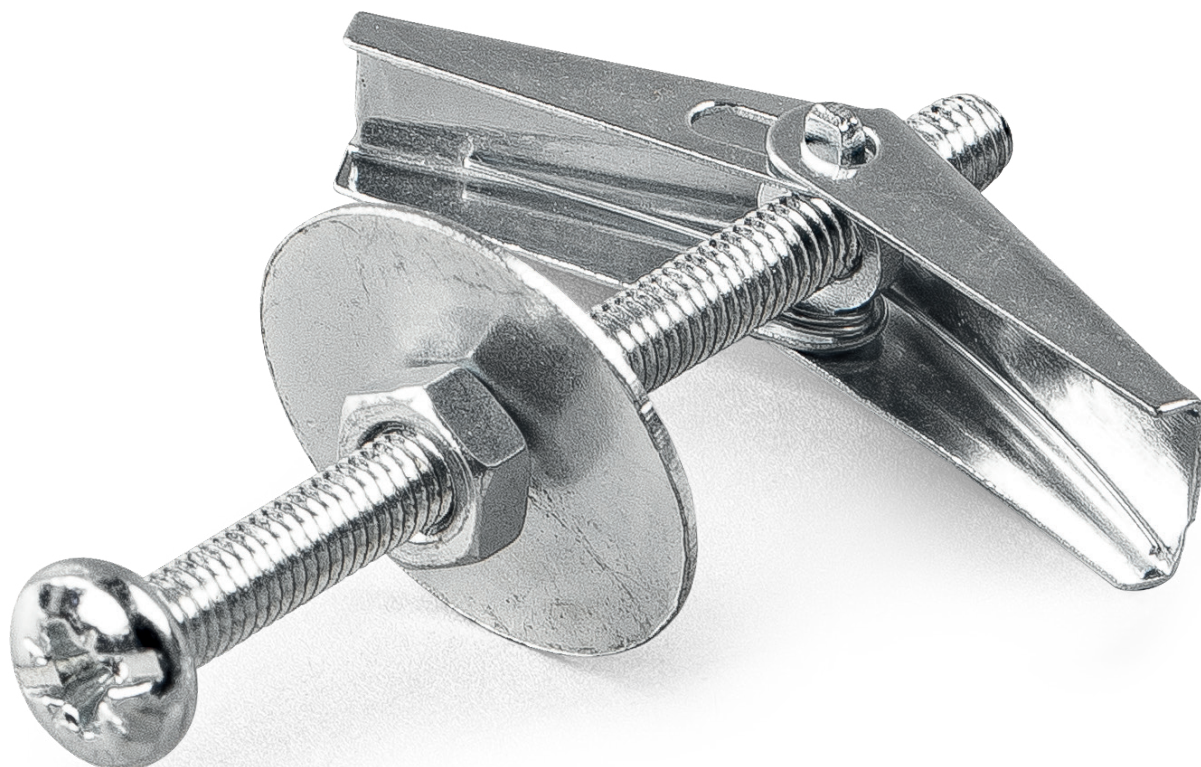


R-SPO METAL FOLDING PIN UMBRELLA TYPE

Expansion mounting with metric screw for fastening lightweight components in thin-walled panels



FEATURES AND BENEFITS

Long screw of the toggle fixing allows use in boards of various thicknesses and with thick attachments, offering maximum flexibility

Wide transition beams ensure a good load distribution allowing high load-bearing capacity

Allows easy installation for fastenings behind thick panels in very flat cavities

