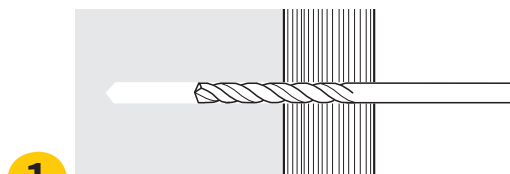




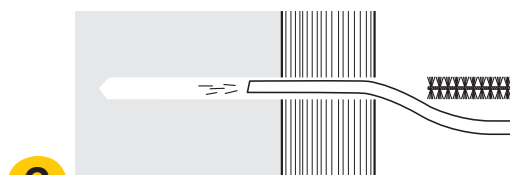
8 mm SUPER FRAME FIXING

Installation:

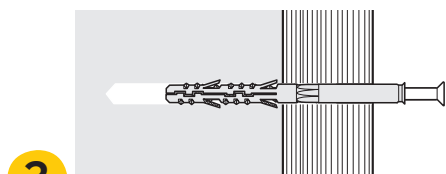
For fixing of door and window frames, wooden laths, substructures, cladding etc. in concrete, aerated concrete, solid and hollow brick



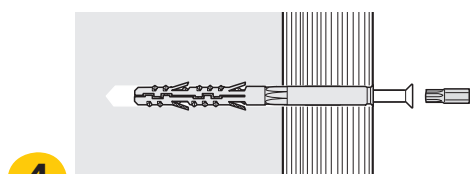
1 Drill a 8 mm hole through fixture and into the wall. Use HSS-drill in aerated concrete and other solid low density base-materials. In hollow brick, only use rotary drilling



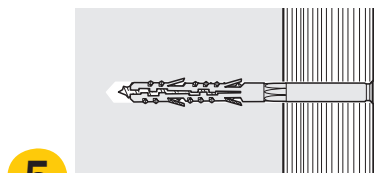
2 Clean the drilled hole thoroughly



3 Insert 8 mm Super Frame Fixing as through fixing



4 Tighten the screw



5 The installation is completed



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 μm .

Accessories:

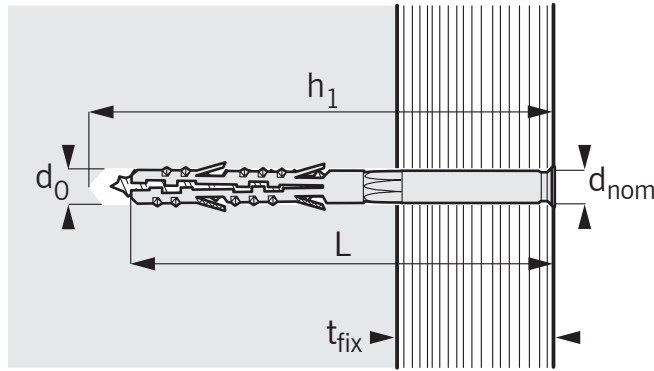
- Self-adhesive FastCap covercaps.
- Covercaps.

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 [†] / shear kN [†]		Aerated concrete P2 Design resistance tension kN [†] / shear kN [†]		Leca 3 N/mm² Design resistance kN [†]	Hollow brick 22 Design resistance kN [†]	Solid brick Design resistance tension kN [‡] / shear kN [‡]		Concrete Design resistance tension kN [‡] / shear kN [‡]	
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/mm² 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/mm² 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/mm² 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 (γ_m) is included. Partial safety factor for actions (γ_f) must be applied according to national building code.

If no guidance for γ_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)



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Graphic: Vedkom/Expandet
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