

Expansion plug S

The installation-friendly nylon plug with 2-way expansion



Small shelves



Signs

6

Applications

- Pictures
- Lighting
- Skirting
- Light shelves
- Mirror cabinets
- Letter boxes
- Motion detectors
- Information boards
- Curtain rails
- Electrical installations

Advantages

- The rimless plug sleeve allows for the plug to be set as deep as required below the plaster to the bearing substrate to achieve the maximum load-bearing capacity.
- As the plug only expands in two directions, it is possible to direct the expansion forces so that they run parallel to the edge of the building material by turning

the plug. This allows for smaller edge distances.

- The slimline plug geometry makes it easy to push the plug into the drill hole. For a fast and simple installation.
- The anti-rotation lock prevents the plug rotating in the drill hole, thus guaranteeing a high level of installation safety.

Certificates



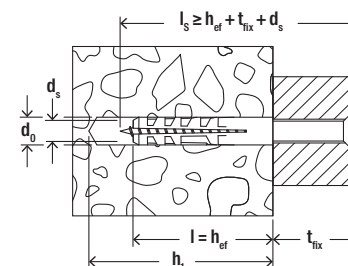
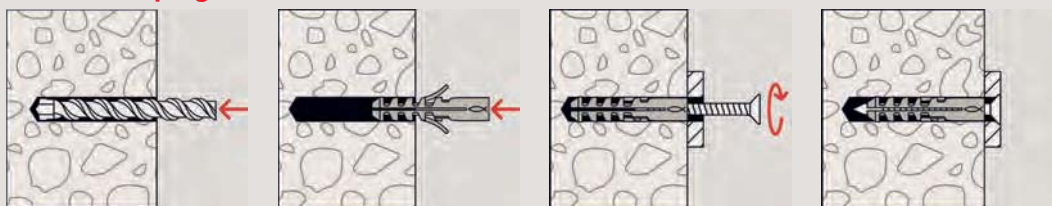
Building materials

- Concrete
- Solid sand-lime brick
- Natural stone with dense structure
- Solid brick made from lightweight concrete
- Solid brick

Functioning

- The expansion plug S is suitable for pre-positioned and push-through installation.
- When turning in the screw, the expansion plug S expands in two directions, thus providing a secure anchoring in the building material.
- The required screw length is given by the plug length + plaster and/or insulation material thickness + fixture thickness + 1 x screw diameter.
- Suitable for wood and chipboard screws.
- The edge distance must be at least one plug length.
- For installations close to the edge, turn the plug so that the expansion force acts parallel to the edge.

Installation plug S



6

Technical data

Expansion plug S



S

Item	Standard	Double-pack	Drill hole diameter	Anchor length	Min. drill hole depth	Wood and chipboard screws	Sales unit
	Item No.	Item No.	d_0 [mm]	l [mm]	h_1 [mm]	d_s [mm]	[pcs]
S 4	050104	—	4	20	25	2 - 3	200
S 5	050105	—	5	25	35	3 - 4	100
S 5	—	050124	5	25	35	3 - 4	200
S 6	050106	—	6	30	40	4 - 5	100
S 6	—	050125	6	30	40	4 - 5	200
S 8	050108	—	8	40	55	4,5 - 6	100
S 8	—	050126	8	40	55	4,5 - 6	200
S 10	050110	—	10	50	70	6 - 8	50
S 10	—	050127	10	50	70	6 - 8	100
S 12	050112	—	12	60	80	8 - 10	25
S 14	050114	—	14	75	90	10 - 12	20
S 16	050116	—	16	80	100	12 (1/2")	10
S 20	050120	—	20	90	120	16	5

Technical data

Expansion plug S in bucket



S in bucket

Item	Item No.	Drill hole diameter	Min. drill hole depth	Anchor length	Wood and chipboard screws	Sales unit
		d_0 [mm]	h_1 [mm]	l [mm]	d_s [mm]	[pcs]
S 6 in bucket	508024	6	40	30	4 - 5	3200
S 8 in bucket	508025	8	55	40	4,5 - 6	1400

Technical data

Assortment boxes



ST 1

Box S6/8/10

Item	Item No.	Contents	Sales unit [pcs]
ST 1 S8 S	060510	34 plugs S 8, 34 countersunk wood screws SH 5 x 60	1
ST 1 S6 S	060509	50 plugs S 6, 50 countersunk wood screws SH 4,5 x 45	1
ST 1 S6/8	060499	50 plugs S 6, 30 plugs S 8	1
Box S 6.8.10	060515	100 plugs S 6, 100 plugs S 8, 25 plugs S 10	1
Box empty	060500	—	1

Loads

S-Plug

Highest recommended loads¹⁾ for a single anchor.

The given loads are valid for wood screws with the specified diameter.

Type		S 4	S 5	S 6	S 8	S 10	S 12	S 14	S 16	S 20	
Wood screw diameter	[mm]	3	4	5	6	8	10	12	12	16	
Min. edge distance concrete c_{min}	[mm]	20	25	30	40	50	60	70	80	100	
Recommended loads in the respective base material F_{rec} ²⁾											
Concrete	≥ C20/25	[kN]	0.16	0.28	0.40	0.60	1.10	1.50	1.85	2.26	3.88
Solid brick	≥ Mz 12	[kN]	0.14	0.24	0.28	0.50	³⁾	³⁾	³⁾	³⁾	³⁾
Solid sand-lime brick	≥ KS 12	[kN]	0.14	0.24	0.28	0.55	³⁾	³⁾	³⁾	³⁾	³⁾
Aerated concrete	≥ AAC 4 (G4)	[kN]	³⁾	³⁾	0.05	0.07	0.16	0.28	0.40	³⁾	³⁾
Gypsum block		[kN]	³⁾	³⁾	³⁾	0.15	0.23	0.37	0.60	³⁾	³⁾

¹⁾ Required safety factors are considered.

²⁾ Valid for tensile load, shear load and oblique load under any angle.

³⁾ Due to that the failure of the substrate varies too much no reproducible values can be given.