



## Dormakaba Floor Springs

(BTS84, BTS75 (EN1-4), BTS84 (EN2, EN4),  
RTS85 (Transom Concealed Door Closer) (EN1-4)

Whether standard, narrow or wide, whether LH, RH, or single or double action – dormakaba BTS 80 and BTS 75 door springs are designed for all types of door. A comprehensive program of accessories ensures that they can be used successfully with a wide variety of door constructions and floor coverings. Thanks to a wide range of functions, which can be individually selected to suit different requirements, dormakaba BTS 80 and BTS 75 floor springs offer maximum reliability and quality.

### There are four systems:

#### Dormakaba BTS84

The BTS84 is a double-action floor spring which has been specially developed for toughened glass doors.

##### Key Features

- ▶ Concealed unit for almost invisible installation.
- ▶ Minimum floor recess dimensions.
- ▶ Proven, robust unit for door weights up to 100 kg.

##### Scope of Use

- ▶ Floor spring for double action doors, with hydraulic fully controlled closing from approx. 130°; including cement box and removable spindle insert.

##### Material Finish

- ▶ Satin Stainless Steel.
- ▶ Powdercoated on request. Note: Powder coating is available in a wide range of colours with commercially available surface integrity warranties from 10 to 30 years.

##### Support Inquiries

- ▶ Metro Technical phone (09) 927 3000 or email [technical@metroglass.co.nz](mailto:technical@metroglass.co.nz).



#### Dormakaba BTS75 (EN1-4)

The BTS75 is a highly adaptable floor spring suitable for all standard single-, and double-action doors with widths up to 1100 mm, with its closing force individually regulated by means of an adjustment screw.

##### Key Features

- ▶ For single and double-action doors.
- ▶ Universal application range.
- ▶ Adjustable Closing Force.
- ▶ Concealed installation.
- ▶ Maximum ease of use.
- ▶ Proven, robust unit for door weights up to 120 kg.

##### Scope of Use

- ▶ Universal floor spring, non-handed unit suitable for LH and RH single and double action doors up to 120 kg leaf weight, with adjustable spring strength (size EN 1 – 4) and closing speed, with closing action operational from approx. 175°. Featuring hydraulically fully controlled closing cycle and backcheck. Including cement box.

##### Material Finish

- ▶ Satin Stainless Steel.
- ▶ Powdercoated on request. Note: Powder coating is available in a wide range of colours with commercially available surface integrity warranties from 10 to 30 years.

##### Support Inquiries

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## Dormakaba BTS80 (EN2, EN4)

The BTS80 Series of floor-concealed door closers offer adaptability to almost any installation. The closer's compact body permits its use where a larger closer would be prohibitive. Versatility allows installation in thin slab concrete subfloor construction. A wide selection of interchangeable spindles makes the BTS80 suitable for virtually any floor covering or threshold application.

### Key Features

- ▶ Concealed installation.
- ▶ Fixed Spring Sizes.
- ▶ Non-handed for single and double-acting doors.
- ▶ Mechanical backcheck.
- ▶ Proven, robust unit for door weights up to 300 kg.
- ▶ Max 1370mm internal.
- ▶ Max 1219mm external.

### Scope of Use

- ▶ Universal non-handed floor spring conforming to DIN EN 1154 for single and double action doors up to max.300 kg leaf weight. With adjustable closing speed and closing action from approx. 175°, with hydraulically fully controlled closing cycle and backcheck. With integral pressure compensation feature for temperature-independent hold-open between 75° and 175° (removable). With adjustable hold-open start point and delayed action (end of delayed action range adjustable between 75° and 105°). Including cement box.

### Material Finish

- ▶ Satin Stainless Steel.
- ▶ Powdercoated on request. Note: Powder coating is available in a wide range of colours with commercially available surface integrity warranties from 10 to 30 years.

### Support Inquiries

- ▶ Metro Technical phone (09) 927 3000 or email [technical@metroglass.co.nz](mailto:technical@metroglass.co.nz).



## Dormakaba RTS85 (Transom Concealed Door Closer) (EN1-4)

The DORMA RTS85 transom concealed door closer offers a solution for installations where door control must be provided without disturbing the aesthetic appearance of the door. Complete with the choice of three spring strength sizes, hold open and non hold open variants, back check function and our wide range of accessories makes the RTS 85 the perfect choice for shop fronts, office partitions and frameless glass door applications.

### Key Features

- ▶ For single and double action doors.
- ▶ Door widths up to 1100 mm.
- ▶ Backcheck function as standard.
- ▶ Wide range of accessories for almost every configuration.
- ▶ Concealed in the door frame.

- ▶ Proven, robust unit for door weights up to 110 kg. (For applications involving particularly heavy or wide doors, and doors which have to close against wind resistance please consult MFG Technical Team Members).

### Scope of Use

- ▶ Ideal for pivot doors in partition fit outs, shop fronts, frameless glass doors and pivoting fire doors. Whilst typically used for double action doors it is also suitable for single action doors. The majority of preparation can be accomplished by the fabricator prior to installation and with no floor preparation required it leaves minimal on-site work necessary. A comprehensive line of accessories is available to accommodate virtually any door and frame configuration.