Self-acting anchor with easy installation

Suitable for overhead applications

BASE MATERIAL



Oriented Strand Board



Chipboard



Plasterboard



PVC Profile



APPLICATIONS

Suitable for overhead applications

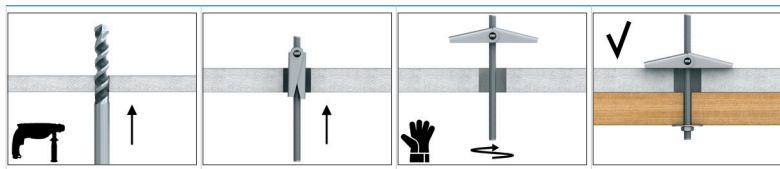
Decorative elements

Lighting

Mirrors



INSTALLATION GUIDE

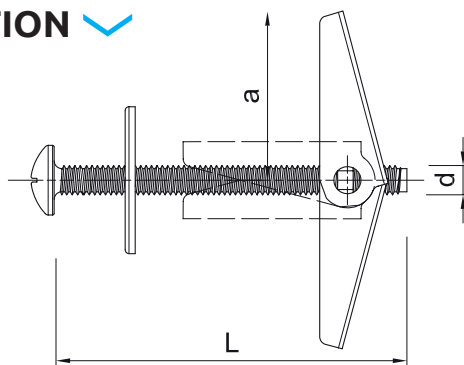


1. Drill a hole of the required diameter.
2. Compress the 'wings' and push the fixing into the hole.
3. While tightening the screw, pull the fixture out from the wall or ceiling to prevent the 'wings' spinning freely.

INSTALLATION DATA

Size			R-SPO-03050	R-SPO-05050	R-SPO-05080	R-SPO-06060	R-SPO-06080
Fixing diameter	d	[mm]	3	5	5	6	6
Hole diameter in substrate	d ₀	[mm]	12	14	14	18	18
Hole diameter in fixture	d _f	[mm]	12	14	14	18	18
Min. substrate thickness in plasterboard min. 12.5 mm, through-hole fastening	h _{min}	[mm]	12.5	12.5	12.5	12.5	12.5
Min. substrate thickness in oriented strand board min. 22 mm, through-hole fastening	h _{min}	[mm]	22	22	22	22	22
Min. spacing	s _{min}	[mm]	100	100	100	100	100
Min. edge distance	c _{min}	[mm]	100	100	100	100	100

PRODUCT INFORMATION



Product code	Plug	Screw		Fixture
	Radius	Diameter	Length	Max. thickness
	a [mm]	d [mm]	L [mm]	d _{fix} [mm]
R-SPO-03050	18,3	3	50	22
R-SPO-05050	25	5	50	15
R-SPO-05080	25	5	80	45
R-SPO-06060	27	6	60	22
R-SPO-06080	27	6	80	42

BASIC PERFORMANCE DATA

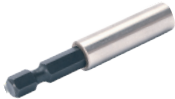
Performance data for single fixing without influence of edge distance and spacing

Size		R-SPO-03050	R-SPO-05050	R-SPO-05080	R-SPO-06060	R-SPO-06080
CHARACTERISTIC LOAD F _{Rk}						
Plasterboard min. 12.5 mm	[kN]	0.44	0.50	0.51	0.51	0.41
Oriented strand board min. 22 mm	[kN]	0.58	0.93	0.89	1.64	1.62
DESIGN LOAD F _{Rd}						
Plasterboard min. 12.5 mm	[kN]	0.22	0.25	0.26	0.25	0.20
Oriented strand board min. 22 mm	[kN]	0.29	0.47	0.45	0.82	0.81
RECOMMENDED LOAD F _{Rec}						
Plasterboard min. 12.5 mm	[kN]	0.16	0.18	0.18	0.18	0.14
Oriented strand board min. 22 mm	[kN]	0.21	0.33	0.32	0.59	0.58

LOGISTICAL DATA

SKU	Base-sales unit	Unit pack	Bulk pack	Pallet	Single Package - Gross Weight	Bulk Package - Gross Weight	Palette - Gross Weight	Barcode
R-SPO-03050	pcs.	100	1600	38400	0.52	8.5	205	5010445944307
R-SPO-05050	pcs.	100	1600	38400	1.3	21.6	519	5906675206950
R-SPO-05080	pcs.	100	1200	28800	1.7	20.6	494.5	5010445944390
R-SPO-06060	pcs.	50	800	19200	1.1	19	455.7	5010445944420
R-SPO-06080	pcs.	50	800	19200	1.3	20.8	498.4	5010445944451

RELATED PRODUCT

DRILLING	POWER TOOLS	Rawl-Driver 18V 60Nm 2x5,0Ah R-PDD18-70 			
	ACCESSORIES	Magnetic holder 1/4" RT-BIT-ADAP 	Phillips PZ bits RT-BIT-PZ2 	Protective gloves R-PGL 	Protective glasses R-PGO 