS 83 series incorporate an integral backcheck and delayed action function. The approval applies to the following models and configurations only:

	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 or pull face
TS 83 BCDC EN2-5	✓	1	1	×	x	×	44
TS 83 BCDC EN3-6	1	1	1	×			x
TS 83 BC EN2-5	1		· · ·	-	×	×	sc
		<b>V</b>	✓	×	3c	sc	JC
TS 83 BC EN3-6	<b>✓</b>	1	1	×	×	-	
TS 83 BC EN7	1	1			-	×	x
		•	*	×	×	30	30
TS 89 F	✓	JC .	×	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.

- 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.
- The closers are approved on the basis of:
  - i) Initial type testing to EN1154 and BS EN 1634-1: 2000
  - 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

Page 2 of 6 Signed AJ/002

Pel Ryg-

# CERTIFICATE No CF 118 DORMA UK LTD

### DORMA TS 83 AND TS 89 F OVERHEAD MOUNTED DOOR CLOSERS

This approval relates to its 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

- 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. The 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.

Page 3 of 6 Signed AJ/002

Re agg-

# CERTIFICATE No CF 118 DORMA UK LTD

### DORMA TS 83 AND TS 89 F OVERHEAD MOUNTED DOOR CLOSERS

9. The following table shows acceptable doorsets types and fire resistance periods:

		Approved Door Type				
Class	MM	IMM	ITT	ITM	ITC	
FD20	√* <sup>#</sup>	√* <sup>#</sup>	✓	<b>√</b> *	<b>✓</b>	
FD30	√* <sup>#</sup>	<b>√</b> *#	<b>√</b>	<b>√</b> *		
FD60	<b>√</b> * <sup>#</sup>	<b>√</b> *#	<b>V</b>	<b>√</b> *		
FD120	<b>√</b> * <sup>#</sup>	<b>√</b> *#	<b>√</b>	<b>/</b> *		
FD240	<b>√</b> * <sup>#</sup>	√* <sup>#</sup>	×	×	×	
E 20	<b>√</b> #	<b>√</b> #	<b>✓</b>	<b>/</b> *	<b>√</b>	
EI 20	<b>√</b> *	<b>√</b> *	/	<b>√</b> *	<b>✓</b>	
E 30	<b>√</b> #	<b>√</b> #	<b>✓</b>	<b>√</b> *	<u> </u>	
EI 30	<b>√</b> *	<b>√</b> *	/	<b>√</b> *		
E 60	<b>√</b> #	<b>√</b> #	/	<b>√</b> *		
EI 60	<b>√</b> *	<b>√</b> *	/	<b>√</b> *		
E 90	<b>√</b> #	<b>√</b> #	1	<b>/</b> *	<u> </u>	
EI 90	<b>√</b> *	<b>√</b> *	/	<b>√</b> *	<b>√</b>	
E 120	<b>√</b> #	<b>√</b> #	<b>/</b>	<b>√</b> *	<b>√</b>	
EI 120	<b>/</b> *	<b>√</b> *	1	<b>√</b> *		
E 240	<b>√</b> #	<b>√</b> #	×	×	×	
EI 240	<b>√</b> *	<b>/</b> *	×	×	×	

#### 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

Page 4 of 6 Signed AJ/002

Re agg

# CERTIFICATE No CF 118 DORMA UK LTD

### DORMA TS 83 AND TS 89 F OVERHEAD MOUNTED 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 closers may not be fitted to doorsets incorporating timber leaves without leaf/frame edge 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 codes

The approval provides the following classification:

TS 83 BC EN7 when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

4 8 7 1 1 4

TS 83 BCDC EN3-6 and TS 83 BC EN3-6 when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

Page 5 of 6 Signed AJ/002

Pel agg-

# CERTIFICATE No CF 118 DORMA UK LTD

4	8	6 3	1	1	4
---	---	--------	---	---	---

### DORMA TS 83 AND TS 89 F OVERHEAD MOUNTED DOOR CLOSERS

### Classification codes - Cont'd

TS 83 BCDC EN2-5 and TS 83 BC EN2-5 when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

4	8	5	1	1	4
---	---	---	---	---	---

TS 83 BCDC EN2-5 and TS 83 BC EN2-5 when mounted in parallel arm (Figure 6):

4	8	4	1	1	nounted
		3		1	4

TS 83 BCDC EN3-6 and TS 83 BC EN3-6 when mounted in parallel arm (Figure 6):

4	8	5	1	1	4
		3			

TS 89 F when mounted in projecting arm (Figure 1):

4	8	6	1	1 (Figure 1 <b>1</b>	3
		3			U

### **Further Information**

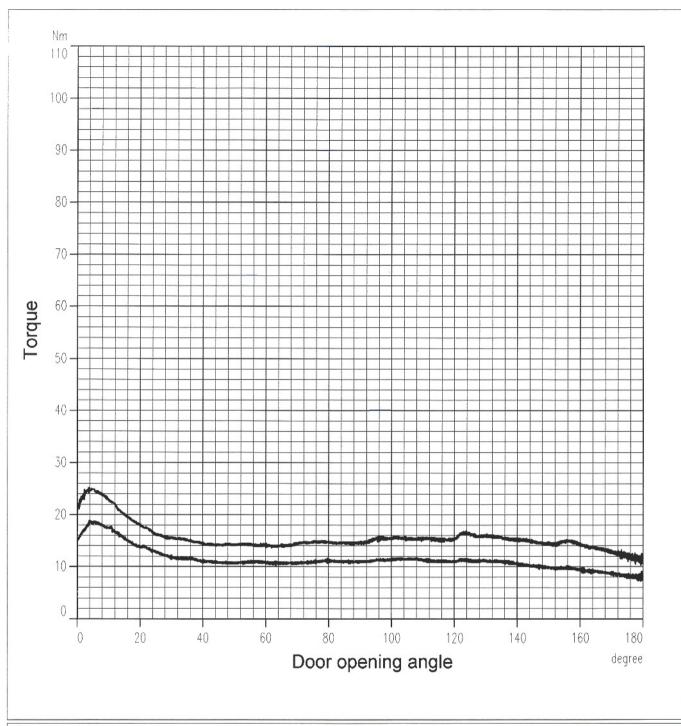
Further information regarding the details contained in this data sheet may be obtained from Dorma UK Limited (Tel: 01462 477600).

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

Page 6 of 6 Signed AJ/002

Pel agg-

### Torque curve



### Controlled door closing device EN 1154

Manufacturer: DORMA Model: TS 83 EN 2-5 BCA

Sample: B 1

Size: 3

5000 Cycles

Standard installation

