



CERTIFICATE OF APPROVAL

No CF 155

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

ASSA ABLOY LIMITED

School Street, Willenhall, WV13 3PW
Tel: 01902 907968

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
EXIDOR 990, 3470 and 2950
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: 15th October 1997
Revised: 30th May 2023
Valid to: 17th November 2027

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EXIDOR 990, 2950 & 3470 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 EXIDOR 990, 2950 and 3470 floor spring door closer models. The approval applies to the following configurations:

	990	2950	3470
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: -

Code ITT - 20 minute to 60 minute - All models for use with single action and double action, latched and unlatched 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 minute to 240 minute – All models for use with single action, latched and unlatched door assemblies consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames with or without intumescent seals (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).



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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 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



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- 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 above 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. All door hardware is subject to the acceptance by the chosen door assembly supplier's tested, assessed or certificated scope, which generally identifies the types of hardware approved, the required specification/design based on the key materials/ maximum size (e.g. configuration, strap size, fixing specification, etc.), and the application of any additional intumescent protection.

On this basis approval should be sought from the specific door assembly supplier to ensure compliance based on this assessed/certificated scope.



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11. ITT30 and 60 doorsets shall be installed in accordance with BS 8214.
12. 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.
13. The following table shows acceptable doorsets types and fire resistance periods approved for all floor spring models:

	Approved Door Type			
Class	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
- ✓* - for use on single-action doorsets only



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14. Doors are classified 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 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
990 Single Action	x	x	x
990 Double Action	x	x	x
2950 Single Action	x	x	x
2950 Double Action	x	x	x
3470 Single Action	x	x	x
3470 Double Action	x	x	x



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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:

990 Floor Spring (double action and single action):

3	8	6-1	1	1	3
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2950 Floor Spring (double action and single action):

3	8	4-1	1	1	3
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3470 Floor Spring (double action and single action):

3	8	4	1	1	3
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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).

Further Information

Further information regarding the details contained in this certificate may be obtained from ASSA ABLOY LIMITED (Tel: 01902 907968).

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

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