
CERTIFICATE OF APPROVAL

No CF 5293

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

SYNERGY HARDWARE LIMITED

Unit 2 Heath Mill Business Centre, Heath Mill Road,
Wombourne, Wolverhampton, WV5 8AP
Tel: 01902 893725

Have been assessed against the requirements of the Technical Schedule(s)
denoted below and are approved for use subject to the conditions
appended hereto:

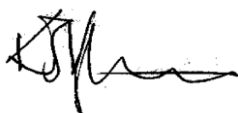
CERTIFIED PRODUCT

Synergy S1000 Concealed Door
Closer

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: 25th September 2015
Reissued: 1st November 2016
Valid to: 31st October 2021

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SYNERGY HARDWARE LIMITED

SYNERGY S1000 CONCEALED OVERHEAD DOOR CLOSER

1. This approval applies to the Synergy S1000 concealed overhead cam action door closer model but excludes any mechanical hold open variants.
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 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 of 30 minutes (Code ITT).

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 of 60 minutes (Code ITT).

4. The closer is approved on the basis of:
 - i) Initial type testing to BS EN 1154 and BS EN 1634-1
 - ii) An appraisal against TS34
 - iii) Certification of quality management system.
 - iv) Inspection and surveillance of factory production control
 - v) On-going audit testing in accordance with EN 1154 requirements
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 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. The closer shall be fitted with intumescent protection in the form of 2 mm thick Interdens sheet material fully lining the mortices cut into the head of the door leaf and top frame member to accommodate the closer body and guide channel assembly. Synergy Hardware Limited provides an intumescent kit referenced S1000.INT for this purpose. Additionally for 60 minute applications the perimeter intumescent within the head of the frame shall by-pass the slide-arm channel/Interdens liner by a minimum of 5 mm either side. Failure to install this intumescent protection in the appropriate manner will invalidate this approval.

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7. The approval relates to on-going production. The product and/or its immediate packaging are 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.
8. The following table show acceptable doorset types and fire resistance periods:

| Class | Approved Door Type | | | | |
|--------|--------------------|----|-----|-----|-----|
| | IMM | MM | ITT | ITM | ITC |
| FD20 | x | x | x | x | x |
| FD30 | x | x | ✓ | x | x |
| FD60 | x | x | ✓ | x | x |
| FD90 | x | x | x | x | x |
| FD120 | x | x | x | x | x |
| FD240 | x | x | x | x | x |
| E 20 | x | x | x | x | x |
| EI 20 | x | x | x | x | x |
| E 30 | x | x | ✓ | x | x |
| EI 30 | x | x | ✓ | x | x |
| E 60 | x | x | ✓ | x | x |
| EI 60 | x | x | ✓ | x | x |
| E 90 | x | x | x | x | x |
| EI 90 | x | x | x | x | x |
| E 120 | x | x | x | x | x |
| EI 120 | x | x | x | x | x |
| E 240 | x | x | x | x | x |
| EI 240 | x | x | x | x | x |

Key:

- ✓ - approved
x - Not approved

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9. 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 may not be fitted to fire doorsets without intumescent protection.
- The closer and its guide channel shall only be fitted in conjunction with the intumescent protection detailed previously in this certificate.
- 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 doorsets performance.
- 30 minute doorsets shall incorporate a door leaf having a minimum thickness of 44 mm and shall incorporate a door frame having a minimum density of 450 kg/m³.
- 60 minute doorsets shall incorporate a timber door leaf having a minimum thickness of 54 mm and shall incorporate a hardwood door frame having a minimum density of 640 kg/m³.
- Additionally for 60 minute applications the perimeter intumescent within the head of the frame shall by-pass the slide-arm channel/Interdens liner by a minimum of 5 mm either side.



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Classification codes:

Standard door mount application only.

| | | | | | |
|---|---|--------|---|---|---|
| 3 | 8 | 4 3 | 1 | 1 | 3 |
|---|---|--------|---|---|---|

Further Information

Further information regarding the details contained in this certificate may be obtained from Synergy Hardware Limited (Tel: 01902 893725).

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

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