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	TECHNICAL SCHEDULE
TS73V, TS73V BCDC and TS73EMF	**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: 3rd February 1992
Revised: 13th March 2019
Valid to: 2nd February 2022

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*	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
TS73V	✓	✓	✓	✘	✘	✘	✘
TS73V BCDC	✓	✓	✓	✘	✘	✘	✘
TS73EMF EN4	✓	✓	✘	✘	✘	✘	✘
TS73EMF EN5	✓	✓	✘	✘	✘	✘	✘
TS73EMF EN6	✓	✓	✘	✘	✘	✘	✘

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, 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)

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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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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

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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 only approved for use with steel-based doors and frames that are fully-insulated 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

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

4	8	4 3	1	1	3

TS73V when mounted in parallel arm (Figure 6):

4	8	3	1	1	4

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Classification Codes – Cont'd

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

4	8	3	1	1	3

TS73EMF EN4 when mounted in projecting arm (Figure 1) and transom mount (Figure 61):

4	8	4	1	1	4

TS73EMF EN5 when mounted in projecting arm (Figure 1) and transom mount (Figure 61**):**

4	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

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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