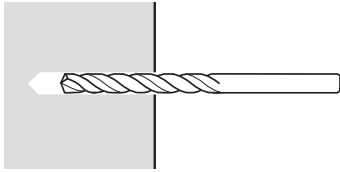




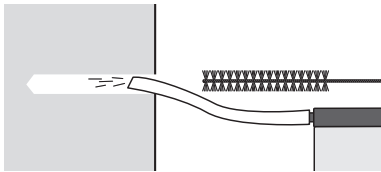
Installation:

For fixing
in solid brick and concrete

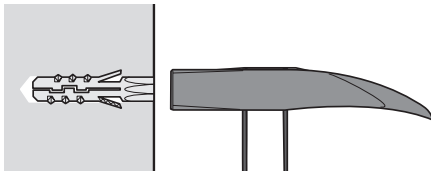
1 Drill a hole with correct diameter and depth



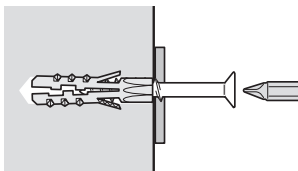
2 Clean the drilled hole thoroughly



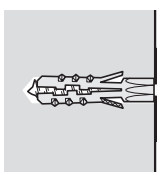
3 Insert Super - use a hammer if necessary



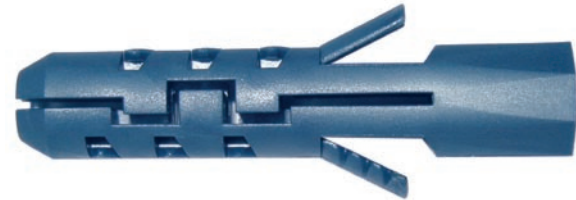
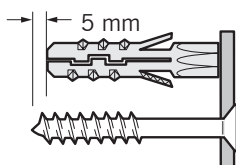
4 Use screw size as recommended. When tightened, the plug is pressed against the drilled hole



5 The installation is finished



note Always use a screw which is min. 5 mm longer than the plug + the fixing object



Advantages:

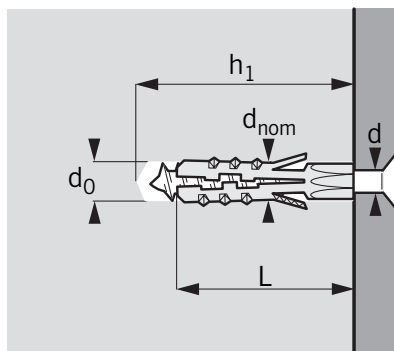
High load capacities in concrete and solid brick.
Rotation in the drilled hole is prevented by the octagonal neck and strong wings.
Useable as through fixing due to knock-in protection.
The construction of Expandet Super ensures self-centering of the screw.

Materials:

Expandet Super is made of Nylon (PA6).
Withstands temperatures from -40°C to +80°C.

Further information:

See overleaf



Type	Dimensions			Fixing		Load Capacities			
	d_{nom}	L	d <small>Chipboard & Wood</small>	d_0	h_1	Concrete 25 N/mm²		Solid brick 15 N/mm²	
	Outside diameter of anchor mm	Anchor length mm	Screw diameter mm	Drill hole diameter mm	Depth of drilled hole (Min.) mm	Recommended tension load kN*	Recommended shear load kN*	Recommended tension load kN [◇]	Recommended shear load kN [◇]
Expandet Super®									
4x20	4	20	2,0- 3,0	4	30	(0,3)	(0,1)	(0,1)	(0,1)
5x25	5	25	2,5- 4,0	5	35	1,2 (0,3)	0,3	0,5 (0,3)	0,3
6x30	6	30	3,5- 5,0	6	40	1,3 (0,6)	0,6	0,9 (0,6)	0,4
7x35	7	35	4,0- 5,5	7	45	1,4 (0,6)	0,6	1,0 (0,6)	0,6
8x40	8	40	4,5- 6,0	8	50	1,6 (1,0)	1,2	1,3 (1,0)	1,2
10x50	10	50	6,0- 8,0	10	60	3,2	2,4	1,7	1,4
12x60	12	60	8,0- 10,0	12	70	4,0	3,6	2,2	2,0
14x70	14	70	10,0- 12,0	14	80	5,0	4,7	-	-
16x80	16	80	12,0- 14,0	16	90	5,8	5,8	-	-
20x90	20	90	14,0- 16,0	20	100	8,0	6,5	-	-

♦ Recommended loads are valid for concrete \geq C 20/25, not influenced by edge distance and/or spacing, and only together with largest recommended woodscrew.
Loads in () are valid for largest recommended chipboardscrew. Shear loads are only valid together with largest recommended wood screw.
Safety factor is included (≥ 3). 1 kN \approx 100 kg.

◇ Recommended loads are valid for solid brick with a compressive strength \geq 15 N/mm², not influenced by edge distance and/or spacing, and only together with largest recommended woodscrew.
Loads in () are valid for largest recommended chipboardscrew. Shear loads are only valid together with largest recommended wood screw.
Safety factor is included (≥ 3). 1 kN \approx 100 kg.

Important: See Expandet's "Principles for fastening" for general information on fastening as well as information on limited liability.
(Can be downloaded at www.expandet.com)