

Expandet 8 mm Super Frame Fixing

Expandet 8 mm Super Frame Fixing 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.
- Resistant to vibrations.
- No thermal bridge.
- Especially designed for aerated concrete.

ACCESSORIES

Self-adhesive FastCap covercaps.



Covercaps.

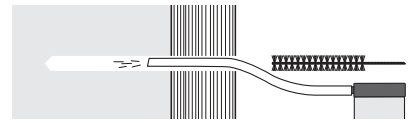


INSTALLATION:



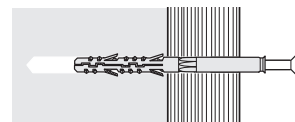
1]

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



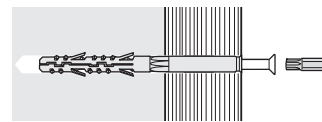
2]

Clean the drilled hole thoroughly



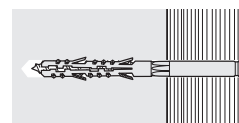
3]

Insert 8 mm Super Frame Fixing as through fixing



4]

Tighten the screw



5]

The installation is finished

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EXPANDET 8 MM SUPER FRAME FIXING (Technical Sheet No. 300)

TYPE DIMENSION	DRILL DIA. MM	DRILL DEPTH MM	THICKNESS OF FIXTURE (MAX.) MM	EXPANDET ARTICLE NO.	PCS. PER BOX	Part No	EAN 13 PER BOX
8 x 80	8	90	20	988080	50	N5L1608080	5708620202099
8 x 100	8	110	40	988100	50	N5L1608100	5708620202105
8 x 120	8	130	60	988120	50	N5L1608120	5708620202112

Type	Load capacities									
	Aerated concrete PP4		Aerated concrete PP2		Leca 3 N/mm ²	Hollow brick 22 N/mm ²	Solid brick		Concrete	
DIMENSION	Design tension load [▽] N _{Rd}	Design shear load [▽] V _{Rd}	Design tension load [▽] N _{Rd}	Design shear load [▽] V _{Rd}	Design tension load [▽] F _{Rd}	Design tension load [♦] F _{Rd}	Design tension load [◊] N _{Rd}	Design shear load [◊] V _{Rd}	Design tension load [◊] N _{Rd}	Design shear load [◊] V _{Rd}
8 x 80	0,60	0,50	0,27	0,35	0,37	0,65	1,44	1,20	1,64	1,80
8 x 100	0,60	0,50	0,27	0,35	0,37	0,65	1,44	1,20	1,64	1,80
8 x 120	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 ≥ 50 mm and minimum spacing ≥ 100 mm
Minimum edge distance PP2 ≥ 100 mm and minimum spacing ≥ 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 ≥ 100 mm and minimum spacing ≥ 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 ≥ 100 mm and minimum spacing ≥ 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 ≥ 100 mm and minimum spacing ≥ 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 ≥ 50 mm and minimum spacing ≥ 100 mm

Combined resistance shall be verified if both tension and shear actions are applied:

$$\left(\frac{N_{Sd}}{N_{Rd}}\right) + \left(\frac{V_{Sd}}{V_{Rd}}\right) \leq 1,2$$

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 ≈ 100 kg.