



CERTIFICATE OF APPROVAL

No CF 127

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

DORMA UK LIMITED

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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

**dormakaba BTS 75 V, BTS 75 R,
80 F, 80 EMB & 80 FLB Floor
Springs**

**dormakaba RTS 87, 87 H, 80 EMB
& 80 FLB Transom Mounted
Closers and Associated
Accessories**

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: 2nd April 1993
Reissued: 15th January 2021
Valid to: 14th January 2026



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dormakaba Floor Springs And Transom Mounted Closers And Accessories

1. This approval applies to dormakaba double-action floor spring and transom mounted closing devices, but excludes any mechanical hold open variants. The approval applies to the following configurations:

	<i>Floor Springs</i>				
	<i>BTS 75 V</i>	<i>BTS 75 R</i>	<i>BTS 80 F</i>	<i>BTS 80 EMB</i>	<i>BTS 80 FLB</i>
Single-action	✓	✓	✓	✓	✓
Double-action	✓	✓	✓	✓	✓

	<i>Transom Closers</i>			
	<i>RTS 87</i>	<i>RTS 87 H</i>	<i>RTS 80 EMB</i>	<i>RTS 80 FLB</i>
Single-action	✗	✗	✗	✗
Double-action	✓	✓	✓	✓

Key: ✓ - approved ✗ - Not approved

Note: Where alternative single-action accessories 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 its use with the following door assemblies: -

All Floor Springs - 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 20, 30 or 60 minutes (CERTIFIRE Code ITT).

All Transom Closers - 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 only (CERTIFIRE Code ITT).

All Floor Springs - Latched and unlatched, door assemblies consisting of insulated or uninsulated predominantly steel doors in steel frames with or without intumescent seals having a fire resistance up to 240 minutes (Code IMM/MM).



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4. The floor springs and transom closers are approved on the basis of:
- i) Initial type testing to EN1154 and BS EN 1634-1/BS 476: Part 22.
 - 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 floor springs used with door assemblies of proven fire resistance (as defined in BS 476: Part 22: 1987 or BS EN 1634-1 as applicable) and having power ratings appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154). The approval does not include mechanical hold open variants.
6. This approval relates to the above floor springs are used with latched or unlatched single-leaf or double-leaf, single-action or double-action door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores and in timber frames:
- a. FD30 applications (Code ITT)
 - i. Door leaves shall not less than 44 mm thick doors.
 - ii. The door frame shall consist of timber no less than 32 mm thick with a minimum density of 510 kg/m³.
 - iii. No additional intumescent protection is required at the top pivot or bottom strap in FD30 applications only
 - b. 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 no less than 32 mm thick with a minimum density of 510 kg/m³.
 - iii. The top pivot must be bedded on a 2 mm thickness of dormakaba intumescent material to all faces of recess in both the frame head and top edge of the door,
 - iv. The bottom strap must be bedded on a 2 mm thickness of dormakaba intumescent material to all faces of recess
 - c. 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 no less than 44 mm thick with a minimum density of 640 kg/m³.
 - iii. The top pivot must be bedded on a 2 mm thickness of dormakaba intumescent material to all faces of recess in both the frame head and top edge of the door
 - Additionally a minimum of 5 mm of perimeter intumescent fireseal by-passing the pivots on both sides, in either the top edge of the door or frame head.
 - iv. The bottom strap must be bedded on a 2 mm thickness of dormakaba intumescent material to all faces of recess

