

BTS 75V EN 1-4 FLOORSPRING

This document contains Third Party Certification and Information for the dormakaba BTS75V EN1-4 Floorspring to demonstrate compliance with the United Kingdom Building Regulations and Construction Product Regulations 1991.

Contents

1. Declaration of Performance

The BTS75V is CE marked to BS EN1154

2. Certifire Certificate CF127

The BTS75V is Certifire Approved as per enclosed Certificate and is suitable for the following applications:-

- a) Single and Double Action Timber doors of up to 30 minutes fire resistance when installed on doors with a minimum thickness of 44mm
- b) Single and Double Action Timber doors of up to 60 minutes fire resistance when installed on doors with a minimum thickness of 54mm with BTS intumescent pack
- c) Single and Double Action Steel doors of up to 4 hours fire resistance

3. Torque Curve to demonstrate compliance with requirements of ADM and BS8300

The BTS75V when fitted to size EN3 (Minimum size for a fire door) will exert an opening force of 30N or less between 0 and 30 degrees and 22.5N or less between 30 and 60 degrees of opening when applied to doors 767mm wide or above.

Technical Specification

dormakaba BTS75V EN1-4 Floorspring with backcheck, adjustable closing speed in two independent ranges, closing force infinitely variable between EN1-4, Single or Double Action, Non Handed, CE Marked to BS EN1154 and Certifire Certificated CF127.



Once the BTS75V Floorspring has been fitted and adjusted accordingly this document can be passed to Building Control to demonstrate compliance with UK Building Regulations and to the 'responsible person' of the Building owner/occupier for use in respect of RR(FS)O requirements.

LEISTUNGSERKLÄRUNG

DECLARATION OF PERFORMANCE

DOP_0034

EN EU Nr. 305/2011 Declaration of Performance

- Unique identification code of the product-type: Controlled door closing devices
DORMA BTS 75 V EN 1-4
- Intended use/es: On fire and smoke compartmentation doors to fulfil the self closing requirements of such doors.
- Manufacturer: dormakaba Deutschland GmbH - DORMA Platz 1 - 58256 Ennepetal
- System/s of assessment and verification of constancy of performance (AVCP): System 1
- Harmonised standard: EN 1154: 1996/A1: 2002/AC: 2006
- Notified body/ies: MPA NRW 0432
- Declared performance/s:

Essential characteristic	Performance	Harmonised technical specification
Self-closing	<ul style="list-style-type: none"> ▪ Closing doors from $\geq 105^\circ$ open grade 3 ▪ Door closer power size EN 1-4 ▪ Suitability for fire/smoke door use grade1 ▪ Safety grade 1 ▪ Temperature dependence $+40^\circ\text{C}$ and -15°C: $\geq 3\text{s}$ $\leq 25\text{s}$ ▪ Back check ▪ Adjustable closing force ▪ Zero position $\leq 3\text{mm}$ (0 testcycles), $\leq 6\text{mm}$ (500000 testcycles) 	EN 1154: 1996/A1: 2002/AC: 2006
Durability of self-closing	<ul style="list-style-type: none"> ▪ Durability 500000 cycles grade 8 ▪ Very high corrosion resistance grade 4 	
Dangerous substances	<ul style="list-style-type: none"> ▪ Substances of very high concern < threshold values 	

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Ennepetal 08.11.2016



Michael Hensel

Senior Vice President
Access Solutions DACH



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

Wilbury Way, Hitchin, Hertfordshire, SG4 0AB
Tel: 01462 477600 Fax: 01462 477601

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

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

**Dorma 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
Revised: 14th March 2019
Valid to: 15th November 2020

Page 1 of 8



CERTIFICATE No CF 127

DORMA UK LTD

DORMA BTS 75 V, 80 F, 80 EMB AND 80 FLB FLOOR SPRINGS AND RTS 87, 87 H, 80 EMB and 80 FLB EN3, EN4 & EN5 TRANSOM MOUNTED CLOSERS AND ACCESSORIES

1. BTS 75 V, 80 F, 80 EMB and 80 FLB Floor Springs are adjustable floor mounted closing devices which may be used with the following accessories:
 - i) Top centre 8066, 7411K56F and 6150
 - ii) Dorma Bottom Strap 7421
 - iii) Offset bottom straps 4150, 7411/56

2. RTS 87, 87 H, 80 EMB and 80 FLB, EN3, EN4 & EN5 closers are adjustable or fixed power, transom mounted closing devices which shall be used with the following accessories:
 - i) Side load arm 8530
 - ii) Dorma Bottom Strap 7421
 - iii) Floor pivot 7471AX or 7475AX

3. 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.

