



CERTIFICATE OF APPROVAL

No CF 689

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

BOSS DOOR CONTROLS

4 Rutherford Square, Brucefield Industry Park,
Livingston, West Lothian, EH54 9BU
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

TS5.225, TS5.224,
TS4.224, TS2.326 and
TS1.203 Overhead Door
Closers and TS3.003 &
TS3.004 Floor Springs

TECHNICAL SCHEDULE

TS34 - The Contribution of
Controlled Door Closing
Devices and Accessories to
Fire Resisting Doorsets

Signed and sealed for and on behalf of CERTIFIRE

Sir Ken Knight
Chairman - Management Council
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Issued: 21st May 2009
Revised: 2nd April 2012
Valid to: 20th May 2014



Only valid when authentic
CERTIFIRE Seal is in place



CERTIFICATE No. CF 689 BOSS DOOR CONTROLS

BOSS DOOR CLOSERS - TS5.225, TS5.224, TS4.224, TS2.326, TS1.203, TS3.003 & TS3.004

1. This approval relates to the use of Boss Door Controls TS5.225, TS5.224, TS4.224, TS2.326, TS1.203 closers which are overhead mounted door closing devices, and TS3.003 & TS3.004 floor mounted closers.
2. This certification is designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), Section 2 of the Technical Standards (Scotland), 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 up to 120* minutes (CERTIFIRE Code - ITT) as indicated in the individual model's approval matrix detailed later in this certificate.

Latched and unlatched, door assemblies consisting of metal faced and edged leaves in metal frames, with or without intumescent sealing, and having a fire resistance up to 240* minutes (Codes MM & IMM) as indicated in the individual model's approval matrix detailed later in this certificate.
4. The closers are approved on the basis of:
 - i) Initial type testing to EN1154 and BS EN 1634-1: 2000
 - ii) An appraisal against TS34
 - iii) Certification of quality management system to ISO 9001: 2008.
 - 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 used in the specific arm configuration or mounting arrangement as indicated in each model's approval matrix, 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. This approval does not cover models with a mechanical hold open facility.
7. The closers may only be fitted to previously tested door assemblies when fitted in the manner described in this certificate and when particular aspects of the door assembly are maintained.

* See individual model's approval matrix for exact coverage of approval, maximum fire resistance periods shown above do not apply to all models.

A handwritten signature in black ink, appearing to be 'K. J. ...'.



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BOSS DOOR CLOSERS - TS5.225, TS5.224, TS4.224, TS2.326, TS1.203, TS3.003 & TS3.004

8. The closers shall only be fitted using the fixings supplied by the closer manufacturer.
9. The doorset, including door frame and associated building hardware, should be either CERTIFIRE approved for the relevant application and classification or the doorset, including door frame and associated building hardware, should have achieved at least the required period of fire resistance when tested, or subsequently assessed to EN 1634-1: 2000. In either case regard should be paid to the maximum door mass permitted for use with the closer (see classifications).
10. The doorset shall be installed in accordance with BS 8214: 2008 where applicable.
11. 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.
12. The following tables show acceptable doorsets types and fire resistance periods:

Matrix of acceptable doorsets for TS5.225

Class	Approved Door Type						
	IMM	MM	TT	ITT	ITM	ITC	TM
FD20	✓	✓	x	✓	x	x	x
FD30	✓	✓	x	✓	x	x	x
FD60	✓	✓	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

The TS5.225 is approved for use in projecting arm (Figure 1) and parallel arm (Figure 6) applications.



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BOSS DOOR CLOSERS - TS5.225, TS5.224, TS4.224, TS2.326, TS1.203, TS3.003 & TS3.004

Matrix of acceptable doorsets for TS5.224

Class	Approved Door Type						
	IMM	MM	TT	ITT	ITM	ITC	TM
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	✓	✓	✗	✗	✗	✗	✗

The TS5.224 is approved for use in projecting arm (Figure 1) and parallel arm (Figure 6) applications.



