



CERTIFICATE OF APPROVAL

No CF 689

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

BOSS DOOR CONTROLS

**3 & 4 Rutherford Square, Brucefield Industry Park,
Livingston, West Lothian, EH54 9BU**
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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

**TS1.203, TS4.224, TS5.224,
TS5.224V, TS5.225,
TS5.225DA, TS5.225SA &
TS5.226 Overhead Door
Closers**

TECHNICAL SCHEDULE

**TS34 - 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: 21st May 2009
Reissued: 3rd July 2020
Valid to: 2nd July 2025



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TS5.225SA & TS5.226

1. 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 |
| TS1.203 | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |
| TS4.224 | ✓ | ✗ | ✓ | ✗ | ✗ | ✗ | ✗ |
| TS5.224 | ✓ | ✗ | ✓ | ✗ | ✗ | ✗ | ✗ |
| TS5.224V | ✓ | ✗ | ✓ | ✗ | ✗ | ✗ | ✗ |
| TS5.225 | ✓ | ✗ | ✓ | ✗ | ✗ | ✗ | ✗ |
| TS5.225DA | ✓ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |
| TS5.225SA | ✗ | ✗ | ✗ | ✓ | ✓ | ✗ | ✗ |
| TS5.226 | ✓ | ✗ | ✓ | ✗ | ✗ | ✗ | ✗ |

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 (CERTIFIRE Code - ITT) as indicated in the individual model's approval matrix detailed later in this certificate.

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) as indicated in the individual model's approval matrix detailed later in this certificate.

* See individual model's approval matrix for exact coverage of approval, fire resistance periods shown above do not apply to all models.



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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. The product and/or its immediate packaging are 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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BOSS DOOR CLOSERS - TS1.203, TS4.224, TS5.224, TS5.224V, TS5.225, TS5.225DA, TS5.225SA & TS5.226

10. Matrix of acceptable doorsets for TS1.203, TS4.224, TS5.224V & TS5.225SA

| Class | Approved Door Type | | | | |
|--------|--------------------|----|-----|-----|-----|
| | IMM | MM | ITT | ITM | ITC |
| FD20 | x | x | ✓ | x | x |
| FD30 | x | x | ✓ | x | x |
| FD60 | x | x | ✓ | x | x |
| FD120 | x | x | ✓ | x | x |
| FD240 | x | x | x | x | x |
| E 20 | x | x | ✓ | x | x |
| EI 20 | x | x | ✓ | x | x |
| E 30 | x | x | ✓ | x | x |
| EI 30 | x | x | ✓ | x | x |
| E 60 | x | x | ✓ | x | x |
| EI 60 | x | x | ✓ | x | x |
| E 90 | x | x | ✓ | x | x |
| EI 90 | x | x | ✓ | x | x |
| E 120 | x | x | ✓ | x | x |
| EI 120 | x | x | ✓ | x | x |
| E 240 | x | x | x | x | x |
| EI 240 | x | x | x | x | x |

Key:

- ✓ - Approved
- x - Not approved

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BOSS DOOR CLOSERS - TS1.203, TS4.224, TS5.224, TS5.224V, TS5.225, TS5.225DA, TS5.225SA & TS5.226

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

Matrix of acceptable doorsets for TS5.224, TS5.225, TS5.225DA & TS5.226

| Class | Approved Door Type | | | | |
|--------|--------------------|----|-----|-----|-----|
| | IMM | MM | 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 doorsets only

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BOSS DOOR CLOSERS - TS1.203, TS4.224, TS5.224, TS5.224V, TS5.225, TS5.225DA, TS5.225SA & TS5.226

13. 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.

Classification codes - The approval provides the following classifications:

TS1.203 in projecting arm configuration (Figure 1):

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

TS4.224 in projecting arm (Figure 1) configuration:

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

TS4.224 in parallel arm (Figure 6) configuration:

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

TS5.224 in projecting arm configuration (Figure 1):

| | | | | | |
|---|---|--------|---|---|---|
| 4 | 8 | 4 2 | 1 | 1 | 3 |
|---|---|--------|---|---|---|

TS5.224 in parallel arm configuration (Figure 6):

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

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Classification codes – Continued

TS5.224V in projecting arm configuration (Figure 1):

| | | | | | |
|---|---|--------|---|---|---|
| 4 | 8 | 4 2 | 1 | 1 | 3 |
|---|---|--------|---|---|---|

TS5.224V in parallel arm configuration (Figure 6):

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

TS5.225 in projecting arm configuration (Figure 1):

| | | | | | |
|---|---|--------|---|---|---|
| 4 | 8 | 5 2 | 1 | 1 | 3 |
|---|---|--------|---|---|---|

TS5.225 in parallel arm configuration (Figure 6):

| | | | | | |
|---|---|--------|---|---|---|
| 3 | 8 | 5 2 | 1 | 1 | 3 |
|---|---|--------|---|---|---|

TS5.225DA in projecting arm configuration (Figure 1):

| | | | | | |
|---|---|--------|---|---|---|
| 4 | 8 | 5 2 | 1 | 1 | 3 |
|---|---|--------|---|---|---|

TS5.225SA in sliding arm configuration (Body door mounted on pull face):

| | | | | | |
|---|---|--------|---|---|---|
| 3 | 8 | 4 2 | 1 | 1 | 3 |
|---|---|--------|---|---|---|

TS5.225SA in sliding arm configuration (Body transom mounted on push face):

| | | | | | |
|---|---|--------|---|---|---|
| 3 | 8 | 3 2 | 1 | 1 | 3 |
|---|---|--------|---|---|---|

TS5.226 in projecting arm configuration (Figure 1):

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

TS5.226 in parallel arm configuration (Figure 6):

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

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

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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
- All closer models are only approved in the fitting applications detailed with their classification codes.
- The closers may not be fitted to timber doorsets without perimeter intumescent fire seals to the frame rebate or door edge.
- Closers TS5.224, TS5.225, TS5.225DA & TS5.226 are only approved for use on steel-based doorsets that are fully-insulated for the required classification period.
- Mechanical Hold open option is not approved.
- The following functions are supported by this certification:

| Closer Ref. | Configuration | Backcheck | Delayed-Action |
|-------------|-----------------------------------|-----------|----------------|
| TS5.225 | Fig. 1 | ✓ | ✗ |
| TS5.225 | Fig. 6 | ✗ | ✗ |
| TS5.224 | Fig. 1 | ✗ | ✗ |
| TS5.224 | Fig. 6 | ✓ | ✗ |
| TS4.224 | Fig. 1 | ✗ | ✗ |
| TS4.224 | Fig. 6 | ✗ | ✗ |
| TS1.203 | Fig. 1 | ✗ | ✗ |
| TS5.224V | Fig. 1 | ✓ | ✗ |
| TS5.224V | Fig. 6 | ✗ | ✗ |
| TS5.225DA | Fig. 1 | ✗ | ✓ |
| TS5.226 | Fig. 1 | ✓ | ✗ |
| TS5.226 | Fig. 6 | ✗ | ✗ |
| TS5.225SA | Body door mounted on pull face | ✗ | ✗ |
| TS5.225SA | Body transom mounted on push face | ✗ | ✗ |



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Further Information

Further information regarding the details contained in this data sheet may be obtained from Boss Door Controls (Tel: 01506 467477).

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

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