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## CERTIFICATE OF APPROVAL

### No CF 117

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

**Dormakaba 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:

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**CERTIFIED PRODUCT**  
**TS 73 V, TS83 & TS89 SERIES**

**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: 3<sup>rd</sup> February 1992  
Reissued: 12<sup>th</sup> April 2022  
Valid to: 11<sup>th</sup> April 2027

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## CERTIFICATE No CF 117 Dormakaba UK Ltd

### DORMA TS 73, TS 83 & TS 89 SERIES OVERHEAD DOOR CLOSERS

1. TS7 approval relates to the following overhead mounted door closing devices and configurations:

	Table 1						
	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
TS 73 V BC	✓	✓	✓	✗	✗	✗	✗
TS 73 V BCDC	✓	✗	✗	✗	✗	✗	✗
TS 73 EMF EN4	✓	✓	✗	✗	✗	✗	✗
TS 73 EMF EN5	✓	✓	✗	✗	✗	✗	✗
TS 73 EMF EN6	✓	✓	✗	✗	✗	✗	✗
TS 83 BCDC EN2-5	✓	✓	✗	✗	✗	✗	✗
TS 83 BCDC EN3-6	✓	✓	✗	✗	✗	✗	✗
TS 83 BC EN2-5	✓	✓	✓	✗	✗	✗	✗
TS 83 BC EN3-6	✓	✓	✓	✗	✗	✗	✗
TS 83 BC EN7	✓	✓	✗	✗	✗	✗	✗
TS 89 F	✓	✓	✗	✗	✗	✗	✗

**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 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.
3. The closers are approved on the basis of:
- Initial type testing to EN1154 and BS EN 1634-1
  - An appraisal against TS34
  - Inspection of quality management system
  - Inspection and surveillance of factory production control
  - Ongoing audit testing in accordance with EN 1154 requirements



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#### DORMA TS 73, TS 83 & TS 89 SERIES OVERHEAD DOOR CLOSERS

4. 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 predominantly steel faced and edged leaves in steel frames, fully-insulated for the required classification period as defined by EN1634-1 or BS476-22, with or without intumescent sealing, and having a fire resistance up to 240 minutes (Codes MM & IMM)

Latched and unlatched, door assemblies consisting of predominantly steel faced and edged leaves in steel 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 as defined by EN1634-1 or BS476-22, 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***

5. For ITT applications 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. All closers on ITT30 and ITT60 doorsets, in a 'Projecting arm (Fig. 1) body door mounted on pull face' application, may incorporate a '28008101' soffit fixing bracket recessed into the frame head rebate. The bracket shall be bedded on 2 mm Interdens sheet material for ITT60 applications (no additional intumescent protection is required for ITT30).
8. 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).



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#### DORMA TS 73, TS 83 & TS 89 SERIES OVERHEAD DOOR CLOSERS

9. Timber based doorset shall be installed in accordance with BS 8214.
10. 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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AJ/005

Issued: 3<sup>rd</sup> February 1992  
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### DORMA TS 73, TS 83 & TS 89 SERIES OVERHEAD DOOR CLOSERS

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

Table 2					
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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#### DORMA TS 73, TS 83 & TS 89 SERIES OVERHEAD DOOR CLOSERS

12. Doors are classified as the following types:

**Code ITT** - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral cores, hung in timber-based frames.

**Code ITM** - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral cores, hung in steel frames.

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

**Code MM** - 20 to 240 minute doorsets consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames without intumescent seals.

**Code IMM** - 20 to 240 minute doorsets consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames with intumescent seals.

#### Scope of Approval:

- Doors may not include uninsulated glass above 20% of their total area. Uninsulated glass shall not be included directly beneath the door closer body
- The closers may not be fitted to timber doorsets without perimeter intumescent fire seals to the frame rebate or door edge.
- 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
- '28008101' soffix fixing brackets are approved as detailed in section 7 above. The bracket shall be bedded on 2 mm Interdens sheet material for ITT60 applications (no additional intumescent protection is required for ITT30).

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DORMA TS 73, TS 83 & TS 89 SERIES OVERHEAD DOOR CLOSERS

**Scope of Approval – Con'd:**

- The following functions are supported by this certification:

Table 3				
Closer Ref.	Application	Latch Control	Backcheck	Delayed-Action
TS 73 V BC	Applications detailed in Table 1	Yes	Yes	No
TS 73 V BCDC	projecting arm (Figure 1)	Yes	Yes	Yes
TS 73 EMF EN4*	Applications detailed in Table 1	Yes	No	No
TS 73 EMF EN5*	Applications detailed in Table 1	Yes	No	No
TS 73 EMF EN6*	Applications detailed in Table 1	Yes	No	No
TS 83 BCDC EN2-5	Applications detailed in Table 1	Yes	Yes	Yes
TS 83 BCDC EN3-6	Applications detailed in Table 1	Yes	Yes	Yes
TS 83 BC EN2-5	Applications detailed in Table 1	Yes	Yes	No
TS 83 BC EN3-6	Applications detailed in Table 1	Yes	Yes	No
TS 83 BC EN7	Applications detailed in Table 1	Yes	Yes	No
TS 89 F	Applications detailed in Table 1	Yes	No	No

**Classification Codes**

TS 73 V BC when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

4	8	4 2	1	1	4
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TS 73 V BC when mounted in parallel arm (Figure 6):

4	8	3 2	1	1	4
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TS 73 V BCDC when mounted in projecting arm (Figure 1):

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

TS 73 EMF EN4 when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

3	8	4	1	1	3
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#### DORMA TS 83 AND TS 89 F OVERHEAD MOUNTED DOOR CLOSERS

#### Classification codes – Cont'd

TS 73 EMF EN5 when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

3	8	5	1	1	3
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TS 73 EMF EN6 when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

3	8	6	1	1	3
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TS 83 BCDC EN2-5 when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

4	8	5 2	1	1	4
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TS 83 BCDC EN3-6 when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

4	8	6 3	1	1	4
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TS 83 BC EN2-5 when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

4	8	5 2	1	1	4
---	---	--------	---	---	---

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

4	8	6 3	1	1	4
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TS 83 BC EN2-5 when mounted in parallel arm (Figure 6):

4	8	4 2	1	1	4
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**DORMA TS 83 AND TS 89 F OVERHEAD MOUNTED DOOR CLOSERS**

**Classification codes – Cont'd**

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

4	8	5 3	1	1	4
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TS 83 BC EN7 when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

4	8	7	1	1	4
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TS 89 F when mounted in projecting arm (Figure 1):

4	8	6 3	1	1	4
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*Note: power ratings shall be appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154).*

**Further Information**

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

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