SHIRAZEE TRADERS

S-Plug

The classics. Often copied - never equalled!

OVERVIEW



S-plug



Wood screw



Chipboard screw

Suitable for:

- Concrete
- Natural stone with dense structure
- Solid brick
- Solid sand-lime brick
- Solid block made from lightweight concrete
- Hollow concrete blocks etc.

For fixing of:

- Pictures
- Motion detectors
- Lamps
- Skirting
- Electric switches
- Small wall-mounted shelves
- Towel rails
- Lightweight mirror cabinets

HALOGENER

- Letter boxes
- Hanging baskets
- Curtain rails

DESCRIPTION

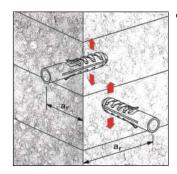
- Nylon expansion fixing.
- For use with wood-, chipboard-, and self-tapping screws (see chapter safety-screws)

Advantages/Benefits

- Anti-rotation lugs stop the plug rotating in the drill hole.
- The wide neck is subject to no expansion pressure and prevents surface damage to tiles and plaster.
- Temperature-resistant from -40° to +80°C.
- Can be used with wood and chipboard screws from 2 mm to 16 mm.







The edge distance a_r must be at least onnce the anchorage length. For installations close to the edge we recommend turning the plug in a way that the direction of expansion acts parallel to the edge.

INSTALLATION

Type of installation

Pre-positioned and push-through installation.











Installation information

- Determination of the minimum screw length: Fixing length
 - + Thickness of plaster and/or insulation
 - + Fixture thickness
 - + 1x screw diameter
- Drill only in a rotary motion (hammer switched off) in perforated and hollow bricks and aircrete.
- For safety relevant applications under permanent tensile load, nylon plugs are not allowed. Therefore nylon plugs may not be used for suspensions from the ceiling like lightnings.



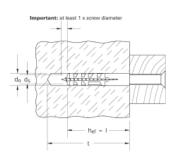


TECHNICAL DATA



S-plug

Туре	ArtNo.	ID	drill-Ø	min. drill hole depth	plug length = min. anchorage depth	wood or chipboard screw min / max	qty. per box	
			d_0	t	I = h _{ef}	d _S		
			[mm]	[mm]	[mm]	[Ø mm]	pcs.	
S 4	50104	7	4	25	20	2 - 3	200	
S 5	50105	4	5	35	25	3 - 4	100	
S 6	50106	1	6	40	30	4 - 5	100	
\$ 8	50108	5	8	55	40	4,5 - 6	100	
S 10	50110	8	10	70	50	6 - 8	50	
S 12	50112	2	12	80	60	8 - 10	25	
S 14	50114	6	14	90	75	10 - 12	20	
S 16	50116	0	16	100	80	12 (1/2")	10	
S 20	50120	7	20	120	90	16	5	
S 5 DP	50124	5	5	35	25	3 - 4	200	
S 6 DP	50125	2	6	40	30	4 - 5	200	
S 8 DP	50126	9	8	55	40	4,5 - 6	200	
S 10 DP	50127	6	10	70	50	6 - 8	100	



DP = Double pack

BOXES



Stacking box \mathbf{ST}



Туре	ArtNo.	ID	contents	Oty. per box
				pcs.
ST 1 S8 S	60510	3	34 plugs S 8, 34 countersunk wood screws SH 4,5 x 45	1
ST 1 S6 S	60509	7	50 plugs S 6, 50 countersunk wood screws SH 5 x 60	1
ST 1 S6/8	60499	1	50 plugs S 6, 30 plugs S 8	1
UX/SX Assortment box	43540	3	60 plugs SX 6 x 30, 50 plugs SX 8 x 40, 20 plugs SX 10 x 50, 60 plugs UX 5 x 30 R, 40 plugs UX 6 x 50 R, 50 plugs UX 8 x 50 R, 10 plugs UX 10 x 60 R	-
Box UX 6.8.10	93182	0	100 plugs UX 6 x 35, 70 plugs UX 8 x 50, 20 plugs UX 10 x 60	1
Box SX 5.6.8	30191	3	100 plugs SX 5 x 25, 100 plugs SX 6 x 30, 100 plugs SX 8 x 40	1
Box S 6.8.10	60515	8	100 plugs S 6, 100 plugs S 8, 25 plugs S 10	1
Box S 5.6.8	60513	4	100 plugs S 5, 100 plugs S 6, 100 plugs S8	1
Box empty	60500	4	-	1

LOADS

Recommended loads N_{rec} [kN] and characteristic (5% fractile) loads N_{Rk} [kN]. These values apply to the use of wood screws with the given screw diameter. When use chipboard screws these values should be reduced by 30%.

Fixing type	S 4		S 5 S 6		6	S 8		S 10		S 12		S 14		S 16		S 20		
Wood screw diameter [mm]	3		4 5		ō	6		8		10		12		12		16		
Substrate	N _{rec} 1)	N _{Rk}	N _{rec} 1)	N _{Rk}	N _{rec} 1)	N _{Rk}	N _{rec} 1)	N_{Rk}	N _{rec} 1)	N _{Rk}	N _{rec} 1)	N _{Rk}						
Concrete ≥ C12/15	0.16	0.8	0.28	1.4	0.4	2.0	0.66	3.3	1.22	6.1	1.80	9.0	2.38	11.9	2.26	11.3	3.88	19.4
Solid brick ≥ Mz 12 (DIN 105)	0.14	0.7	0.24	1.2	0.38	1.9	0.66	3.3	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)
Sand-lime solid brick ≥ KS 12 (DIN 106)	0.14	0.7	0.24	1.2	0.38	1.9	0.66	3.3	2)	2)	2)	2)	2)	2)	2)	2)	2)	2)
Aerated concrete ≥ PB2	-	-	-	-	0.05	0.25	0.07	0.35	0.16	0.8	0.28	1.4	0.4	2.0	2)	2)	2)	2)

¹⁾ Safety factors for the material (γ_M) and for the load (γ_L) included.



²⁾ Due to large range of scatter of test results not suitable, the failure of the substrate varies so greatly that no reproducible values can be given.