



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

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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: 3rd February 1992
Revised: 14th March 2019
Valid to: 2nd February 2022



CERTIFICATE No CF 118 DORMA UK LTD

DORMA TS 83 AND TS 89 F OVERHEAD MOUNTED DOOR CLOSERS

1. 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 on pull face |
| 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: 2000
 - 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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4. 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, 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, door assemblies consisting of metal faced and edged leaves in metal 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 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. 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.



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

| Class | Approved Door Type | | | | |
|--------|--------------------|-----|-----|-----|-----|
| | 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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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 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.

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):



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

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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 3 | 1 | 1 | 4 |
|---|---|--------|---|---|---|

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

| | | | | | |
|---|---|--------|---|---|---|
| 4 | 8 | 4 3 | 1 | 1 | 4 |
|---|---|--------|---|---|---|

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

| | | | | | |
|---|---|--------|---|---|---|
| 4 | 8 | 5 3 | 1 | 1 | 4 |
|---|---|--------|---|---|---|

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

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

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).