



Floor springs

DORMA BTS 80 F -EMB -FLB

## Floor springs designed especially for fire and smoke doors. Wide range of functions, quality assured.

CERTIFIRE approved for use on certain fire doors:
See certificate no. 128
(BTS 80 F and EMB).
Complies with requirements of HTM 59 (DOH).
PSA approved (MOB H3 03).



Quality assured manufacture to DIN ISO 9001, EN 29001, BS 5750. Certified and verified by BSI Quality Assurance Reg.-No. Q 6423, FM 10756



## Plus points

## For the trade

- Complete range for every application.
- Simple stock-holdig thanks to identical accessories being used throughout the DORMA BTS range.

## For the installer

- Easy to install.
- Interchangeable spindle inserts, available to suit site conditions.
- For doors up to 300 kg in weight.

## For the architect/specifier

- Concealed installation.
- Range of functions to suit all applications.

- Proven, robust unit for doors weighing up to 300 kg.
- All models tested and quality assured, and approved by the Institute for Building Technology, Berlin. For CERTIFIRE approvals see certificate no. 128 (BTS 80 F, EMB).

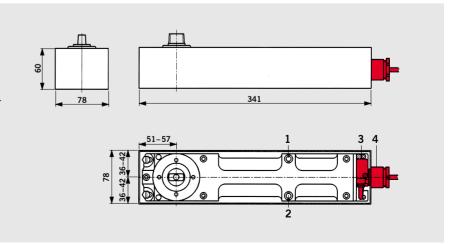
## For the user

- Reliable and fail safe.
- Closing speed unaffected by changes in temperature.
- Easy door operation thanks to high mechanical efficiency.

Technical dat	a	В	TS 80	0 F	BTS	80	EMB	BTS	80	FLB
Closing force	Size	EN	EN	EN	EN	EN	EN	EN	EN	EN
J		4	5	6	4	5	6	4	5	6
Standard door	'S									
up to	1100 mm	•	_	_	•	_	_	•	_	-
	1250 mm	-	•	_	-	•	_	-	•	-
	1400 mm	-	-	•	-	_	•	-	_	•
Universal mod	del for									
RH (ISO 5) LI										
and double ad										
(to close from		_			_					
up to	905 mm	•	_	_	•	_	_	_	_	
	1125 mm	_	•	-	-	•	-	_	_	_
	1280 mm	_	_	•	_	_	•	_	_	_
Handed mode		_		_	_	_	_			_
from 180)	LH	•	•	•	•	•	•	•	•	•
01	RH	•	•	•	•	•	•	•	•	•
Closing speed variable		_		_	١.	_	_	_	_	
by valve adjus		•	•	•	•	•	•	•	•	•
Latching action variable by valve adjustment		•	•	•	•	•	•			
Backcheck, m		•	•	•	•	•	•		_	<del>-</del>
		_	_		_		_	_	_	<del>-</del>
Delayed action		-	_	_	_	_	-	_	_	_
Hold-open, electro-magne	tic									
Hold-open poi										
selectable bet	ween									
$75~\text{and}~180^\circ$		_	_	_	•	•	•	-	_	-
Free swing 0–180°		_	_	_	-	_	_	•	•	•
Weight in kg		7.1	7.1	7.1	7.7	7.7	7.7	7.7	7.7	7.7
Dimensions in	n mm									
Lei	ngth	341	341	341	341	341	341	341	341	341
Ov	erall depth	78	78	78	78	78	78	78	78	78
He	ight	60	60	60	60	60	60	60	60	60
Power input i	in W	-	_	_	2.3	2.3	2.3	2.3	2.3	2.3
Operating voltage in										
vDC ± 15%, residual										
ripple max. 30 %		_	_	_	24	24	24	24	24	24
Duty factor in % [Rated										
for continuous service								l		
(duty factor 100 %)]		_	_	_	100	100	100	100	100	100
Door closer										
tested to EN		•	•	•	•	•	•	•	•	•
Hold-open devices										
tested to EN :			_	•	_	•	_	•	•	
<b>■</b> 125 - N	n o Onti	OH								

Yes − No ○ Option

- 1 Closing speed adjustment valve
- 2 Latching speed adjustment valve (not available with the BTS 80 FLB)
- 3 Plug connector with cable for EMB and FLB power supply
- 4 Gland for protective conduit (power supply to EMB/FLB)



# DORMA BTS 80 F

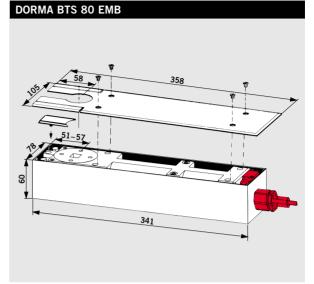
CERTIFIRE approved cert. no. 128

## Fire door applications

Please see the CERTIFIRE Register of Approved Products for full details of fire door types with which this floor spring may be used.

## Approval and certification

The DORMA BTS 80 F has been approved, and is subject to third-party verification, by the State Material Testing Agency (MPA) of North Rhine Westphalia/Dortmund, Germany. PSA approved (MOB H3 03) HTM 59 (DOH).



