
CERTIFICATE OF APPROVAL

No CF 5504

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

CONSORT ARCHITECTURAL HADWARE LTD

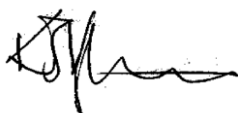
29-31 Lower Loveday Street, Birmingham,
B19 3SB, United Kingdom
Tel: 0121 359 8189

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
CFS543 and CFS544 Double-
Action Floor Springs

TECHNICAL SCHEDULE
TS 34 - 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



Sir Ken Knight
Chairman
Impartiality Committee



Paul Duggan
Certification Manager



Issued: 27th February 2017
Valid to: 26th February 2022

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CONSORT ARCHITECTURAL HARDWARE LTD

Consort CFS543 & CFS544 Floor Springs

1. This approval applies to Consort double-action floor spring models CFS543 & CFS544, but excludes any mechanical hold open variants. The approval applies to the following configurations:

	CFS543	CFS544
Single-action	✘	✘
Double-action	✓	✓

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 its 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 (CERTIFIRE Code ITT).

Latched and unlatched, 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).

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. The closer is approved on the basis of:
- Initial type testing to EN1154 and BS EN 1634-1.
 - An appraisal against TS34
 - Inspection of quality management system
 - Inspection and surveillance of factory production control
 - Ongoing audit testing in accordance with EN 1154 requirements

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5. 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).
6. This approval relates to the above hinges 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 (Code ITT)
 - i. Door leaves shall not less than 44 mm thick doors.
 - ii. The door frame shall consist of timber no less than 44 mm thick with a minimum density of 510 kg/m³.
 - iii. The top pivot must be bedded on a 2 mm thickness of mono ammonium phosphate intumescent 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 minimum of 2 mm thickness of mono ammonium phosphate intumescent material to all faces of recess
 - b. FD60, E60 and EI60 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 must be bedded on a 3 mm thickness of mono ammonium phosphate intumescent material to all faces of recess in both the frame head and top edge of the door, with a minimum of 5 mm of perimeter intumescent by-passing the pivots on both sides, in either the top edge of the door or frame head.
 - iv. The bottom strap must be bedded on a minimum of 2 mm thickness of mono ammonium phosphate intumescent material to all faces of recess

Failure to install the intumescent protection will invalidate this certificate.

7. This approval relates to the above hinges used with latched or unlatched single-leaf or double-leaf, double-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 44 mm for up to 240 minute applications.
 - ii. No additional intumescent protection is required.

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8. 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.
9. 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. The doorset 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.

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12. The following table show acceptable doorset types and fire resistance periods:

Class	Approved Door Type				
	IMM	MM	ITT	ITM	ITC
FD20	✓	✓	✓	✗	✗
FD30	✓	✓	✓	✗	✗
FD60	✓	✓	✓	✗	✗
FD90	✓	✓	✗	✗	✗
FD120	✓	✓	✗	✗	✗
FD240	✓	✓	✗	✗	✗
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

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13. 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.

Classification codes:

The closer application is as referenced in the Classification code section below in accordance with EN 1154.

CFS543 double-action applications

4	8	3	1	1	3
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CFS544 double-action application

3	8	4	1	1	3
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Further Information

Further information regarding the details contained in this certificate may be obtained from Consort Architectural Hardware Ltd (Tel: 0121 359 8189).

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

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J/075

Two handwritten signatures in black ink, one appearing to be "Paul" and the other "Lynn".

Issued: 27th February 2017
Valid to: 26th February 2022