

The powerful nylon plug with 4-way expansion



BUILDING MATERIALS

- Concrete
- Vertically perforated brick
- Hollow blocks made from lightweight concrete
- Cavity floor slabs made from bricks and concrete
- Perforated sand-lime brick
- Solid sand-lime brick
- Natural stone with dense structure
- Aerated concrete
- Solid panel made from gypsum
- Solid brick made from lightweight concrete
- Solid brick

APPROVALS



ADVANTAGES

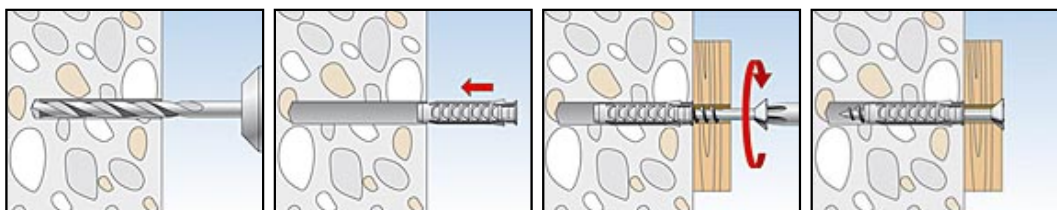
- The 4-way expansion provides the optimum force distribution in the material, and offers high load-bearing capacities in solid and hollow building materials.
- The expansion-free plug neck prevents the creation of expansion forces on the material surface whilst screwing in the screw. This helps to prevent damage to tiles and plaster.
- The pronounced rim prevents the plug from slipping into the drill hole, thus allowing for a simple installation.
- The greater anchorage depth of the SX 6x50, 8x65 and 10x80 means that the plug is especially suited to fixings in hollow building materials, aerated concrete and to bridge plaster.

APPLICATIONS

- Lighting
- Wardrobes
- Motion detectors
- Skirting
- Light shelves
- Mirror cabinets
- Letter boxes
- TV consoles
- Trellis
- Folding shutters
- Bath and toilet installations

FUNCTIONING

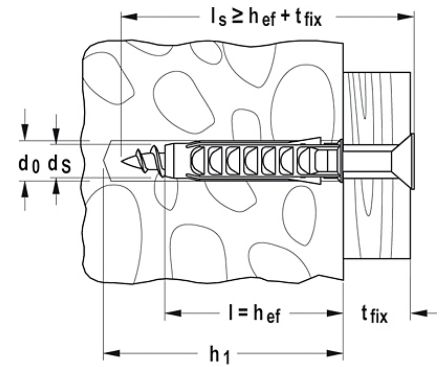
- The SX is suitable for pre-positioned and push-through installation.
- When turning in the screw, the SX expands in four directions, thus providing a secure anchoring in the building material.
- The required screw length is given by: Plug length + fixture thickness + 1 x screw diameter.
- Suitable for wood, chipboard and spacing screws (fischer ASL, see page).



TECHNICAL DATA



Expansion plug SX



Article name	Art.-No.	Drill hole diameter d_0 [mm]	Min. drill hole depth h_1 [mm]	Anchor length l [mm]	Max. fixture thickness t_{fix} [mm]
SX 4 x 20	070004	4	25	20	
SX 5 x 25	070005	5	35	25	
SX 6 x 30	070006	6	40	30	
SX 6 x 30 S/10	070021	6	40	30	10
SX 6 x 50	024827	6	60	50	
SX 6 x 50 R	078185	6	60	50	
SX 8 x 40	070008	8	50	40	
SX 8 x 40 S/20	070022	8	50	40	20
SX 8 x 65	024828	8	75	65	
SX 10 x 50	070010	10	70	50	
SX 10 x 80	024829	10	95	80	
SX 12 x 60	070012	12	80	60	
SX 14 x 70	070014	14	90	70	
SX 16 x 80	070016	16	100	80	

LOADS

Plug SX

Highest recommended loads¹⁾ for a single anchor.

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

Type		SX 4 x 20	SX 5 x 25	SX 6 x 30 SX 6 x 50	SX 8 x 40 SX 8 x 65	SX 10 x 50	SX 10 x 80	SX 12 x 60	SX 14 x 70	SX 16 x 80
Screw diameter	Ø [mm]	3	4	5	6	8	8	10	12	12
Min. edge distance in concrete	c _{min} [mm]	-	-	35	40	50	50	65	100	120
Recommended loads in the respective base material F_{rec}²⁾										
Concrete	≥ C20/25 [kN]	0,16	0,30	0,65	0,70	1,20	1,20	1,70	2,00	2,60
Solid brick	≥ Mz 12 [kN]	0,11	0,25	0,30	0,60	0,65	1,20	0,70	0,80	0,90
Solid sand lime stone	≥ KS 12 [kN]	0,17	0,30	0,50	0,60	1,20	1,20	1,70	2,00	2,60
Aerated concrete	≥ PB2, PP2 (G2) [kN]	0,03	0,03	0,03	0,04	0,09	0,20	0,14	0,30	0,40
Aerated concrete	≥ PB4, PP4 (G4) [kN]	0,07	0,09	0,09	0,14	0,30	0,60	0,45	0,50	0,60
Vertically perforated bricks	≥ Hlz 12 (ρ ≥ 1.0 kg/dm ³) [kN]	0,13	0,07	0,07	0,17	0,17	0,50	0,26	0,40	0,60
Perforated sand-lime brick	≥ KSL 12 [kN]	0,15	0,17	0,30	0,35	0,30	0,80	0,35	0,30	0,40
Plaster wall	[kN]	-	-	-	0,26	0,37	-	1,00	1,00	-

¹⁾ Includes the safety factor 7.

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