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## CERTIFICATE OF APPROVAL

### No CF 5095

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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

## ASSA ABLOY

School Street, Willenhall, West Midlands WV13 3PW

Tel: 0845 223 2124

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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

DC840A and DC860A Concealed  
Overhead Door Closing Devices

#### 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: 6<sup>th</sup> March 2013  
Reissued: 7<sup>th</sup> March 2018  
Valid to: 6<sup>th</sup> March 2023

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## CERTIFICATE No CF 5095 ASSA ABLOY

### DC840A & DC860A CONCEALED OVERHEAD DOOR CLOSERS

1. This approval applies to the ASSA ABLOY CAM action, slide arm closers. This approval relates to the following overhead mounted door closing devices and configurations:

	<i>DC840A with DC892 guide rails</i>	<i>DC860A with DC892 guide rails</i>	<i>DC840A and DC860A with G880 Guide Rail</i>
Single-action	✓	✓	✓
Double-action	✗	✗	✗
Body door mounted in top edge	✓	✓	✓
Body transom mounted	✗	✗	✗

**Key:** ✓ - approved                      ✗ - Not approved

*Note: Where alternative arms 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 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.
3. This approval relates to their use with the following door assemblies:-

**DC840A only with standard or G880 guide rails - 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 30 minutes (Code ITT).**

**DC840A, DC860A and DC860A with standard or G880 guide rails - 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).**

**DC840A and DC860A with standard guide rails only - 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).**

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#### DC840A & DC860A CONCEALED OVERHEAD DOOR CLOSERS

4. The closers are approved on the basis of:
  - i) Initial type testing to EN1154, EN1155 and BS EN 1634-1: 2000
  - ii) An appraisal against TS34
  - iii) Inspection of quality management system
  - iv) Inspection and surveillance of factory production control
  - v) Ongoing audit testing in accordance with EN 1154 requirements
  
5. This approval is applicable only to the specified closers mounted in standard door mount application only, used with door assemblies of proven fire resistance (as defined in EN 1634-1) and having power ratings appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154).
  
6. The closers shall be fixed with screws supplied by the closer manufacturer.
  
7. Concealed closers 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. This approval relates to concealed overhead closers 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. DC840A only with DC892 or G880 guide rails - The bodies mounted in the door leaf, are approved for 30 minute single-action doorsets of the following specification (Code ITT):
    - i. Door leaves shall not less than 44 mm thick.
    - ii. The door frame shall consist of softwood or hardwood with a minimum density of 510 kg/m<sup>3</sup>.
    - iii. Frame heads shall be a minimum thickness (excluding stops) of 32 mm for the DC892 guide rail and 50 mm thick for the G880 guide rail.
    - iv. The closer shall be fitted with intumescent protection in the form of a minimum of:
      - 2 mm thickness of mono ammonium phosphate sheet material, fully lining the mortices cut into the top edge of the door leaf to accommodate the closer body and faceplate assembly
      - 2 mm thickness of mono ammonium phosphate sheet material, fully lining the mortices cut into the within the frame head member to accommodate the guide channel assembly.

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- b. DC840A and DC860A with DC892 or G880 guide rails - The bodies mounted in the door leaf, are approved for 60 minute single-action doorsets of the following specification (Code ITT):
- i. Door leaves shall not less than 54 mm thick.
  - ii. The door frame shall consist of hardwood with a minimum density of 640 kg/m<sup>3</sup>.
  - iii. Frame heads shall be a minimum thickness (excluding stops) of 32 mm for the DC892 guide rail and 50 mm thick for the G880 guide rail.
  - iv. The closer shall be fitted with intumescent protection in the form of a minimum of:
    - 2 mm thickness of mono ammonium phosphate sheet material, fully lining the mortices cut into the top edge of the door leaf to accommodate the closer body and faceplate assembly
    - 2 mm thickness of mono ammonium phosphate sheet material, fully lining the mortices cut into the within the frame head member to accommodate the guide channel assembly.
  - v. In addition the perimeter intumescent fire seals within the door or frame shall by-pass the guide rail by a minimum of 4mm on each side.
- c. DC840A and DC860A with DC892 or G880 guide rails - The bodies mounted in the door leaf, are approved for up to 240 minute single-action and doorsets of the following specification (Code MM/IMM):
- i. Door leaves shall not less than 44 mm thick (or as required to accommodate the closer bod.
  - ii. No additional intumescent protection is required
9. The approval relates to ongoing production. The 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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### DC840A & DC860A CONCEALED OVERHEAD DOOR CLOSERS

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

Class	Approved Door Type				
	IMM	MM	ITT	ITM	ITC
FD20	✓**	✓**	✓*	✗	✗
FD30	✓**	✓**	✓*	✗	✗
FD60	✓**	✓**	✓	✗	✗
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

\* DC840A model only with DC892 or G880 guide rails (The DC860A is only approved for installation into 54 mm thick, ITT 60 minute rated doors).

\*\* Excludes the G880 electromechanical hold open guide rail

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### DC840A & DC860A CONCEALED OVERHEAD DOOR CLOSERS

11. 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 closers may not be fitted to ITT timber/mineral-based doorsets without leaf/frame edge intumescent protection.
- Concealed overhead closers and their guide channel shall only be fitted in ITT doorsets in conjunction with the intumescent protection detailed previously in this certificate.
- Concealed overhead closers shall only be fitted to ITT 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.
- Mechanical Hold open option is not approved
- The DC860A shall not be fitted to ITT 30 minute doorsets.
- The DC892 (440 mm long x 20 mm wide x 12 mm deep) standard guide rail channels are approved for use on all configurations:
- The G880 (493 mm x 26 mm wide x 30 mm deep) electromechanical hold open slide channel is approved for use on ITT 30 and 60 configurations only.
  - The G880 shall not be used in conjunction with MM/IMM steel-based doorsets.

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### DC840A & DC860A CONCEALED OVERHEAD DOOR CLOSERS

**Classification codes:**

DC840A to EN1154 in standard door mount application only and fitted in conjunction with G892 or G893 slide channels:

3	8	1 4	1	1	3
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DC860A to EN1154 in standard door mount application only and fitted in conjunction with G892 or G893 slide channels:

3	8	1 5	1	1	2
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DC840A to EN1155 in standard door mount application only, and fitted in conjunction with a G880 electromechanical hold open slide channel:

3	8	3 4	1	1	0
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DC860A to EN1155 in standard door mount application only, and fitted in conjunction with a G880 electromechanical hold open slide channel:

3	8	3 5	1	1	0
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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).*

**Further information**

Further information regarding the details contained in this data sheet may be obtained from ASSA ABLOY (Tel: 0845 223 2124).

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