### Material Finish

- ▶ Satin Stainless Steel.
- ▶ Powdercoated on request. Note: Powder coating is available in a wide range of colours with commercially available surface integrity warranties from 10 to 30 years.

### Support Inquiries

- ▶ Metro Technical phone (09) 927 3000 or email [technical@metroglass.co.nz](mailto:technical@metroglass.co.nz).



## PATCH FITTINGS: (HARDWARE LIMITATIONS)

### Dorma BTS84

SUITABLE FOR INTERNAL AND EXTERNAL DOORS. MAXIMUM Door weight 100kg. Suitable for Door Width 750-1100mm. Maximum width 1100mm.

Nominal Glass Thickness (mm)	MAXIMUM Door Heights Span (mm) for Wind Zones																	
	Internal 0.5kPa			Low 0.72 kPa			Medium 0.96 kPa			High 1.36 kPa			Very High 1.76 kPa			Extra High		
	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits
10mm TEMPAFLOAT®	2400	1000	Yes	2200	1000	Yes	2000	1000	Yes	1800	1000	Yes	NA	NA	No			
12mm TEMPAFLOAT®	2800	1100	Yes	2600	1100	Yes	2400	1100	Yes	2200	1100	Yes	2000	1100	Yes			
15mm TEMPAFLOAT®	3600		No	3400		No	3200		No	2800		No	2400		No			
19mm TEMPAFLOAT®	4000		No	4000		No	4000			3400			3200					

### Dorma BTS75

SUITABLE FOR INTERNAL AND EXTERNAL DOORS. MAXIMUM Door weight 120kg. Suitable for Door Width 750-1100mm. Maximum width 1100mm.

Nominal Glass Thickness (mm)	MAXIMUM Door Heights Span (mm) for Wind Zones																	
	Internal 0.5kPa			Low 0.72 kPa			Medium 0.96 kPa			High 1.36 kPa			Very High 1.76 kPa			Extra High		
	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits
10mm TEMPAFLOAT®	2400	1100	Yes	2200	1100	Yes	2000	1100	Yes	1800	1100	Yes	NA	NA	No			
12mm TEMPAFLOAT®	2800	1100	Yes	2600	1100	Yes	2400	1100	Yes	2200	1100	Yes	2000	1100	Yes			
15mm TEMPAFLOAT®	3600	888	Yes	3400	941	Yes	3200	1000	Yes	2800	1100	Yes	2400	1100	Yes			
19mm TEMPAFLOAT®	3368	750	Yes	3368	750	Yes	3368	750	Yes	3368	750	Yes	3200	789	Yes			

### Dorma BTS80

SUITABLE FOR INTERNAL AND EXTERNAL DOORS. MAXIMUM Door weight 300kg. Suitable for Door Width 750-1370mm. Maximum width 1370mm.

Nominal Glass Thickness (mm)	MAXIMUM Door Heights Span (mm) for Wind Zones																	
	Internal 0.5kPa			Low 0.72 kPa			Medium 0.96 kPa			High 1.36 kPa			Very High 1.76 kPa			Extra High		
	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits
10mm TEMPAFLOAT®	2400	1370	Yes	2200	1219	No	2000	1219	Yes	1800	1219	Yes	NA	NA	No			
12mm TEMPAFLOAT®	2800	1370	Yes	2600	1219	No	2400	1219	Yes	2200	1219	Yes	2000	1219	Yes			
15mm TEMPAFLOAT®	3600	1370	Yes	3400	1219	Yes	3200	1219	Yes	2800	1219	Yes	2400	1219	Yes			
19mm TEMPAFLOAT®	4000	1370	Yes	4000	1219	Yes	4000	1219	Yes	3400	1219	Yes	3200	1219	Yes			

### Dorma RTS85

SUITABLE FOR INTERNAL AND EXTERNAL DOORS. MAXIMUM Door weight 110kg. Suitable for Door Width 750-1100mm.







Nominal Glass Thickness (mm)	MAXIMUM Door Heights Span (mm) for Wind Zones																	
	Internal 0.5kPa			Low 0.72 kPa			Medium 0.96 kPa			High 1.36 kPa			Very High 1.76 kPa			Extra High		
	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits	H	W	Suits
10mm TEMPAFLOAT®	2400	1100	Yes	2200	1100	No	2000	1100	Yes	1800	1100	Yes	NA	NA	No			
12mm TEMPAFLOAT®	2800	1100	Yes	2600	1100	No	2400	1100	Yes	2200	1100	Yes	2000	1100	Yes			
15mm TEMPAFLOAT®	3600	814	Yes	3400	862	Yes	3200	916	Yes	2800	1047	Yes	2400	1100	Yes			
19mm TEMPAFLOAT®	3087	750	Yes	3087	750	Yes	3087	750	Yes	3087	750	Yes	3087	750	Yes			



