## dormakaba 🚧

### DORMA TS73V EN 2-4 RACK AND PINION DOOR CLOSER

This folder contains all technical documentation detailing the compliance of the DORMA TS73V 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 TS73V is CE marked to BS EN1154
- 2. EN1154 Certificate of Constancy of Performance The TS73V has been successfully independently third party tested to BS EN1154

#### 3. 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) 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 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**

DORMA 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 requirements.

# LEISTUNGSERKLÄRUNG DECLARATION OF PERFORMANCE

## dormakaba 🚧

## 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	<ul> <li>Closing doors from &gt;= 180° open grade 4</li> <li>Door closer power size EN 2-4</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>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>Very high corrosion resistance grade 4</li></ul>			
Dangerous substances	<ul> <li>Substances of very high concern &lt; threshold values</li> </ul>			

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 03.11.2016

Hickory flerand

Michael Hensel

Senior Vice President Access Solutions DACH



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Certificate of constancy of performance 0432-CPR-00026-33

Version 02

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 of the model series TS 73, TS 83, and TS 89F

Controlled door closing devices for single and doubleleaf swing doors as detailed and classified on annex 2

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, 18.10.2018

## DO 2.20

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 22.08.2018 and will remain valid until 22.08.2023 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

Dipl.-Ing. Friedrich Head of Certification Body

This Certificate consists of 1 page and 1 annex(es). This Certificate replaces the Certificate no. 0432-CPR-00026-33 dated 22.08.2018, Version 01.



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.mpanrw.de • . . .

## Materialprüfungsamt Nordrhein-Westfalen

MPA NRW. 🖉

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### **List of Products**

Туре :	"TS 73 V EN 2-4 BC/ÖD"		
Description :	Overhead door closer with hydraulic damping, adjustable latch and adjustable back check.		
Arm system :	Scissor arm		
Mounting :	Door-leaf fixing, pull side (standard installation)		
	Frame fixing, push side		
Size :	2 - 4		
Classification / mounting:	4 8 2-4 1 1 4		
	Door-leaf fixing, pull side (standard installation)		
	4 8 2-4 1 1 4		
	Frame fixing, push side		
	4 8 2-4 1 1 4		
Manufacturing plant :	DO 2.20		
Remarks:	optional with mounting plate		

#### Intended use:

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product		
Self-closing	5.2.1 General	passed		
self closing	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)		
	Frame fixing, push 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 4 (240h): passed		
	5.2.17.2 Corrosion resistance	Class 4 (240h): passed		
	5.2.17.3 Corrosion resistance	Class 4 (240h): passed		
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.		

Prüfen · Überwachen · Zertifizieren

Type :	"TS 83 EN 3-6 BC/ÖD + DC/SV"		
Description :	Overhead door closer with hydraulic damping, adjustable latch, adjustable back check, optional adjustable delayed action and optional corrosion resistant design (AC).		
Arm system :	Scissor arm		
Mounting :	Door-leaf fixing, pull side (standard installation)		
	Frame fixing, push side		
Size :	3 - 6		
Classification / mounting:	4 8 3-6 1 1 3		
	Door-leaf fixing, pull side (standard installation)		
	4 8 3-6 1 1 3		
	Frame fixing, push side		
	4 8 3-6 1 1 3		
Manufacturing plant :	DO 2.20		
Remarks:	optional with mounting plate		

#### Intended use:

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 3-6)		
	5.2.4 Opening torque	passed (Size 3-6)		
	5.2.5 Efficiency	passed (Size 3-6)		
	5.2.6 Closing time	passed (Size 3-6)		
	5.2.7 Opening angle			
	Door-leaf fixing, pull side	passed (Class 4)		
	Frame fixing, push side	passed (Class 4)		
	5.2.8 Overload test	passed (Size 3-6)		
	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	passed		
	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 3 (96h): passed		
	5.2.17.2 Corrosion resistance	Class 3 (96h): passed		
	5.2.17.3 Corrosion resistance	Class 3 (96h): passed		
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.		



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Туре :	"TS 83 EN 2-5 BCA/DC"		
Description :	Overhead door closer with hydraulic damping, adjustable latch, adjustable back check and optional adjustable delayed action.		
Arm system :	Scissor arm		
Mounting :	Door-leaf fixing, pull side (standard installation)		
	Frame fixing, push side		
Size :	2 - 5		
Classification / mounting:	4 8 2-5 1 1 3		
	Door-leaf fixing, pull side (standard installation)		
	4 8 2-5 1 1 3		
	Frame fixing, push side		
	4 8 2-5 1 1 3		
Manufacturing plant :	DO 2.20		
Remarks:	optional with mounting plate		

#### Intended use:

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 2-5)		
	5.2.4 Opening torque	passed (Size 2-5)		
	5.2.5 Efficiency	passed (Size 2-5)		
	5.2.6 Closing time	passed (Size 2-5)		
	5.2.7 Opening angle			
	Door-leaf fixing, pull side	passed (Class 4)		
	Frame fixing, push side	passed (Class 4)		
	5.2.8 Overload test	passed (Size 2-5)		
	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	passed		
	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 3 (96h): passed		
	5.2.17.2 Corrosion resistance	Class 3 (96h): passed		
	5.2.17.3 Corrosion resistance	Class 3 (96h): passed		
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.		