4. This approval relates to their use with the following door assemblies:-

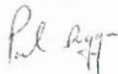
Latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames having a fire resistance up to 60 minutes (Code ITT).

Latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in steel frames having a fire resistance up to 60 minutes (Code ITM).

Latched and unlatched, intumescent sealed door assemblies consisting of metallic faced and edged leaves with cellulosic or mineral cores in steel frames having a fire resistance up to 240 minutes (Code MM and IMM).

5. The floor springs are approved on the basis of:
 - i) Initial type testing to EN1154 and BS EN 1634-1.
 - ii) An appraisal against TS34.
 - iii) Certification of quality management system to ISO 9001: 2008.
 - iv) Inspection and surveillance of factory production control.
 - v) On-going audit testing in accordance with EN 1154 requirements.

6. 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.



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DORMA BTS 75 V, 80 F, 80 EMB AND 80 FLB FLOOR SPRINGS AND RTS 87, 87 H, 80 EMB and 80 FLB EN3, EN4 & EN5 TRANSOM MOUNTED CLOSERS AND ACCESSORIES

7. The approval relates to on going 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.

Matrix of acceptable doorset types and fire resistance periods for BTS 75 V.

Class	Approved Door Type					
	IMM	MM	TT	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

See CERTIFIRE Technical Schedules for designation of doorset types i.e. IMM etc.
* Limitations apply, see scope of approval.

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CERTIFICATE No CF 127 DORMA UK LTD

DORMA BTS 75 V, 80 F, 80 EMB AND 80 FLB FLOOR SPRINGS AND RTS 87, 87 H, 80 EMB and 80 FLB EN3, EN4 & EN5 TRANSOM MOUNTED CLOSERS AND ACCESSORIES

Matrix of acceptable doorset types and fire resistance periods for BTS 80 F, 80 EMB and 80 FLB.

Class	Approved Door Type					
	IMM	MM	TT	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

See CERTIFIRE Technical Schedules for designation of doorset types i.e. IMM etc.
* Limitations apply, see scope of approval.

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CERTIFICATE No CF 127 DORMA UK LTD

DORMA BTS 75 V, 80 F, 80 EMB AND 80 FLB FLOOR SPRINGS AND RTS 87, 87 H, 80 EMB and 80 FLB EN3, EN4 & EN5 TRANSOM MOUNTED CLOSERS AND ACCESSORIES

Matrix of acceptable doorset types and fire resistance periods for RTS 87, RTS 87 H and RTS 80 EMB EN3, EN4 and EN5 transom mounted closers.

Class	Approved Door Type					
	IMM	MM	TT	ITT	ITM	ITC
FD20	x	x	x	x	x	x
FD30	x	x	x	x	x	x
FD60	x	x	x	✓	x	x
FD120	x	x	x	x	x	x
FD240	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
EI 240	x	x	x	x	x	x

Key:

- ✓ - approved
- * - Not approved

See CERTIFIRE Technical Schedules for designation of doorset types i.e. IMM etc.

CERTIFICATE No CF 127 DORMA UK LTD

DORMA BTS 75 V, 80 F, 80 EMB AND 80 FLB FLOOR SPRINGS AND RTS 87, 87 H, 80 EMB and 80 FLB EN3, EN4 & EN5 TRANSOM MOUNTED CLOSERS AND ACCESSORIES

Scope of Approval:

Floor spring closers

The closers may not be fitted to timber doorsets without intumescent protection. Where the door leaves are 45mm thick the approval is limited to FD30 with codes ITT and ITM.

Timber doorsets to EN 1634-1 must include a door leaf that is a minimum of 54 mm thick.

For all 60 minute timber doorset applications for floor spring closers, the closer bottom strap, top centre and cover plate must all be bedded onto 1 mm thick mono ammonium phosphate intumescent sheet material as supplied by DORMA.

Transom mounted closers

RTS 87, RTS 87 H, RTS 80 EMB and RTS 80 FLB transom mounted closers are only approved for use with double action FD60 ITT code doorsets.

Doorsets shall satisfy the following minimum requirements:

- The door leaf 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.
- The door frame shall be hardwood with a minimum density of 650kg/m³.
- The door frame head section shall have minimum dimensions of 119 mm wide by 69 mm high.
- Doorsets shall include a 20 mm by 4 mm intumescent seal fitted centrally to the frame head member and two 15 mm by 4 mm intumescent seals to the door leaf head. The frame mounted seals will only be interrupted at the position of the closer, the two leaf mounted seals shall be continuous across the head of the door and over the closer arm assembly.

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.

'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.

The intumescent sheet material shall be as supplied by DORMA.