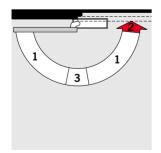
Floor spring with electromagnetic hold-open CERTIFIRE approved cert. no. 128

## Fire door applications

Please see the CERTIFIRE Register of Approved Products for full details of fire door types with which this floor spring may be used.

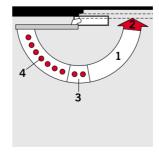
## Approval certification

The DORMA BTS 80 EMB has been approved by the Institute for Building Technology, Berlin, for use in combination with all common smoke detector systems, e.g. DORMA BTS 80 EMB with DORMA RMZ 2: approval certificate Z-6.5-1310. PSA approved (MOB H3 03) HTM 59 (DOH).



- 1 Fully controlled closing with adjustable speed
- 2 Adjustable latching action
- 3 Mechanical backcheck

Example shows LH door; mirrored arrangement applies to RH door.



- 1 Fully controlled closing with adjustable speed
- 2 Adjustable latching action
- 3 Mechanical backcheck
- **3** Hold-open range (fall back approx. 3°)

Example shows LH door; mirrored arrangement applies to RH door.

BTS 80 F-EMB-FLB, GB



## DORMA BTS 80 FLB

Floor spring with free-swing feature (electro-hydraulically controlled spring detent)

## Fire door applications

The DORMA BTS 80 FLB is designed to remove all spring pressure, whilst the door is available for manual opening and closing. When the current supply is interrupted, e.g. fire alarm, the floor spring resumes its self-closing function.

## Approval certification

The DORMA BTS 80 FLB has been approved by the Institute for Building Technology, Berlin, for use in combination with all common smoke detector systems, e.g. DORMA BTS 80 EMB with DORMA RMZ 2: approval certificate Z-6.5-1310.

## Accessories

## Applications and fixing instructions, door straps and top centres

See Technical Information "Floor spring accessories".

## Spindle inserts

Interchangeable spindle inserts enable the floor clearance to be increased if required (doors with thresholds, carpeted floors, etc.). Special spindle designs on application: e.g. flat tapered with 3° offset, square spindles and spindle inserts for non DORMA accessories.

## Extended spindle insert

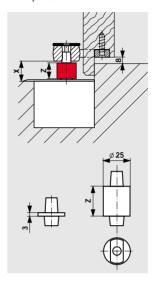
Spindle Extension = Dimension "X" – (standard 8 mm) (Door Clearance) **Z** – 3 mm

**NOTE:** Closer and bottom strap must be installed per fixing instructions for door clearances shown to be valid. Closers with extended

## Universal cover plate

One cover plate, suitable for left hand/right hand 36 mm offset, and centre pivoted doors. Further modification is necessary for use with 5 mm offset accessories. Available in stainless steel or satin brass (thickness of material 1.5 mm). A reinforcing underplate is available for use in areas of especially heavy traffic or trolleys.

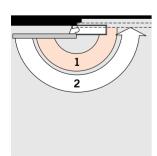
spindle inserts are used with thresholds, carpeted floors, terrazzo pans or in cases where more clearance between door and floor is required. Surface finsh: Zinc plated.



## DORMA 2300 Sealing Compound

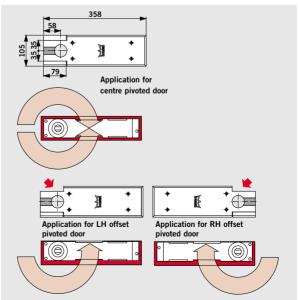
For filling the cavities between the floor spring body and the cement box to prevent moisture penetration (mandatory according to e.g. VOB regulations for wet rooms).

4



- 1 Free-swing range
- 2 Fully controlled closing in the event of an alarm or interruption of the power supply

Example shows LH door; mirrored arrangement applies to RH door.





## Scope of supply and accessories

Floor spring BTS 80 F	With cement box, without spindle insert	Spindle inserts <sup>1)</sup>	Universal cover p Stainless steel 46700000	plate   Satin   Brass   56700100	Sealing compound 2300, 0.5 kg 45090059	
Size EN 4 LH RH Universal	80220101 80220201 80220001	# # #	# # #	# # #	# # #	
Size EN 5 LH RH Universal	80210101 80210201 80210001	# # #	# # #	# # #	# # #	
Size EN 6 LH RH Universal	80230101 80230201 80230001	# # #	# # #	# # #	# # #	

Floor spring	With cement	Spindle inserts <sup>1)</sup>	Universal cover plate		Sealing	Protective
BTS 80 EMB	box, without		Stainless	Satin	compound	conduit (3.5 m)
	spindle insert,		steel	Brass	2300, 0.5 kg	for cable
	3.5 m cable		46700000	56700100	45090059	82000005
Size EN 4						
LH	82224101	#	#	#	#	#
RH	82224201	#	#	#	#	#
Universal	82224001	#	#	#	#	#
Size EN 5						
LH	82214101	#	#	#	#	#
RH	82214201	#	#	#	#	#
Universal	82214001	#	#	#	#	#
Size EN 6						
LH	82234101	#	#	#	#	#
RH	83234201	#	#	#	#	#
Universal	82234001	#	#	#	#	#

