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## CERTIFICATE OF APPROVAL

### No CF 5787

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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 LIMITED

3 & 4 Rutherford Square, Brucefield Industrial Park, Livingston,  
West Lothian, EH54 9BU  
Tel: 01506 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

**BOSS TS3.004EMF**  
Electromagnetic Hold-Open Floor  
Springs

#### 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:  
Valid to:

27<sup>th</sup> September 2019  
18<sup>th</sup> October 2022



## CERTIFICATE No CF 5787 BOSS DOOR CONTROLS

### BOSS TS3.004EMF Electromagnetic Hold-Open Floor Springs

1. This approval applies to the BOSS TS3.004EMF electromagnetic hold-open floor spring door closer models. The approval applies to the following configurations:

	TS3.004EMF
Single-action	✓
Double-action	✓*
Electrically powered hold open	✓

**Key:** ✓ Approved    ✗ Not approved    ✓\* - ITT Doorsets only

*Note: Where alternative single-action accessories 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 60 minutes (Code ITT).**

**Single action only - latched and unlatched, insulated and uninsulated, door assemblies consisting of metal faced and edged leaves in metal frames and having a fire resistance up to 240 minutes (Code IMM/MM).**

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. 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).



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### BOSS DOOR CONTROLS

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#### BOSS TS3.004EMF Electromagnetic Hold-Open Floor Springs

5. This approval relates to the above floor springs used with latched or unlatched single-leaf or double-leaf, double-action door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores and in timber frames:
- a. FD30, E30 and EI30 applications – Single-action applications (Code ITT)
    - i. Door leaves shall not less than 54 mm thick doors.
    - ii. The door frame shall consist of timber no less than 44 mm thick with a minimum density of 640 kg/m<sup>3</sup>.
    - iii. The top pivot and top strap must be bedded on a 1.5 mm thick ISL graphite based intumescent sheet material to all faces of recess in both the frame head and top edge of the door,
    - iv. The bottom strap must be bedded on a 1.5 mm thick ISL graphite based intumescent sheet material to all faces of recess
  
  - b. FD30, E30 and EI30 applications – Double-action applications (Code ITT)
    - i. Door leaves shall not less than 54 mm thick doors.
    - ii. The door frame shall consist of timber no less than 44 mm thick with a minimum density of 640 kg/m<sup>3</sup>.
    - iii. The top pivot and top strap must be bedded on a 1 mm thick ISL graphite based intumescent sheet material to all faces of recess in both the frame head and top edge of the door,
    - iv. The bottom strap must be bedded on a 1 mm thick ISL graphite based intumescent sheet material to all faces of recess
  
  - c. FD60, E60 and EI60 applications – Single-action applications (Code ITT)
    - i. Door leaves shall not less than 54 mm thick doors.
    - ii. The door leaves shall incorporate non-combustible sub-faces with a minimum thickness of 5 mm both sides.
    - iii. The door frame shall consist of timber no less than 44 mm thick with a minimum density of 640 kg/m<sup>3</sup>.
    - iv. The top pivot and top strap must be bedded on a 1.5 mm thick ISL graphite based intumescent sheet material to all faces of recess in both the frame head and top edge of the door,
    - v. The bottom strap must be bedded on a 1.5 mm thick ISL graphite based intumescent sheet material to all faces of recess

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### BOSS TS3.004EMF Electromagnetic Hold-Open Floor Springs

- d. FD60, E60 and E160 applications – Double-action applications (Code ITT)
- i. Door leaves shall not less than 54 mm thick doors.
  - ii. The door leaves shall incorporate non-combustible sub-faces with a minimum thickness of 5 mm both sides.
  - iii. The door frame shall consist of timber no less than 44 mm thick with a minimum density of 640 kg/m<sup>3</sup>.
  - iv. The top pivot and top strap must be bedded on a 1 mm thick ISL graphite based intumescent sheet material to all faces of recess in both the frame head and top edge of the door,
  - v. The bottom strap must be bedded on a 1 mm thick ISL graphite based intumescent sheet material to all faces of recess

*Note: Failure to install the intumescent protection will invalidate this certificate.*

6. This approval relates to the TS3.004EMF floor springs used with latched or unlatched single-leaf or double-leaf, single-action door assemblies consisting of insulated or uninsulated metal door assemblies in metal frames with or without intumescent seals having a fire resistance up to 240 minutes (Code IMM/MM):
- i. Door leaves shall have a minimum thickness of 45 mm for up to 240 minute applications.
  - ii. No additional intumescent protection is required.
7. The above floor springs and accessories may only be fitted to previously tested door assemblies when fitted in the manner described in this certificate and when particular aspects of the door assembly are maintained.
8. Accessories shall only be fitted using the fixings supplied by the floor spring manufacturer. Regard should be paid to the maximum door mass permitted to be used with the floor spring (see classifications).
9. The doorset shall be installed in accordance with BS 8214.
10. The approval relates to ongoing 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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### BOSS TS3.004EMF Electromagnetic Hold-Open Floor Springs

11. The following table shows acceptable doorsets types and fire resistance periods approved for all floor spring models:

Class	Approved Door Type				
	ITT	ITM	ITC	MM	IMM
FD20	✓	✗	✗	✓*	✓*
FD30	✓	✗	✗	✓*	✓*
FD60	✓	✗	✗	✓*	✓*
FD90	✗	✗	✗	✓*	✓*
FD120	✗	✗	✗	✓*	✓*
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
- ✓\* - Single-action MM/IMM doorsets only

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### BOSS TS3.004EMF Electromagnetic Hold-Open Floor Springs

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:

- The following accessories are specifically approved for use with the listed floor springs:

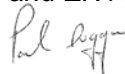
Reference	Description
X050	Cover plates.
X051	Single action fitting strap, 16mm.
X052	Single action fitting strap, 25mm
X053	Single action top centre, 16mm
X054	Single action top centre, 25mm
X055	Double action fitting strap.
X056	Double action top centre

#### Classification codes

The above approval provides the following classifications for the TS3.004EMF electromagnetic hold-open floor spring (double-action and single-action):

<b>3</b>	<b>8</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>3</b>
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*Note: power ratings shall be appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154 and EN1155).*





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### BOSS DOOR CONTROLS

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**BOSS TS3.004EMF Electromagnetic Hold-Open Floor Springs**

**Further Information**

Further information regarding the details contained in this certificate may be obtained from BOSS Door Controls Limited (Tel: 01506 467477).

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

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