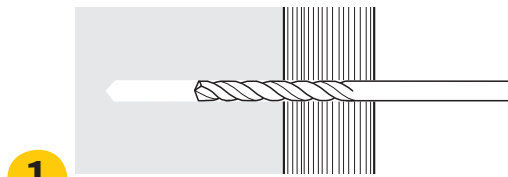
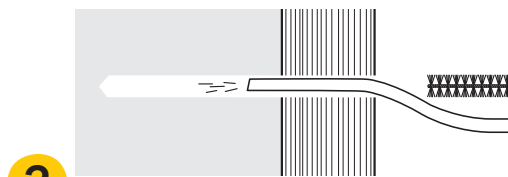


**8 mm SUPER FRAME FIXING**

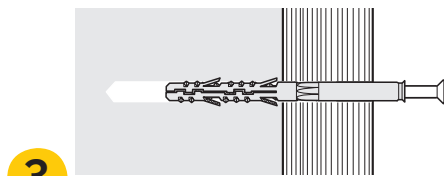
**Installation:**



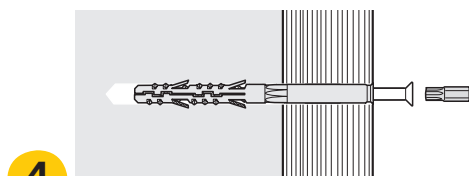
**1** Drill a 8 mm hole through fixture and into the wall. Use HSS-drill in aerated concrete and other solid low density base-materials. In hollow brick, only use rotary drilling



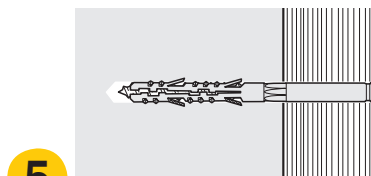
**2** Clean the drilled hole thoroughly



**3** Insert 8 mm Super Frame Fixing as through fixing



**4** Tighten the screw



**5** The installation is completed

For fixing of door and window frames, wooden laths, substructures, cladding etc. in concrete, aerated concrete, solid and hollow brick



**Advantages:**

- Through fixing
- High load capacities
- All-round use - useable in several building material
- Resistant to vibrations
- No thermal bridge
- Supplied assembled.

**Materials:**

Expandet 8 mm Super Frame Fixing is supplied with zinc plated screw with countersunk head (torx 30):  
 Anchor: Nylon (PA6).  
 Withstands temperatures from -40°C til +80°C.  
 Screw: Galvanized steel  $f_{uk} = 500 \text{ N/mm}^2$   $f_{uk} = 400 \text{ N/mm}^2$ .  
 Zinc plated min. 5  $\mu\text{m}$ .

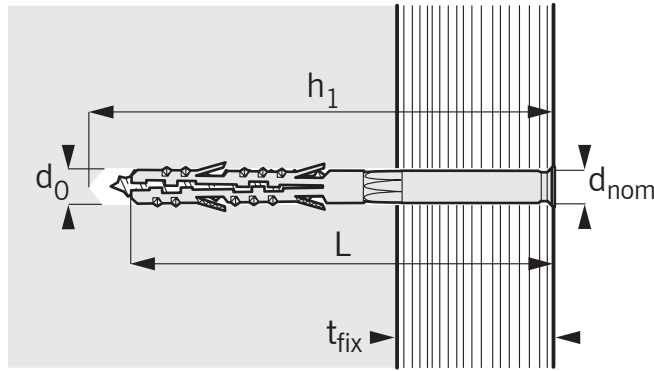
**Accessories:**

- Self-adhesive FastCap covercaps.
- Covercaps.

**Further information:**

See overleaf.

## 8 mm SUPER FRAME FIXING



Type	Dimensions			Fixing	
	$d_{nom}$	L	$t_{fix}$	$d_o$	$h_1$
Expandet 8 mm Super Frame Fixing	Outside diameter of anchor mm	Anchor length mm	Thickness of fixture (Max.) mm	Drill hole diameter mm	Depth of drill hole (Min.) mm
8x 80	8	80	20	8	90
8x100	8	100	40	8	110
8x120	8	120	60	8	130

Type	Load Capacities									
	$N_{Rd}$	$V_{Rd}$	$N_{Rd}$	$V_{Rd}$	$F_{Rd}$	$F_{Rd}$	$N_{Rd}$	$V_{Rd}$	$N_{Rd}$	$V_{Rd}$
Expandet 8 mm Super Frame Fixing	Aerated concrete P4 Design resistance tension kN <sup>†</sup> / shear kN <sup>†</sup>		Aerated concrete P2 Design resistance tension kN <sup>†</sup> / shear kN <sup>†</sup>		Leca 3 N/mm <sup>2</sup> Design resistance kN <sup>†</sup>	Hollow brick 22 Design resistance kN <sup>†</sup>	Solid brick Design resistance tension kN <sup>‡</sup> / shear kN <sup>‡</sup>		Concrete Design resistance tension kN <sup>‡</sup> / shear kN <sup>‡</sup>	
8x 80	0,60	0,50	0,27	0,35	0,37	0,65	1,44	1,20	1,64	1,80
8x100	0,60	0,50	0,27	0,35	0,37	0,65	1,44	1,20	1,64	1,80
8x120	0,60	0,50	0,27	0,35	0,37	0,65	1,44	1,20	1,64	1,80

- Design resistance in aerated concrete PP2 and PP4 is valid for a single anchor not influenced by edge distance and/ or spacing: Minimum edge distance PP4  $\geq$  50 mm and minimum spacing  $\geq$  100 mm  
Minimum edge distance PP2  $\geq$  100 mm and minimum spacing  $\geq$  100 mm
- Design resistance – independent of load direction - in Leca with a minimum compressive strength of 3 N/mm<sup>2</sup> is valid for a single anchor not influenced by edge distance and/ or spacing: Minimum edge distance  $\geq$  100 mm and minimum spacing  $\geq$  100 mm.
- Design resistance – independent of load direction - in hollow brick with a minimum compressive strength of 15 N/mm<sup>2</sup> is valid for a single anchor not influenced by edge distance and/ or spacing: Minimum edge distance  $\geq$  100 mm and minimum spacing  $\geq$  100 mm.
- Design resistance in solid brick with a minimum compressive strength of 15 N/mm<sup>2</sup> is valid for a single anchor not influenced by edge distance and/ or spacing: Minimum edge distance  $\geq$  100 mm and minimum spacing  $\geq$  100 mm.
- Design resistance in concrete C20/25 is valid for a single anchor not influenced by edge distance and/ or spacing: Minimum edge distance  $\geq$  50 mm and minimum spacing  $\geq$  100 mm.

Combined resistance shall be verified if both tension and shear actions are applied. See "Principles for Fastening" page 5 (Verification Method 1)

Partial safety factor for material ( $\gamma_m$ ) is included. Partial safety factor for actions ( $\gamma_f$ ) must be applied according to national building code.

If no guidance for  $\gamma_f$  exists Expandet recommend a partial safety factor for actions of minimum 1,5.

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](http://www.expandet.com))



EXPANDET SCREW ANCHORS A/S  
Svendebuen 2-6  
DK-3230 Græsted  
Denmark

Telephone: +45 70 22 79 79  
Telefax: +45 70 22 79 89

Version 09.001

[www.expandet.com](http://www.expandet.com)  
[expandet@expandet.dk](mailto:expandet@expandet.dk)

Graphic: Vedkom /Expandet  
©Expandet Screw Anchors A/S, 2006  
All rights reserved