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Туре :	"TS 83 EN 7 BC/ÖD"	
Description :	Overhead door closer with hydraulic damping, adjustable latch, and adjustable back check.	
Arm system :	Scissor arm	
Mounting :	Door-leaf fixing, pull side (standard installation)	
	Frame fixing, push side	
Size :	7	
Classification / mounting:	4 8 7 1 1 4	
	Door-leaf fixing, pull side (standard installation)	
	4 8 7 1 1 4	
	Frame fixing, push side	
	4 8 7 1 1 4	
Manufacturing plant :	DO 2.20	
Remarks:	optional with mounting plate	

#### Intended use:

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 7)		
	5.2.4 Opening torque	passed (Size 7)		
	5.2.5 Efficiency	passed (Size 7)		
	5.2.6 Closing time	passed (Size 7)		
	5.2.7 Opening angle			
	Door-leaf fixing, pull side	passed (Class 4)		
	Frame fixing, push side	passed (Class 4)		
	5.2.8 Overload test	passed (Size 7)		
	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 4 (240h): passed		
	5.2.17.2 Corrosion resistance	Class 4 (240h): passed		
	5.2.17.3 Corrosion resistance	Class 4 (240h): passed		
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.		



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Туре:	"TS 89 F EN 3-6"
Description :	Overhead door closer with hydraulic damping and adjustable latch.
Arm system :	Scissor arm
Mounting :	Door-leaf fixing, pull side (standard installation)
	Frame fixing, push side
Size :	3 - 6
Classification / mounting:	4 8 3-6 1 1 3
	Door-leaf fixing, pull side (standard installation)
	4 8 3-6 1 1 3
	Frame fixing, push side
	4 8 3-6 1 1 3
Manufacturing plant :	DO 2.20
Remarks:	optional with mounting plate

#### Intended use:

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 3-6)		
	5.2.4 Opening torque	passed (Size 3-6)		
	5.2.5 Efficiency	passed (Size 3-6)		
	5.2.6 Closing time	passed (Size 3-6)		
	5.2.7 Opening angle			
	Door-leaf fixing, pull side	passed (Class 4)		
	Frame fixing, push side	passed (Class 4)		
	5.2.8 Overload test	passed (Size 3-6)		
	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 3 (96h): passed		
	5.2.17.2 Corrosion resistance	Class 3 (96h): passed		
	5.2.17.3 Corrosion resistance	Class 3 (96h): passed		
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.		

## 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

ful Region

Paul Duggan Certification Manager



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



This certificate is the property of Warringtonfire Testing and Certification Limited Registered in England and Wales Registered Office: 10 Lower Grosvenor Place, London, United Kingdom, SW1W 0EN. Company Registration No: 11371436

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## CERTIFICATE No CF 117 DORMA UK LTD

### DORMA TS73V, TS73V BCDC and TS73EMF OVERHEAD DOOR CLOSERS

1. 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	Paralle! 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	×	×
TS73V BCDC	1	1	✓	×	×	x	*
TS73EMF EN4	1	1	x	x	×	×	×
TS73EMF EN5	1	1	x	×	×	×	×
TS73EMF EN6	1	1	x	x	x	×	×

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

- 3. 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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## CERTIFICATE No CF 117 DORMA UK LTD

## DORMA TS73V, TS73V BCDC and TS73EMF 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	√*	√*	$\checkmark$	√*	$\checkmark$			
FD30	√*	√*	$\checkmark$	√*	$\checkmark$			
FD60	√*	√*	$\checkmark$	√*	~			
FD120	√*	√*	$\checkmark$	√*	$\checkmark$			
FD240	√*	√*	×	×	×			
E 20	×	×	$\checkmark$	√*	$\checkmark$			
EI 20	√*	√*	$\checkmark$	√*	$\checkmark$			
E 30	×	x	$\checkmark$	√*	$\checkmark$			
EI 30	√*	√*	$\checkmark$	<b>√</b> *	$\checkmark$			
E 60	×	×	$\checkmark$	√*	$\checkmark$			
EI 60	√*	√*	$\checkmark$	√*	$\checkmark$			
E 90	×	×	$\checkmark$	√*	$\checkmark$			
EI 90	√*	<b>√</b> *	$\checkmark$	√*	$\checkmark$			
E 120	×	×	$\checkmark$	√*	$\checkmark$			
EI 120	√*	√*	$\checkmark$	√*	$\checkmark$			
E 240	×	×	×	x	×			
EI 240	√*	√*	×	×	×			

Key:

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

Doors are classified as the following types: 10.

> 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 fullyinsulated for the required classification period.
- Mechanical Hold open option is not approved

#### **Classification Codes**

TS73V when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

	4	8	4 3	1	1	4	
े T 61	573V BCI	DC when	mounted	in projec	ting arm	(Figure 1)	) and transom mount (Figure

4	8	4	1	1	3
4	0	3	L.	1	5

TS73V when mounted in parallel arm (Figure 6):

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DORMA	TS73V, T	S73V BC	DC and T	S73EMF	OVERHEAD	DOOR	CLOSERS
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Revised: 13th March 2019 2<sup>nd</sup> February 2022 Valid to:

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## CERTIFICATE No CF 117 DORMA UK LTD

#### **Classification Codes – Cont'd**

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

4	8	3	1	1	3	
S73EMF	EN4 wher	n mountee	d in proje	cting arm	(Figure 1	) and transom mount (Figu
4	8	4	1	1	4	
S73EMF	EN5 wher	n mounted	d in proje	cting arm	(Figure 1	) and transom mount (Figu
	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
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#### **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

