CERTIFICATE OF APPROVAL
No CF 6141

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

BOSS DOOR CONTROLS

3 & 4 Rutherford Square, Brucefield Industry Park,
Livingston, West Lothian, EH54 9BU, United Kingdom
Tel: 01506 467477 Fax: 01506 467478

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	TECHNICAL SCHEDULE
CAM action Surface Mounted Overhead and Concealed Overhead Closers	**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: 3rd August 2023
Audit Test Frequency: ***Yearly***
Valid to: 2nd August 2028

This certificate is the property of Warringtonfire Testing and Certification Limited
Registered in England and Wales
Registered Office: 3rd Floor, Davidson Building, 5 Southampton Street, London, WC2E 7HA. Company Registration No: 11371436

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BOSS DOOR CONTROLS

CAM action Surface Mounted Overhead and Concealed Overhead Closers

1. This approval applies to Boss CAM action surface mounted overhead door closer models:

	Link-arms			Slide arms			
	Projecting arm (Fig. 1) *Body door mounted on pull face*	Projecting arm (Fig. 61) *Body transom mounted on push face*	Parallel arm (Fig. 6) *Body door mounted on push face*	Body door mounted on pull face	Body transom mounted on push face	Body door mounted on push face	Body transom mounted on pull face
TS6-224	✘	✘	✘	✓	✘	✘	✘
TS6-225	✘	✘	✘	✓	✘	✘	✘

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 approval applies to Boss CAM action concealed overhead door closers, but excludes any mechanical hold open variants. The approval applies to the following models and configurations:

	ITS6-224	ITS6-225
Single-action	✓	✓
Double-action	✘	✘
Body door mounted in top edge	✓	✓
Body transom mounted	✘	✘

Key: ✓ - approved ✘ - Not approved

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

Surface Mounted Overhead Closers TS6-224 or TS6-225 - Latched and unlatched, door assemblies consisting of timber faced and edged leaves with timber or cellulosic cores and containing intumescent seals having a fire resistance up to 120 minutes (Codes ITT).

Concealed Overhead Closers ITS6-224 or ITS6-225 - Latched and unlatched, door assemblies consisting of timber faced and edged leaves with timber or cellulosic cores and containing intumescent seals having a fire resistance up to 60 minutes (Codes ITT).

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4. 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.

5. The closer is approved on the basis of:

   i) Initial type testing to EN1154 and BS EN 1634-1
   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

6. This approval is applicable only to the specified closers when mounted in the applications stated above and under the classification codes section of this certificate and used with door assemblies of proven fire resistance (as defined in BS EN 1634-1+A:2018 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).

7. An appraisal of the hardware variants detailed in this report is based upon product information supplied by the hardware manufacturer/supplier, which is retained in the confidential file relating to this report. Warringtonfire have not inspected the devices being appraised and cannot be held responsible for the accuracy of the information provided.

8. 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.

9. 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.

10. The closers shall be fixed with screws supplied by the closer manufacturer. Bolt-through fixings shall not be used.

11. All door hardware is subject to the acceptance by the chosen door assembly supplier's tested, assessed or certificated scope, which generally identifies the types of hardware approved; and the required specification/design based on the key materials/ maximum size, and the application of any additional intumescent protection.

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On this basis approval should be sought from the specific door assembly supplier to ensure compliance based on this assessed/certificated scope.

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12. This approval relates to the above concealed overhead closers used with latched or unlatched single-leaf or double-leaf, assemblies consisting of timber faced and edged leaves with timber or cellulosic cores and in timber frames:

    a. Concealed Overhead Closers ITS6-224 or ITS6-225 – FD20, E20, EI20, FD30, E30 and EI30 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 a minimum of:
            - 1 mm thickness of Interdens mono ammonium phosphate sheet material, fully lining the mortices cut into the top edge of the door leaf to accommodate the closer body assembly
            - 1 mm thickness of Interdens mono ammonium phosphate sheet material, fully lining the mortices cut into the within the frame head member to accommodate the guide channel assembly.

    b. Concealed Overhead Closers ITS6-224 or ITS6-225 - FD60, E60 and EI60 applications (Code ITT)
        i. Door leaves shall not less than 54 mm thick doors.
        ii. The door frame shall consist of timber with a minimum density of 640 kg/m³.
        iii. The closer shall be fitted with intumescent protection in the form of a minimum of:
            - 2 mm thickness of Interdens mono ammonium phosphate sheet material, fully lining the mortices cut into the top edge of the door leaf to accommodate the closer body assembly
            - 2 mm thickness of Interdens mono ammonium phosphate sheet material, fully lining the mortices cut into the within the frame head member to accommodate the guide channel assembly.

    Failure to install the intumescent protection will invalidate this certificate.

13. Timber based doorset shall be installed in accordance with BS 8214.

14. 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.

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15. The following table show acceptable doorset types and fire resistance periods for Surface Mounted Overhead Closers:

	Approved Door Type			
Class	**IMM**	**MM**	**ITT**	**ITM**
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	✗	✗	✗	✗

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16. The following table show acceptable doorset types and fire resistance periods for Concealed Overhead Closers:

	Approved Door Type			
Class	**IMM**	**MM**	**ITT**	**ITM**
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	✘	✘	✘	✘

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17. Doors are classified as the following types:

Code ITT - 20 minute to 120 minute door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in timber or cellulosic frames.

Code ITM - 20 minute to 120 minute door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in steel frames.

Code MM - 20 to 240 minute doorsets consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames without intumescent seals.

Code IMM - 20 to 240 minute doorsets consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames with intumescent seals.

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Scope of Approval:

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

- Only Surface Mounted Overhead Closers TS6-224 or TS6-225 are approved for use with ITT90 or ITT120 timber based doorsets.
- The slide-arm guiderails approved are 460 mm long x 29 mm wide x 19 mm deep
- Concealed overhead closers and their guide channel shall only be fitted in conjunction with the intumescent protection detailed previously in this certificate.
- Concealed overhead 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.
- Door leaves shall be of solid lignocellulosic construction in the closer area encompassing the entire closer body.
- Doors fitted with surface mounted overhead closers 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 following functions are supported by this certification:

Closer Ref.	Application	Latch Control	Backcheck	Delayed-Action
Surface Mounted Overhead Closer				
TS6-224	Slide arm (Body door mounted on pull face)	Yes	No	No
TS6-225	Slide arm (Body door mounted on pull face)	Yes	No	No
Concealed Overhead Closer				
ITS6-224	Body door mounted in top edge	Yes	No	No
ITS6-225	Body door mounted in top edge	Yes	No	No

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Classification codes:

Surface Mounted Overhead Closer TS6-224 in single-acting slide arm (Body door mounted on pull face applications:

3	8	4 2	1	1	3

Surface Mounted Overhead Closer TS6-225 in single-acting slide arm (Body door mounted on pull face applications:

3	8	5 2	1	1	3

Concealed Overhead Closer ITS6-224:

3	8	4 2	1	1	3

Concealed Overhead Closers ITS6-225:

3	8	5 2	1	1	3

Further Information

Further information regarding the details contained in this data sheet may be obtained from Boss Door Controls (Tel: 01506 467477).

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

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