## HINGED AND PIVOT DOORS

## Dormakaba Floor Springs (Hydraulic Patch)



Product	Model	Sizes mm	Finish	Material	Type	Application	Area
<b>BTS84 FLOOR SPRING HYDRAULIC PATCH KIT</b> 	500582	15Nm 90 DEGREE HOLD OPEN	SS	316 STAINLESS STEEL	HYDRAULIC FLOOR MOUNTED PATCH FITTING	STANDARD PIVOT DOOR HINGE DOOR	Internal & External 
	500583	NON HOLD OPEN	SS				
	500580	25Nm 90 DEGREE HOLD OPEN	SS				
	500581	NON HOLD OPEN	SS				
		GLASS THICKNESS: 8-12mm  Max Door Weight 100kg	ON REQUEST: POWDERCOAT				
<b>BTS75 FLOOR SPRING HYDRAULIC PATCH KIT</b> 	500584	15-25Nm 90 DEGREE HOLD OPEN	SS	316 STAINLESS STEEL	HYDRAULIC FLOOR MOUNTED PATCH FITTING	ADJUSTABLE STRENGTH PIVOT DOOR HINGE DOOR	Internal & External 
	500585	NON HOLD OPEN	SS				
		GLASS THICKNESS: 8-12mm  Max Door Weight 120kg	ON REQUEST: POWDERCOAT				
<b>BTS80 FLOOR SPRING HYDRAULIC PATCH KIT</b> 	500586	35Nm 90 DEGREE HOLD OPEN & NON HOLD OPEN	SS	316 STAINLESS STEEL	HYDRAULIC FLOOR MOUNTED PATCH FITTING	HEAVY DUTY PIVOT DOOR HINGE DOOR	Internal & External 
	500587	53Nm 90 DEGREE HOLD OPEN & NON HOLD OPEN	SS				
		GLASS THICKNESS: 8-12mm  Max Door Weight 300kg	ON REQUEST: POWDERCOAT				


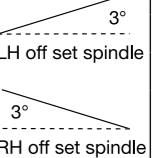







BTS84, BTS75, BTS80 supplied complete with Foundation Box, Stainless Steel Cover Plate, Screw Pack.

(STANDARD PATCH FITTINGS CAN ACCOMMODATE 10-12mm GLASS ONLY).

## HINGED AND PIVOT DOORS

## Dormakaba Floor Spring Individual Components





Product	Model	Sizes mm	Finish	Material	Type	Application	Area
<b>FLOOR SPRING SPINDLES</b> 	300544	STD SPINDLE	SS	316 STAINLESS STEEL	FLOOR SPRING SPINDLES  SUITS COMPONENT BTS84 BTS75 BTS80	COMPONENT  *Please specify if you require Offset 3 degrees for single action LH or RH  	Internal & External 
	300545	5mm	SS				
	300538	10mm	SS				
	300539	15mm	SS				
	300540	20mm	SS				
	300541	25mm	SS				
	300542	40mm	SS				
300543	50mm	SS					
<b>BTS84 COVER PLATE</b> 	300533	325x130mm	SS	316 STAINLESS STEEL	COVER PLATE	REPLACEMENT PARTS	Internal & External 
<b>BTS75 COVER PLATE</b> 	300368	308x106mm	SS	316 STAINLESS STEEL	COVER PLATE	REPLACEMENT PARTS	Internal & External 
<b>BTS80 COVER PLATE</b> 	300369	368x105mm	SS	316 STAINLESS STEEL	COVER PLATE	REPLACEMENT PARTS	Internal & External 

## HINGED AND PIVOT SLIDING DOORS

## Dormakaba Overhead Transom Closer (Hydraulic Patch)






Product	Model	Sizes mm	Finish	Material	Type	Application	Area
<b>RTS85 OVERHEAD TRANSOM CLOSER</b>  <b>HYDRAULIC PATCH KIT</b> 	500588	25Nm ALUMINIUM / TIMBER FIX	SS	316 STAINLESS STEEL	HYDRAULIC FLOOR MOUNTED PATCH FITTING	STANDARD PIVOT DOOR HINGE DOOR	Internal & External 
	500589	90 DEGREE HOLD OPEN NON HOLD OPEN	SS				
		GLASS THICKNESS: 8-12mm	ON REQUEST: POWDERCOAT				

## HINGED AND PIVOT SLIDING DOORS

## Overhead Transom Closer Components



Product	Model	Sizes mm	Finish	Material	Type	Application	Area
<b>RTS85 COVER PLATE</b> 	300397	365x117mm	SS	316 STAINLESS STEEL	COVER PLATE <small>*Suits both Timber and Aluminium Installations</small>	REPLACEMENT PARTS	Internal & External 
<b>RTS85 RAIL INSERT</b> 	501269	76x26x19mm	GOLD PASSIVATED PLATED	316 STAINLESS STEEL	TOP PIVOTING RAIL CONVERSION  The Top Pivoting Rail will require an extra conversion Insert (RTS85 RAIL INSERT sku 501269)  Used with MR20 & MR40 Door Rails.	DOOR RAILS	Internal & External 