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DORMA BTS 75 V, 80 F, 80 EMB AND 80 FLB FLOOR SPRINGS AND RTS 87, 87 H, 80 EMB and 80 FLB EN3, EN4 & EN5 TRANSOM MOUNTED CLOSERS AND ACCESSORIES

Classification codes

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

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

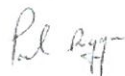
4	8	6 4	1	1	4
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The above approval provides the following classification for BTS 80 EMB and BTS 80 FLB floor springs:

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 3	1	1	4
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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:

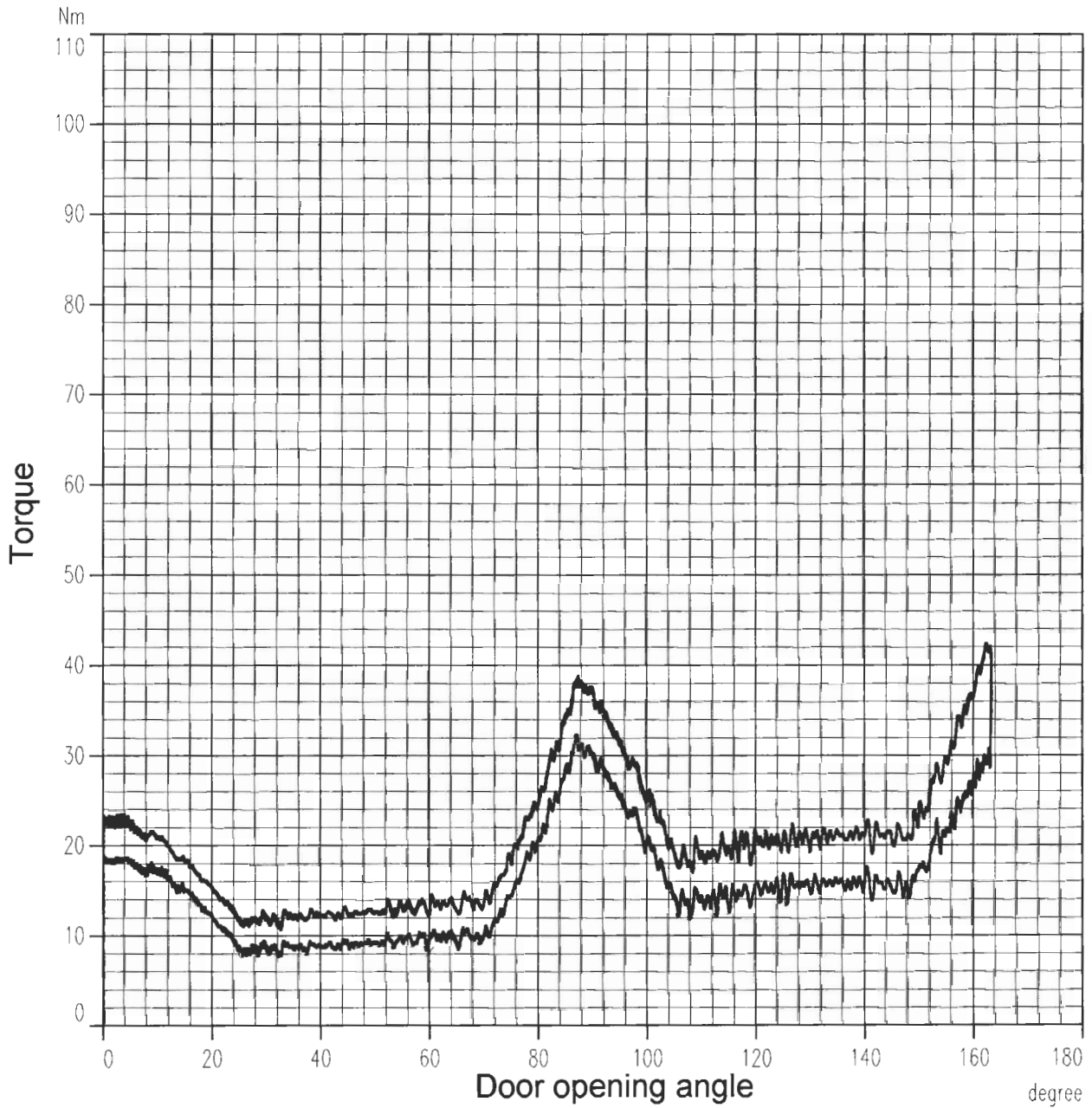
3	8	5	1	1	4
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Further Information

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).

Torque curve



Controlled door closing device EN 1154

Manufacturer: DORMA
Model: BTS 75V EN 1-4
Sample: B 1
size: 3
5000 Cycles

Standard installation