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7. This approval relates to the above transom mounted closers are used with latched or unlatched single-leaf or double-leaf, double-action door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores and in timber frames:
- a. FD60 applications (Code ITT)
 - i. The door leaf/frame shall have a minimum thickness of 54 mm and must be previously proven capable of accommodating a concealed closer or similar item within its head.
 - ii. Door leaves shall not less than 54 mm thick doors.
 - iii. The door frame shall consist of timber no less than 119 mm wide by 69 mm high with a minimum density of 640 kg/m.
 - iv. Doorsets shall include a 20 mm by 4 mm intumescent seal fitted centrally to the frame head member; the frame mounted seal will only be interrupted at the position of the closer
 - v. Additionally 2No. 15 mm by 4 mm intumescent seals to the top edge of the door leaf head; the seals shall be continuous across the head of the door and over the closer arm assembly.
 - vi. The mortises for the closer body and the arm assembly shall be fully lined with 2 mm thick graphite intumescent sheet. The closer cover plate shall also be bedded on to a 2 mm thickness of the same material between it and the door frame.
 - vii. The '7421' bottom strap shall be bedded onto a 2 mm thickness of the same graphite sheet material, or alternatively may be bedded with 1 mm thick mono ammonium phosphate intumescent sheet material.
- Note: Failure to install the intumescent protection identified for the floor springs and transom mounted closers will invalidate this certificate.
8. This approval also relates to the above floor springs only used with latched or unlatched single-leaf or double-leaf, single-action or double-action door assemblies consisting of insulated or uninsulated predominantly steel-based door assemblies in steel frames with or without intumescent seals having a fire resistance up to 240 minutes (Code IMM/MM):
- i. Door leaves shall have a minimum thickness of 45 mm for up to 240 minute applications.
 - ii. No additional intumescent protection is required.
9. The above floor springs, transom mounted closers and accessories 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.
10. Accessories shall only be fitted using the fixings supplied by the manufacturer.
11. Regard should be paid to the maximum door mass permitted to be used with the floor spring or transom closer (see classifications).



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12. The ITT doorset shall be installed in accordance with BS 8214.
13. 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.
14. Matrix of acceptable doorset types and fire resistance periods for all Floor Springs:

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

Key:

- ✓ - approved
✗ - Not approved

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15. Matrix of acceptable doorset types and fire resistance periods for all Transom Mounted Closers:

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

Key:

- ✓ - approved
x - Not approved



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16. Doors are classified as the following types:

Code ITT - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral cores, hung in timber-based frames.

Code ITM - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral cores, hung in steel frames.

Code ITC - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral cores, hung in proprietary composite frames, of which the principal material is other than timber or metal but which may include any other materials.

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.

Scope of Approval:

- The floor springs and transom closers shall not be fitted to timber doorsets without perimeter intumescent fire seals within the frame or door edge.
- The transom closers are approved for use in FD60 double-action application only.
- The intumescent sheet material shall be as supplied by DORMA.
- Mechanical Hold open option is not approved
- The following functions are supported by this certification:

Closer Ref.	Latch Control	Backcheck	Delayed-Action
BTS 75 V	x	✓	x
BTS 75 R	x	✓	x
BTS 80 F	✓	✓	x
BTS 80 EMB	✓	✓	x
BTS 80 FLB	x	✓	x
RTS 87	✓	✓	x
RTS 87 H	x	✓	x
RTS 80 EMB	✓	✓	x
RTS 80 FLB	x	✓	x





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- BTS 75 V, BTS 75 R, 80 F, 80 EMB and 80 FLB Floor Springs shall be used with the following accessories:
 - Top centre 8066, 7411K56F and 6150
 - Dorma Bottom Strap 7421
 - Offset bottom straps 4150, 7411/56
- RTS 87, 87 H, 80 EMB and 80 FLB transom mounted closing devices shall be used with the following accessories:
 - Side load arm 8530
 - Dorma Bottom Strap 7421
 - Floor pivot 7471AX or 7475AX

Classification codes

The above approval provides the following classification for BTS 75 V floor spring:

3	8	4 1	1	1	4
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The above approval provides the following classification for BTS 75 R floor spring:

3	8	5 2	1	1	4
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The above approval provides the following classification for BTS 80 F floor spring:

4	8	6 4	1	1	4
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The above approval provides the following classification for BTS 80 EMB and BTS 80 FLB floor springs:

3	8	6 4	1	1	4
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The above approval provides the following classification for RTS 87 and RTS 87 H transom mounted closer:

3	8	4 1	1	1	4
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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).

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Classification codes (continued)

The above approval provides the following classification for RTS 80 EMB and RTS 80 FLB EN4 transom mounted closer:

3	8	4	1	1	4
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The above approval provides the following classification for RTS 80 EMB EN5 transom mounted closer:

3	8	5	1	1	4
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Further Information

Further information regarding the details contained in this data sheet may be obtained from Dorma UK Limited (Tel: 01462 477600).

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