



CERTIFICATE OF APPROVAL

No CF 5787

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:

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: 27th September 2019
Reissued : 18th November 2022
Valid to: 10th November 2027



CERTIFICATE No CF 5787 BOSS DOOR CONTROLS

BOSS TS3.004EMF Electromagnetic Hold-Open Floor Springs

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 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

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.

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

Single action and double action, 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, latched and unlatched, insulated and uninsulated, door assemblies consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames with or without intumescent seals having a fire resistance up to 240 minutes (Code IMM/MM).

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).

CERTIFICATE No CF 5787

BOSS DOOR CONTROLS

BOSS TS3.004EMF ELECTROMAGNETIC HOLD-OPEN FLOOR SPRINGS

5. This approval relates to the TS3.004EMF 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/m³.
 - 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/m³.
 - 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 frame shall consist of timber no less than 44 mm thick with a minimum density of 640 kg/m³.
 - 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

CERTIFICATE No CF 5787

BOSS DOOR CONTROLS

BOSS TS3.004EMF ELECTROMAGNETIC HOLD-OPEN FLOOR SPRINGS

- d. FD60, E60 and EI60 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/m³.
 - 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

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 predominantly steel door assemblies in steel 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. Certification of the floor spring is based upon the closer being mounted in concrete or being protected from below and on all sides by a material with an equivalent or better level of insulation than a 50 mm thick layer of normal concrete. Certification does not cover the use of the closer when insulated with less protection.
9. For ITT doorsets the 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).
10. ITT30 and 60 doorsets shall be installed in accordance with BS 8214.
11. 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.



CERTIFICATE No CF 5787 BOSS DOOR CONTROLS

BOSS TS3.004EMF ELECTROMAGNETIC HOLD-OPEN FLOOR SPRINGS

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

Class	Approved Door Type			
	MM	IMM	ITT	ITM
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
- ✓* - TS3.004EMF for use on single-action doorsets only

CERTIFICATE No CF 5787 BOSS DOOR CONTROLS

BOSS TS3.004EMF ELECTROMAGNETIC HOLD-OPEN FLOOR SPRINGS

13. Doors are classified as the following types:

Code ITT - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral cores, hung in timber-based frames.

Code ITM - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral cores, hung in steel frames.

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

Code IMM - 20 to 240 minute doorsets consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames with intumescent seals.

Scope of Approval:

- The floor springs may not be fitted to timber doorsets without perimeter intumescent fire seals.
- The closer application is as referenced in the Classification code section below in accordance with EN 1154.
- The floor spring closers are only approved in single action configuration when fitted to MM/IMM doorsets.
- The floor spring closers are approved in single action and double action configuration when fitted to ITT doorsets.
- The mortises provided to the door leaf and frame of ITT doorsets for the installation of the floor spring's pivot accessories shall be provided with ISL graphite based intumescent sheet material identified in section 5.
- Mechanical Hold open option is not approved
- The following functions are supported by this certification:

Closer Ref.	Latch Control	Backcheck	Delayed-Action
TS3.004EMF Single Action	✘	✘	✘
TS3.004EMF Double Action	✘	✘	✘

CERTIFICATE No CF 5787 BOSS DOOR CONTROLS

BOSS TS3.004EMF ELECTROMAGNETIC HOLD-OPEN FLOOR SPRINGS

Scope of Approval – Cont'd:

- 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:

TS3.004EMF Floor Spring (double action and single action):

3	8	4	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 and EN1155).

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).