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## CERTIFICATE OF APPROVAL

### No CF 5783

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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

## Boss Door Controls

**3&4 Rutherford Square, Brucefield Industry Park, Livingstone,  
West Lothian,  
EH4 9BU  
+44 (0) 1506 467477**

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

**TS6.224 Surface Mounted  
Overhead Door Closers and  
ITS6.224 Concealed 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:  
Valid to:

25<sup>th</sup> September 2019  
17<sup>th</sup> July 2022



## CERTIFICATE No CF 5783 Boss Door Controls

### BOSS TS6.224 and ITS6.224 Overhead Door Closers

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

Surface Mounted	Slide arms			
	Body door mounted on pull face	Body transom mounted on push face	Body door mounted on push face	Body transom mounted on pull face
TS6.224	✓	✗	✗	✗

Concealed	Single-action	Double-action	Body door mounted in top edge	Body transom mounted
ITS6.224	✓	✗	✓	✗

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

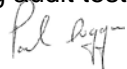
**TS6.224 surface mounted closers - latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames having a fire resistance up to 120 minutes (Code ITT).**

**ITS6.224 concealed closers - 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 60 minutes (Code ITT).**

4. The closers are approved on the basis of:

- i) Initial type testing to EN1154 and BS EN 1634-1: 2008
- ii) An appraisal against TS34
- iii) Certification of quality management system.
- iv) Inspection and surveillance of factory production control
- v) On-going audit testing in accordance with EN 1154 requirements

Signed  
K/012



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#### BOSS TS6.224 and ITS6.224 Overhead Door Closers

5. The closers shall be fixed with screws supplied by the closer manufacturer.
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. Concealed closers shall only be fitted to doorsets which have previously been shown capable of accommodating the installation of similar concealed items at the head of the doorset, without detriment to the doorset's performance.
8. This approval is applicable only to the specified closers mounted in slide arm configuration 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). Concealed closer models shall only be installed in conjunction with the intumescent protection detailed in the scope of approval.
9. The approval relates to on-going production. 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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## CERTIFICATE No CF 5783 Boss Door Controls

### BOSS TS6.224 and ITS6.224 Overhead Door Closers

10. The following table shows acceptable doorset types and fire resistance periods for the surface mounted closer models **TS6.224**:

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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## CERTIFICATE No CF 5783 Boss Door Controls

### BOSS TS6.224 and ITS6.224 Overhead Door Closers

11. The following table shows acceptable doorset types and fire resistance periods for the concealed closer models **ITS6.224**:

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	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	x
EI 90	x	x	x	x	x
E 120	x	x	x	x	x
EI 120	x	x	x	x	x
E 240	x	x	x	x	x
EI 240	x	x	x	x	x

**Key:**

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#### BOSS TS6.224 and ITS6.224 Overhead Door Closers

12. 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 fitted with surface mounted TS6.224 closers may not include uninsulated glass above 20% of their total area.
- The closers may not be fitted to timber doorsets without perimeter intumescent fire seals to the frame rebate or edge of the door.
- ITS6.224 Concealed closers:
  - Shall only be fitted to doorsets which have previously been shown capable of accommodating the installation of similar concealed items at the head of the doorset, without detriment to the doorset's performance.
  - shall be provided with a 1 mm thick lining of Interdens intumescent sheet material to all surfaces of the mortice cut into the head of the door leaf to accommodate the closer body and a 2 mm thick lining of the same material to all surfaces of the mortice cut into the head of the door frame to accommodate the closer slide channel.
  - The door leaf shall have a minimum thickness of 44 mm for 30 minute applications and 54 mm for 60 minute applications. Door frames shall have a minimum density of 450 kg/m<sup>3</sup> for 30 minute doorsets and shall be of hardwood with a minimum density of 650 kg/m<sup>3</sup> for 60 minute doorsets.

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**BOSS TS6.224 and ITS6.224 Overhead Door Closers**

**Classification codes**

This approval provides the following classifications for the closers:

TS6.224 in Standard surface mount fixing position, pull side and ITS6.224 body concealed in door:

<b>3</b>	<b>8</b>	<b>4</b> <b>3</b>	<b>1</b>	<b>1</b>	<b>3</b>
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**Further Information**

Further information regarding the details contained in this certificate may be obtained from Boss Door Controls Ltd (Tel: +44 (0) 1506 467477).

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

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