



CERTIFICATE OF APPROVAL

No CF 253

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

ALLGOOD PLC

63-83 Brearley Street, Birmingham, B19 3NT
Tel: 0121 359 4415

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

Floor Spring Models
9231, 9247 and 9431

TECHNICAL SCHEDULE

TS34 - The Contribution of
Controlled Door Closing Devices

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan
Certification Manager



Issued: 31st October 2017
Revised: 7th October 2019
Valid to: 30th October 2022





CERTIFICATE No CF 253 ALLGOOD PLC

FLOOR SPRING MODELS 9231, 9247 and 9431 ELECTROMAGNETIC FLOOR SPRING

1. This approval applies to the Allgood 9431, 9231 and 9247 floor spring door closer models. The approval applies to the following configurations:

	9231	9247	9431
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).

9247 and 9431 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 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).

Signed
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5. This approval relates to the above floor springs used with latched or unlatched single-leaf or double-leaf, single-action and double-action door assemblies as applicable, 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 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/m³.
 - 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/m³.
 - 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 9431 and 9247 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
- ✓* - 9431 & 9247 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
9231C	Cover plates.
9231SBS6	Single action fitting strap, 16mm.
9231SBS5	Single action fitting strap, 25mm
9231STC6	Single action top centre, 16mm
9231STC5	Single action top centre, 25mm
9231DBS	Double action fitting strap.
9231DTC	Double action top centre

Classification codes

The above approval provides the following classifications:

9231 Floor Spring (double-action only):

3	8	6-1	1	1	3
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FLOOR SPRING MODELS 9231, 9247 AND 9431 ELECTROMAGNETIC FLOOR SPRING

Classification codes - continued

9431 Floor Spring (double-action and single-action):

3	8	4	1	1	3
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9247 Floor Spring (double-action and single-action):

3	8	4-1	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 Allgood PLC (Tel: 0121 359 4415).

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

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