Floor spring BTS 80 FLB	With cement box, without	Spindle inserts <sup>1)</sup>	Universal cover p	Universal cover plate Stainless Satin		Protective conduit (3.5 m)
for free-swing action	spindle insert, 3.5 m cable		steel 46700000	Brass 56700100	compound   2300, 0.5 kg   45090059	for cable 82000005
Size EN 4						
LH	82124101	#	#	#	#	#
RH	82124201	#	#	#	#	#
Size EN 5						
LH	82114101	#	#	#	#	#
RH	82114201	#	#	#	#	#
Size EN 6						
LH	82134101	#	#	#	#	#
RH	82134201	#	#	#	#	#

<sup># =</sup> Accessory 1) See technical information leaflet "Floor spring accessories"

5 BTS 80 F-EMB-FLB, GB

Subject to change without notice
GB X XX/C+P 08/02 · 5
B. GB. X
- FMB - FI
02. BTS 80 F
WN 050 924, 07/02, BTS
Z X

DORMA Door Controls Ltd. DORMA Trading Park	DORMA Door Controls Pte. Ltd. No. 2, Jalan Terusan, Jurong	DORMA Gulf Door Controls FZE Jebel Ali Free Zone, Roundabout 8,	DORMA GmbH + Co. KG P.O. Box 40 09
		<b>Make:</b> DORMA BTS 80 FLB	
Free-swing floor spring with electro-hydraulic free-swing feature between 0° and 180°, closing action (de-energised condition) from 180°, and backcheck (de-energised condition).  Operating voltage: 24 vDC Power input: 2.3 W	Size  □ EN 4  □ EN 5 □ EN 6  Model □ LH (ISO 6) □ RH (ISO 5)	Accessories  ☐ Universal cover plate,  1.5 mm thick ☐ stainless steel ☐ satin brass ☐ reinforcing underplate ☐ Spindle insert, mm extension ☐ Sealing compound	Note: According to the German codes of practice relating to hold-open systems, acceptance inspection of the system is mandatory.
DORMA BTS 80 EMB Floor spring with electro- hydraulic hold-open and inte- gral pressure compensation feature for multipoint hold- open between 75° and 175°. With adjustable, hydraulic- ally fully controlled closing speed, adjustable latching action, backcheck; including cement box. Operating voltage: 24 vDC Power input: 2.3 W CERTIFIRE approved certificate no. 128. Officially approved by the Institute for Building Technology, Berlin, for use in hold-open systems.	Size  EN 4 EN 5 EN 6  Model LH (ISO 6) RH (ISO 5) Universal Special design with integral circuit for door co-ordinator with electromagnetic retention LH RH	Accessories  ☐ Universal cover plate,  1.5 mm thick ☐ stainless steel ☐ satin brass ☐ reinforcing underplate ☐ Spindle insert, mm extension ☐ Sealing compound	Note: According to the German codes of practice relating to hold-open systems, acceptance inspection of the system is mandatory.
DORMA BTS 80 F CERTIFIRE approved universal floor spring, with hydraulically fully controlled closing from 175°, adjustable latching action and back- check; including cement box CERTIFIRE approved certificate no. 128.	Size  EN 4 EN 5 EN 6  Model LH (ISO 6) RH (ISO 5) Universal	Accessories  Universal cover plate,  1.5 mm thick  stainless steel satin brass reinforcing underplate  Spindle insert, mm extension Sealing compound  Make: DORMA BTS 80 F	

## DORMA Trading Park

Staffa Road GB-London E10 7QX Tel. 02085588411 Fax 02085586122

hardware@dorma a-uk.co.uk

## DORMA Door Controls Ltd. 19, Sandyford Office Park

Foxrock IRL-Dublin 18 Tel. 01 295 82 80-82 Fax 01 295 85 84 E-mail:

dormadublin@dorma.com

Jebel Ali Free Zone, Roundabout 8, Unit VC 02 P.O. Box 17268 Jebel Ali, Dubai United Arab Emirates Tel. 00971 48/83 90 14 Fax 00971 48/83 90 15

## DORMA Door Controls (Pty.) Ltd.

Kings Court P.O. Box 82182 2135 Southdale South Africa

Singapore 619285 Rep. of Singapore Tel. 0065 62687633

Fax 0065 62657914

Narre Warren Vic 3805

Hallam/Victoria 3803

Australia Tel. 0061 3/97 96 35 55 Fax 0061 3/97 96 39 55

52 Abbott Road

**DORMA Door Controls Pty. Ltd.** P.O. Box 1092

Tel. 0027 11/8 30 02 80 Fax 0027 11/8 30 02 91

P.O. Box 40 09 D-58247 Ennepetal Breckerfelder Straße 42-48 D-58256 Ennepetal Germany Tel. +49(0)23 33/7 93-0 Fax +49(0)23 33/79 34 95

The address of a subsidiary/ representation in your area you can find at the DORMA website: www.dorma.com