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BOSS DOOR CLOSERS - TS5.225, TS5.224, TS4.224, TS2.326, TS1.203, TS3.003 & TS3.004

Matrix of acceptable doorsets for TS4.224

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

The TS4.224 is approved for use in projecting arm (Figure 1) and parallel arm (Figure 6) applications.



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BOSS DOOR CLOSERS - TS5.225, TS5.224, TS4.224, TS2.326, TS1.203, TS3.003 & TS3.004

Matrix of acceptable doorsets for TS2.326

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

The TS2.326 is approved for use in projecting arm (Figure 1) applications only.



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BOSS DOOR CLOSERS - TS5.225, TS5.224, TS4.224, TS2.326, TS1.203, TS3.003 & TS3.004

Matrix of acceptable doorsets for TS1.203

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

The TS1.203 is approved for use in projecting arm (Figure 1) applications only.



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BOSS DOOR CLOSERS - TS5.225, TS5.224, TS4.224, TS2.326, TS1.203, TS3.003 & TS3.004

Matrix of acceptable doorsets for TS3.003

Class	Approved Door Type						
	IMM	MM	TT	ITT	ITM	ITC	TM
FD20	✓	✓	x	✓	x	x	x
FD30	✓	✓	x	✓	x	x	x
FD60	✓	✓	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	x
EI 30	✓	✓	x	x	x	x	x
E 60	✓	✓	x	x	x	x	x
EI 60	✓	✓	x	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

The TS3.003 is approved for use in standard floor mount fixing application only.

Only to be fitted in single action configuration when fitted to MM/IMM based doorsets.

Only to be fitted in double action configuration when fitted to ITT based doorsets.



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BOSS DOOR CLOSERS - TS5.225, TS5.224, TS4.224, TS2.326, TS1.203, TS3.003 & TS3.004

Matrix of acceptable doorsets for TS3.004

Class	Approved Door Type						
	IMM	MM	TT	ITT	ITM	ITC	TM
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	✓	✓	✗	✗	✗	✗	✗

The TS3.004 is approved for use in standard floor mount fixing application only.
 Only to be fitted in single action configuration when fitted to MM/IMM based doorsets.
 Only to be fitted in double action configuration when fitted to ITT based doorsets.

Key:

- ✓ - approved
- ✗ - not approved

See CERTIFIRE Technical Schedules for designation of doorset types i.e. ITM etc.
 The closers can only be used in single-acting configuration.



CERTIFICATE No. CF 689 BOSS DOOR CONTROLS

BOSS DOOR CLOSERS - TS5.225, TS5.224, TS4.224, TS2.326, TS1.203, TS3.003 & TS3.004

Scope of Approval:

- All ITT applications apply to unglazed doorsets and glazed doorsets incorporating an uninsulated glass panel size of less than 20% of the leaf area.
- The closer application is as referenced in the Classification code section below in accordance with EN 1154.
- Floor spring closers TS3.003 and TS3.004, are only approved in single action configuration when fitted to MM/IMM doorsets.
- Floor spring closers TS3.003 and TS3.004 are only approved in double action configuration when fitted to ITT doorsets.

Classification codes - The approval provides the following classifications:

TS5.225 in projecting arm configuration (Figure 1)

4	8	5 3	1	1	3
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TS5.225 in parallel arm configuration (Figure 66)

3	8	5 3	1	1	3
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TS5.224 in projecting arm configuration (Figure 1)

4	8	4 3	1	1	3
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TS5.224 in parallel arm configuration (Figure 66)

4	8	4	1	1	3
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TS4.224 in projecting arm (Figure 1) and parallel arm (Figure 6) configurations

4	8	3	1	1	3
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BOSS DOOR CLOSERS - TS5.225, TS5.224, TS4.224, TS2.326, TS1.203, TS3.003 & TS3.004

TS2.326 in projecting arm configuration (Figure 1)

4	8	5 3	1	1	3
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TS1.203 in projecting arm configuration (Figure 1)

4	8	3	1	1	3
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TS3.003 in standard floor mount fixing application

3	8	3	1	1	3
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TS3.004 in standard floor mount fixing application

3	8	4	1	1	3
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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).