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## CERTIFICATE OF APPROVAL

### No CF 155

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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

## EXIDOR LIMITED

Progress Drive, Cannock, Staffordshire WS11 0JE  
Tel: 0121 568 2112 Fax: 0121 568 2131

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

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 Exova (UK) Limited trading as  
Warrington Certification



Paul Duggan  
Certification Manager



Issued: 15<sup>th</sup> October 1997  
Reissued: 19<sup>th</sup> October 2017  
Valid to: 18<sup>th</sup> October 2022

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#### EXIDOR 990, 3470 AND 2950 FLOOR SPRINGS

1. This approval applies to the EXIDOR 3470, 990 and 2950 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.*

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

**All models for use with 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).**

**2950 and 3470 models only for use with single action 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 designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), the Technical Handbooks (Scotland) and Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.
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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#### EXIDOR 990, 3470 AND 2950 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 E130 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 E130 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 E160 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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- 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 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 3470 and 2950 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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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
- ✓\* - 3470 & 2950 only for use on single-action doorsets only

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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 sue 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 only):

<b>3</b>	<b>8</b>	<b>6-1</b>	<b>1</b>	<b>1</b>	<b>3</b>
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**EXIDOR 990, 3470 AND 2950 FLOOR SPRINGS**

**Classification codes - continued**

3470 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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2950 Floor Spring (double-action and single-action):

<b>3</b>	<b>8</b>	<b>4-1</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).*

**Further Information**

Further information regarding the details contained in this certificate may be obtained from EXIDOR LIMITED (Tel: 0121 568 2112).

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