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# 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**
**Tel: 01506 467477 Fax: 01506 467478**


**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 |
|---|---|
| **TS4.224, TS5.224, TS5.224V, TS5.225BC, TS5.225DA, TS5.225SA & TS5.226 Overhead Door Closers** | **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 2025
Valid to: 1st July 2030




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1. 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.

2. 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 |
| ***TS4.224*** | ✓ | ✗ | ✓ | ✗ | ✗ | ✗ | ✗ |
| ***TS5.224*** | ✓ | ✗ | ✓ | ✗ | ✗ | ✗ | ✗ |
| ***TS5.224V*** | ✓ | ✗ | ✓ | ✗ | ✗ | ✗ | ✗ |
| ***TS5.225BC*** | ✓ | ✗ | ✓ | ✗ | ✗ | ✗ | ✗ |
| ***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.*

3. This approval relates to their use with the following door assemblies: -

**Code ITT - 20 minute to 120 minute door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in timber or cellulosic frames.**

**Code MM/IMM - 20 to 240 minute door assemblies, fully-insulated for the required classification period as defined by EN1634-1 or BS476-22, consisting of predominantly steel leaves, hung in steel frames without or with intumescent seals.**

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.



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6. This approval is applicable only to the specified closers when mounted in the applications stated later under the classification codes section of this certificate and used with door assemblies that are CERTIFIRE approved or have achieved the appropriate fire resistance performance when tested at a laboratory accredited to IS/IEC 17025 (under International Laboratory accreditation Cooperation (ILAC) membership), in accordance with BS 476: Part 22: 1987 and/or BS EN 1634:1, and having power ratings appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154).

7. The closers shall be fixed to ITT doorsets with screws supplied by the closer manufacturer. Bolt-through fixings shall not be used.

8. 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.

9. Where the closer body is transom mounted the closer shall be fitted directly to the frame head, and the frame head shall be increased in height to accommodate the full closer body.

10. ITT doorsets shall be installed in accordance with BS 8214.

11. 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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12. Matrix of acceptable doorsets for **TS4.224, TS5.224V & TS5.225SA**

| | Approved Door Type | | | |
|---|---|---|---|---|
| **Class** | **IMM** | **MM** | **ITT** | **ITM** |
| **BS476-22** | | | | |
| **20** | ✗ | ✗ | ✓ | ✗ |
| **30** | ✗ | ✗ | ✓ | ✗ |
| **60** | ✗ | ✗ | ✓ | ✗ |
| **90** | ✗ | ✗ | ✓ | ✗ |
| **120** | ✗ | ✗ | ✓ | ✗ |
| **240** | ✗ | ✗ | ✗ | ✗ |
| **EN1634-1** | | | | |
| **Integrity** | **IMM** | **MM** | **ITT** | **ITM** |
| **20** | ✗ | ✗ | ✓ | ✗ |
| **30** | ✗ | ✗ | ✓ | ✗ |
| **60** | ✗ | ✗ | ✓ | ✗ |
| **90** | ✗ | ✗ | ✓ | ✗ |
| **120** | ✗ | ✗ | ✓ | ✗ |
| **240** | ✗ | ✗ | ✗ | ✗ |
| **Integrity/insulation** | **IMM** | **MM** | **ITT** | **ITM** |
| **20** | ✗ | ✗ | ✓ | ✗ |
| **30** | ✗ | ✗ | ✓ | ✗ |
| **60** | ✗ | ✗ | ✓ | ✗ |
| **90** | ✗ | ✗ | ✓ | ✗ |
| **120** | ✗ | ✗ | ✓ | ✗ |
| **240** | ✗ | ✗ | ✗ | ✗ |

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13. The following tables show acceptable doorsets types and fire resistance periods for **TS5.224, TS5.225BC, TS5.225DA & TS5.226**

