
CERTIFICATE OF APPROVAL

No CF 5508

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

CONSORT ARCHITECTURAL HARDWARE LTD

29-31 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:

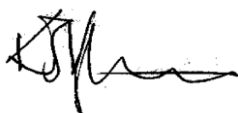
CERTIFIED PRODUCT

CDCC3 Concealed Door Closers

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: 10th March 2017
Revised: 30th June 2017
Next audit test due: 10/03/2018
Frequency: Annually
Valid to: 9th March 2022

Page 1 of 7



CERTIFICATE No CF 5508

CONSORT ARCHITECTURAL HARDWARE LTD

Consort CDCC3 concealed overhead cam action door closer

1. This approval applies to Consort CAM action overhead door closer model CDCC3 concealed overhead cam action door closer, but excludes any mechanical hold open variants. The approval applies to the following configurations:

	CDCC3
Single-action	✓
Double-action	✗
Body door mounted in top edge	✓
Body transom mounted	✗

Key: ✓ - approved ✗ - Not approved

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

Latched and unlatched, single-acting, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames having a fire resistance of up to 60 minutes (Code ITT).

Latched and unlatched, single-acting, intumescent sealed door assemblies consisting of timber faced and edged leaves mineral cores in mineral core frames having a fire resistance of 90 or 120 minutes (Code ITT).

Latched and unlatched, door assemblies consisting of uninsulated or insulated metal door assemblies in metal frames with or without intumescent seals having a fire resistance up to 240 minutes (Code IMM/MM).

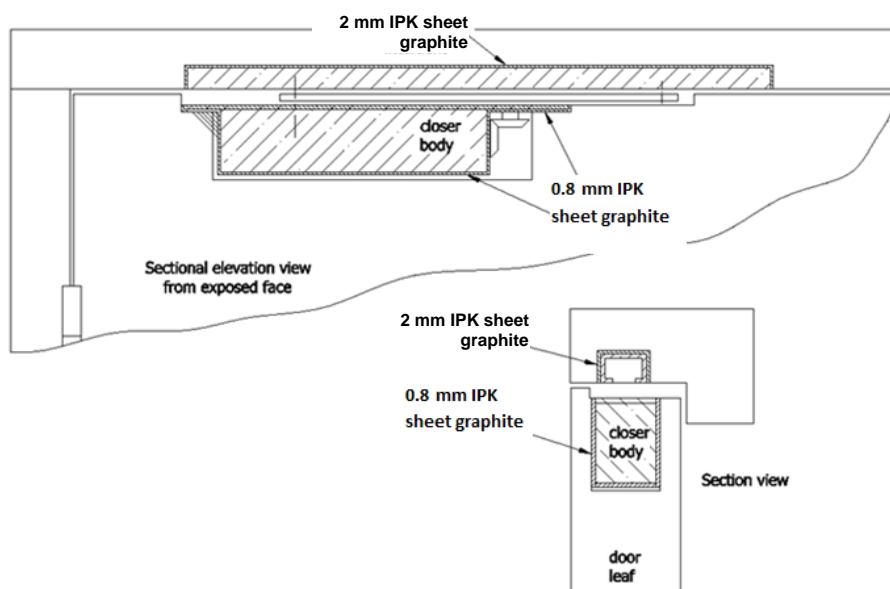
3. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), the Technical Handbooks (Scotland) and Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional 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: 2000
 - 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

CERTIFICATE No CF 5508

CONSORT ARCHITECTURAL HARDWARE LTD

Consort CDCC3 concealed overhead cam action door closer

5. This approval is applicable only to the specified closer when mounted with its body concealed within the door leaf and its guide arm channel mounted to the head of the door frame, when fitted with the specified intumescent protection kit and used with ITT 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, assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores and in timber frames:
- a. FD30, E30 and E130 applications (Code ITT)
 - i. Door leaves shall not less than 44 mm thick doors.
 - ii. The door frame shall consist of timber with a minimum density of 510 kg/m³.
 - iii. The closer shall be fitted with intumescent protection in the form of 0.8 mm thick IPK sheet graphite material fully lining the mortices cut into the top edge of the door leaf to accommodate the closer body, and 2 mm thick IPK sheet graphite material fully lining the mortices cut into the frame head member to accommodate the closer body the guide channel assembly, as shown below:

