



CERTIFICATE OF APPROVAL

No CF 5312

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 CAM Action Door
Surface Mounted Overhead
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 Warringtonfire Testing and Certification Limited

Paul Duggan
Certification Manager



Issued: 25th September 2015
Revised: 4th February 2021
Valid to: 26th January 2022



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SYNERGY SURFACE MOUNTED OVERHEAD DOOR CLOSERS

1. This approval relates to the following overhead mounted door closing devices and configurations:

	TABLE 1						
	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
S3001	x	x	x	✓	✓	x	x
S3006	x	x	x	x	x	✓	✓
S3401	x	x	x	✓	✓	x	x
S3406	x	x	x	x	x	✓	✓
S3501	x	x	x	✓	✓	x	x
S3506	x	x	x	x	x	✓	✓
S3001.EHO	x	x	x	✓	x	x	x
S3006.EHO	x	x	x	x	x	✓	x
S3401.EHO	x	x	x	✓	x	x	x
S3406.EHO	x	x	x	x	x	✓	x
S3501.EHO	x	x	x	✓	x	x	x
S3506.EHO	x	x	x	x	x	✓	x

Key: ✓ - approved x - 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 provided to the client for their own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
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-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. Timber based doorset shall be installed in accordance with BS 8214.
9. 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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7. The following table show acceptable doorset types and fire resistance periods:

TABLE 2					
Approved Door Type					
Class	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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8. 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:

- Doors may not include uninsulated glass above 20% of their total area. Uninsulated glass shall not be included directly beneath the door closer body
- The closers may not be fitted to timber doorsets without perimeter intumescent fire seals to the frame rebate or door edge.
- Mechanical Hold open option is not approved
- The use of the S3406AB angle bracket is approved for use with 'body door mounted on push face' variants of the S3006, S3406 and S3506 closers.



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Scope of Approval Cont'd:

- The following functions are supported by this certification:

Closer Ref.	Application	Backcheck	Delayed-Action
S3001	All applications detailed in Table 1	No	No
S3006	All applications detailed in Table 1	No	No
S3401	All applications detailed in Table 1	Yes	No
S3406	All applications detailed in Table 1	Yes	No
S3501	All applications detailed in Table 1	Yes	Yes
S3506	All applications detailed in Table 1	Yes	Yes
S3001.EHO	Body door mounted on pull face	No	No
S3006.EHO	Body door mounted on push face	No	No
S3401.EHO	Body door mounted on pull face	Yes*	No
S3406.EHO	Body door mounted on push face	Yes*	No
S3501.EHO	Body door mounted on pull face	Yes*	Yes*
S3506.EHO	Body door mounted on push face	Yes*	Yes*

*Based on previous successful EN1154 testing

Classification codes:

S3001 (EN1154):

4	8	3	1	1	3
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S3401 (EN1154):

4	8	4 2	1	1	3
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S3501 (EN1154):

4	8	5 2	1	1	3
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S3006 (EN1154):

3	8	3	1	1	3
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Classification codes – Cont'd:

S3406 (EN1154):

3	8	4 2	1	1	3
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S3506 (EN1154):

3	8	5 2	1	1	3
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S3001.EHO and S3006.EHO (EN1155):

3	8	3	1	1	3
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S3401.EHO and S3406.EHO (EN1155):

3	8	4 2	1	1	3
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S3501.EHO and S3506.EHO (EN1155):

3	8	5 2	1	1	3
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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).