
CERTIFICATE OF APPROVAL

No CF 5294

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 S100, S150, S300, S500,
S600, S700, S800 and S900
Surface Mounted Overhead 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



Paul Duggan
Certification Manager



Issued:
Revised:
Valid to:

29th September 2015
22nd November 2017
6th December 2021

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SYNERGY OVERHEAD DOOR CLOSERS

1. This approval applies to the Synergy rack and pinion overhead door closer models, but excludes any mechanical hold open variants. The approval applies to the following models and configurations:

	Link-arms			Slide arms			
	Projecting arm (Fig. 1) <i>Body door mounted on pull face</i>	Projecting arm (Fig. 61) <i>Body transom mounted on push face</i>	Parallel arm (Fig. 6) <i>Body door mounted on push face</i>	Body door mounted on pull face	Body transom mounted on push face	Body door mounted on push face	Body transom mounted on pull face
S100	✓	✗	✓	✗	✗	✗	✗
S150	✓	✗	✓	✗	✗	✗	✗
S300	✓	✗	✓	✗	✗	✗	✗
S500	✓	✗	✓	✗	✗	✗	✗
S600	✓	✗	✓	✗	✗	✗	✗
S700	✗	✗	✗	✓	✗	✗	✓
S800	✓	✗	✓	✗	✗	✗	✗
S900	✓	✗	✓	✗	✗	✗	✗

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: -

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 up to 120 minutes (Code ITT).

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4. The closers are 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 closers when mounted in the applications stated later 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. The closers shall be fixed with screws supplied by the closer manufacturer. Bolt-through fixings shall not be used.
7. Where the closers are fitted to door leaves or frames that are manufactured from mineral composite-based materials, or low-density cellulosic-based material, the door assembly shall have previously been shown capable of accommodating the installation of closers at the head of the doorset, without detriment to the door assembly's performance.
8. 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.

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9. 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
FD30	x	x	✓	x	x
FD60	x	x	✓	x	x
FD90	x	x	✓	x	x
FD120	x	x	✓	x	x
FD240	x	x	x	x	x
E 20	x	x	✓	x	x
EI 20	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
EI 90	x	x	✓	x	x
E 120	x	x	✓	x	x
EI 120	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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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:

- All applications apply to unglazed doorsets and glazed doorsets incorporating an uninsulated glass panel size of less than 20% of the leaf area.
- Standard arm brackets only are approved.
- Hold open option is not approved.
- The closer may not be fitted to timber doorsets without intumescent protection.
- The closer application is as referenced in the Classification code section below in accordance with EN 1154.

Classification codes:

S100 and S150 in Figure 1 projecting arm application:

3	8	4 2	1	1	3
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S100 and S150 in Figure 6 parallel arm application:

3	8	3	1	1	3
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Classification codes (continued):

S300 in Figure 1 projecting arm application:

3	8	4 2	1	1	3
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S300 in Figure 6 parallel arm application:

3	8	3	1	1	3
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S500 in Figure 1 projecting arm and Figure 6 parallel arm applications:

3	8	4 2	1	1	4
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S600 in Figure 1 projecting arm application:

4	8	4 2	1	1	3
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S600 in Figure 6 parallel arm application:

3	8	4 3	1	1	3
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S700 in slide arm body door mounted on pull face and transom mounted on pull face applications:

4	8	4 2	1	1	3
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Classification codes (continued):

S700 in slide arm body transom mounted on push face applications:

3	8	4 2	1	1	3
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S800 in Figure 1 projecting arm application:

4	8	5 2	1	1	4
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S800 in Figure 6 parallel arm application:

3	8	4 3	1	1	4
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S900 in Figure 1 projecting arm applications:

4	8	6 2	1	1	3
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S900 in Figure 6 parallel arm applications:

4	8	5 3	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).

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).