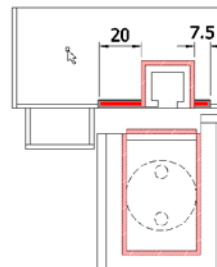


CERTIFICATE No CF 5508

CONSORT ARCHITECTURAL HARDWARE LTD

Consort CDCC3 concealed overhead cam action door closer

- b. FD60, E60 and EI60 applications (Code ITT)
- Door leaves shall not less than 54 mm thick doors.
 - The door frame shall consist of timber with a minimum density of 640 kg/m³.
 - The closer shall be fitted with intumescent protection in the form of 0.8 mm thick IPK sheet graphite material fully lining the mortices cut into the top edge of the door leaf to accommodate the closer body, and 2 mm thick IPK sheet graphite material fully lining the mortices cut into the frame head member to accommodate the closer body the guide channel assembly, as shown on page 3:
- c. FD90, EI90, FD120, E120 and EI120 applications (Code ITT)
- Mineral-cored door leaves having a minimum overall thickness of 60 mm, and a minimum mineral core/stile thickness of 52 mm.
 - The frame shall be of a mineral cored construction, with a minimum density of 1000kg/m³, and having minimum dimensions of 47 mm thick by 100 mm wide, with maximum 4 mm MDF or hardwood facings to all sides. The frame shall incorporate a mineral-cored planted doorstop of minimum dimensions 32 mm wide by 19 mm thick and a minimum density of 1000kg/m³, wide with maximum 4 mm MDF or hardwood facings to all sides.
 - The closer shall be fitted with the following intumescent protection (see detail on page 5):
 - 2 mm thick IPK sheet graphite material fully lining the mortices cut into the top edge of the door leaf to accommodate the closer body.
 - 2 mm thick IPK sheet graphite material shall fully lining the mortices cut into the frame head member to accommodate the closer body the guide channel assembly:
 - 2 mm thick IPK graphite intumescent sheet incorporated across the whole surface of the top face of the closer, beneath the arm.
 - In addition, for 90 minute and 120 minute applications, the perimeter intumescent fire seals in the head of the frame shall by-pass the slide-arm channel and graphite cladding by a minimum of 7.5 mm on the opening side and 20 mm on the stop side

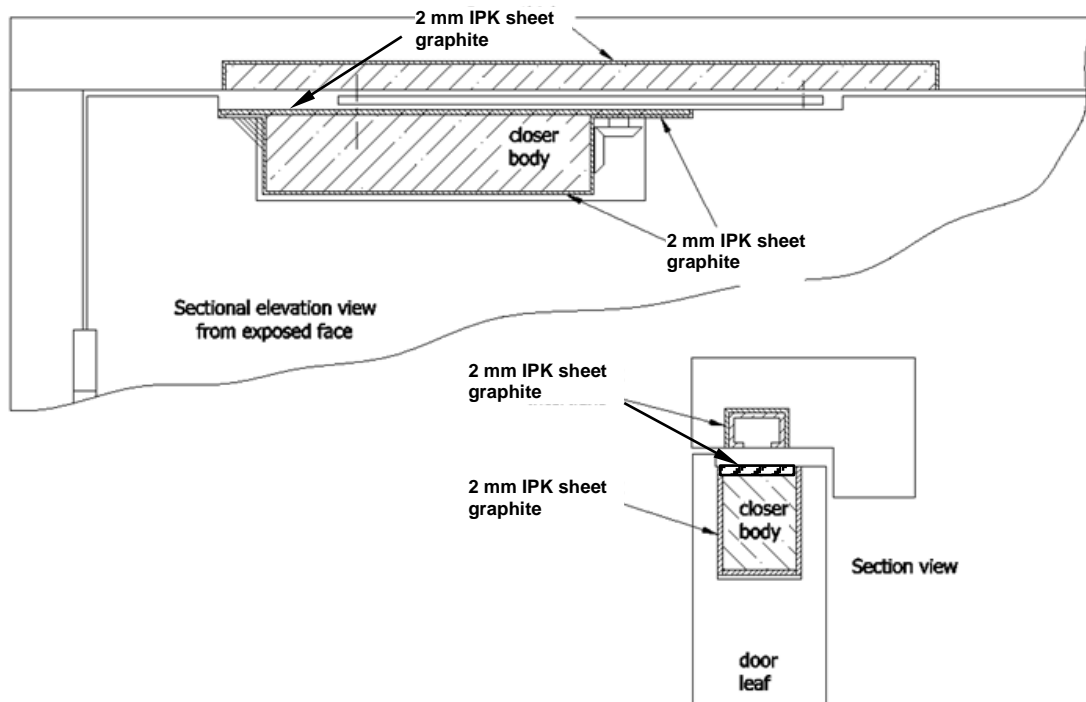


CERTIFICATE No CF 5508

CONSORT ARCHITECTURAL HARDWARE LTD

Consort CDCC3 concealed overhead cam action door closer

c. FD90, EI90, FD120, E120 and EI120 applications (Code ITT) - Continued



Failure to install the intumescent protection will invalidate this certificate.

- d. uninsulated or insulated Steel doorset up to 240 minutes (Code MM/IMM)
 - v. Door leaves shall have a minimum thickness of 44 mm for up to 240 minute applications.
 - vi. No additional intumescent protection is required.
- 7. The closer shall only be fitted to doorsets which have previously been shown capable of accommodating the installation of similar concealed items at the head of the doorset, without detriment to the doorset's performance.
- 8. 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.

Page 5 of 7 Signed
J/010



Issued: 10th March 2017
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CERTIFICATE No CF 5508

CONSORT ARCHITECTURAL HARDWARE LTD

Consort CDCC3 concealed overhead cam action door closer

9. 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

CERTIFICATE No CF 5508

CONSORT ARCHITECTURAL HARDWARE LTD

Consort CDCC3 concealed overhead cam action door closer

10. 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 closer is to be used in conjunction with the following guide rails:

- ITT 30 and 60 minutes, and MM/IMM up to 240 minutes door assemblies shall incorporate a 29 mm wide x 19 mm deep aluminium guide rail only.
- ITT 90 and 120 minutes door assemblies shall incorporate a 21 mm wide x 14 mm deep aluminium non-hold open guide rail I only.

Classification codes:

CDCC3 concealed single-acting applications

3	8	3	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).

Page 7 of 7 Signed
J/010



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