| | Approved Door Type | | | |
|---|---|---|---|---|
| **Class** | **IMM** | **MM** | **ITT** | **ITM** |
| **BS476-22** | | | | |
| **20** | ✓* | ✓* | ✓ | ✗ |
| **30** | ✓* | ✓* | ✓ | ✗ |
| **60** | ✓* | ✓* | ✓ | ✗ |
| **90** | ✓* | ✓* | ✓ | ✗ |
| **120** | ✓* | ✓* | ✓ | ✗ |
| **240** | ✓* | ✓* | ✗ | ✗ |
| **EN1634-1** | | | | |
| **Integrity** | **IMM** | **MM** | **ITT** | **ITM** |
| **20** | ✗ | ✗ | ✓ | ✗ |
| **30** | ✗ | ✗ | ✓ | ✗ |
| **60** | ✗ | ✗ | ✓ | ✗ |
| **90** | ✗ | ✗ | ✓ | ✗ |
| **120** | ✗ | ✗ | ✓ | ✗ |
| **240** | ✗ | ✗ | ✗ | ✗ |
| **Integrity/insulation** | **IMM** | **MM** | **ITT** | **ITM** |
| **20** | ✓* | ✓* | ✓ | ✗ |
| **30** | ✓* | ✓* | ✓ | ✗ |
| **60** | ✓* | ✓* | ✓ | ✗ |
| **90** | ✓* | ✓* | ✓ | ✗ |
| **120** | ✓* | ✓* | ✓ | ✗ |
| **240** | ✓* | ✓* | ✗ | ✗ |

**Key:**

✓ - Approved

✗ - Not approved

✓* - Fully-insulated steel-based doors and frames only



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14. Doors are categorised as the following types:

**Code ITT - 20 minute to 120 minute door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in timber or cellulosic frames.**

**Code ITM - 20 minute to 120 minute door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in steel frames.**

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

**Code IMM - 20 to 240 minute door assemblies 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.
- 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, TS5.225BC, 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.



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- The following functions are supported by this certification:

| Closer Ref. | Applications | Latch Control | Backcheck | Delayed-Action |
|---|---|---|---|---|
| ***TS4.224*** | Projecting arm (Fig. 1) Body door mounted on pull face | Yes | No | No |
| ***TS4.224*** | Parallel arm (Fig. 6) Body door mounted on push face | Yes | No | No |
| ***TS5.224*** | Projecting arm (Fig. 1) Body door mounted on pull face | Yes | No | No |
| ***TS5.224*** | Parallel arm (Fig. 6) Body door mounted on push face | Yes | Yes | No |
| ***TS5.224V*** | Projecting arm (Fig. 1) Body door mounted on pull face | Yes | Yes | No |
| ***TS5.224V*** | Parallel arm (Fig. 6) Body door mounted on push face | Yes | No | No |
| ***TS5.225BC*** | Projecting arm (Fig. 1) Body door mounted on pull face | Yes | Yes | No |
| ***TS5.225BC*** | Parallel arm (Fig. 6) Body door mounted on push face | No | No | No |
| ***TS5.225DA*** | Projecting arm (Fig. 1) Body door mounted on pull face | Yes | No | Yes |
| ***TS5.225SA*** | Projecting arm (Fig. 1) Body door mounted on pull face | Yes | No | No |
| ***TS5.225SA*** | Projecting arm (Fig. 61) Body transom mounted on push face | Yes | No | No |
| ***TS5.226*** | Projecting arm (Fig. 1) Body door mounted on pull face | No | Yes | No |
| ***TS5.226*** | Parallel arm (Fig. 6) Body door mounted on push face | Yes | No | No |



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**Classification codes** - The approval provides the following classifications:

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

| | | | | | |
|---|---|---|---|---|---|
| 4 | 8 | 4<br>2 | 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<br>2 | 1 | 1 | 3 |

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

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

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

| | | | | | |
|---|---|---|---|---|---|
| 4 | 8 | 4<br>2 | 1 | 1 | 3 |

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

| | | | | | |
|---|---|---|---|---|---|
| 3 | 8 | 4<br>3 | 1 | 1 | 3 |

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

| | | | | | |
|---|---|---|---|---|---|
| 4 | 8 | 5<br>2 | 1 | 1 | 3 |

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

| | | | | | |
|---|---|---|---|---|---|
| 3 | 8 | 5<br>2 | 1 | 1 | 3 |

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

| | | | | | |
|---|---|---|---|---|---|
| 4 | 8 | 5<br>2 | 1 | 1 | 3 |

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

| | | | | | |
|---|---|---|---|---|---|
| 3 | 8 | 4<br>2 | 1 | 1 | 3 |



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TS5.225SA in projecting arm configuration Body transom mounted on push face (Figure 61):

| | | | | | |
|---|---|---|---|---|---|
| 3 | 8 | 3<br>2 | 1 | 1 | 3 |

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

| | | | | | |
|---|---|---|---|---|---|
| 4 | 8 | 6<br>3 | 1 | 1 | 3 |

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

| | | | | | |
|---|---|---|---|---|---|
| 3 | 8 | 5<br>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).*

**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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