

## The installation-friendly nylon plug with 2-way expansion



Small shelves



Signs

### BUILDING MATERIALS

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

### CERTIFICATES



### ADVANTAGES

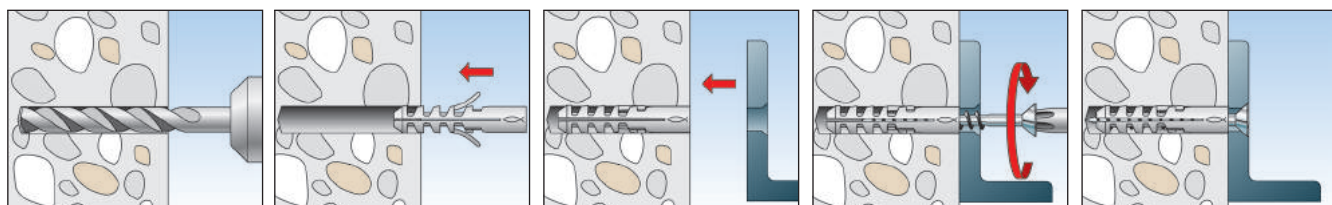
- The rimless plug sleeve allows for the plug to be set as deep as required below the plaster to the bearing substrate to achieve the maximum load-bearing capacity.
- As the plug only expands in two directions, it is possible to direct the expansion forces so that they run parallel to the edge of the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

### APPLICATIONS

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

### 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.

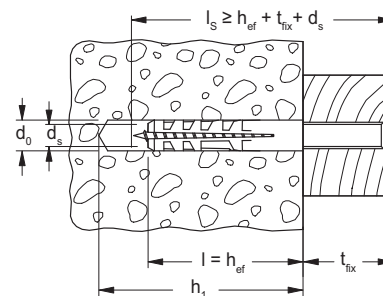


# Expansion plug S

## TECHNICAL DATA



Expansion plug S



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

6

General fixings

## TECHNICAL DATA



S in bucket

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

## TECHNICAL DATA



Stacking box ST

fischerbox

6 General fixings

Item	Art.-No.	Contents	Sales unit [pcs]
<b>ST 1 S8 S</b>	<b>060510</b>	34 plugs S 8, 34 countersunk wood screws SH 5 x 60	1
<b>ST 1 S6 S</b>	<b>060509</b>	50 plugs S 6, 50 countersunk wood screws SH 4,5 x 45	1
<b>ST 1 S6/8</b>	<b>060499</b>	50 plugs S 6, 30 plugs S 8	1
<b>Box S 5.6.8</b>	<b>060513</b>	100 plugs S 5, 100 plugs S 6, 100 plugs S 8	1
<b>Box S 6.8.10</b>	<b>060515</b>	100 plugs S 6, 100 plugs S 8, 25 plugs S 10	1
<b>Box empty</b>	<b>060500</b>	–	1

## LOADS

### Expansion plug S

Highest recommended loads<sup>1)</sup> for a single anchor.

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

Type		S4	S5	S6	S8	S10	S12	S14	S16	S20
Wood screw diameter	∅ [mm]	3	4	5	6	8	10	12	12	16
Min. edge distance concrete	c <sub>min</sub> [mm]	20	25	30	40	50	60	70	80	100
<b>Recommended loads in the respective base material F<sub>rec</sub><sup>2)</sup></b>										
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	- <sup>3)</sup>	- <sup>3)</sup>	- <sup>3)</sup>	- <sup>3)</sup>	- <sup>3)</sup>
Solid sand-lime brick	≥ KS 12 [kN]	0,14	0,24	0,28	0,55	- <sup>3)</sup>	- <sup>3)</sup>	- <sup>3)</sup>	- <sup>3)</sup>	- <sup>3)</sup>
Aerated concrete	≥ AAC 4 [kN]	- <sup>3)</sup>	- <sup>3)</sup>	0,05	0,07	0,16	0,28	0,40	- <sup>3)</sup>	- <sup>3)</sup>
Gypsum block	[kN]	- <sup>3)</sup>	- <sup>3)</sup>	- <sup>3)</sup>	0,15	0,23	0,37	0,60	- <sup>3)</sup>	- <sup>3)</sup>

<sup>1)</sup> Required safety factors are considered.

<sup>2)</sup> Valid for tensile load, shear load and oblique load under any angle.

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

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