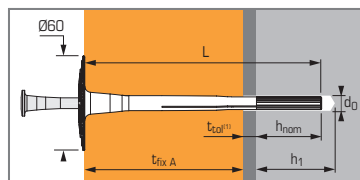




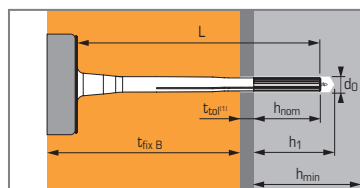
Screw-in anchor with plastic screw for mechanical fixing of the most common insulation materials, suitable for ETICS, for surface and countersunk installation



ETA 18/1101
EAD 330196-01-0604



A instruction : flush mounting



B instruction : deep mounting with cap

⁽¹⁾ t_{col} = glue thickness (≤ 10 mm) + thickness of equalization layer or non-load bearing coating (≤ 20 mm)

- **Deep mounting with cap:** (cf. B inst.)
Setting tool : code 054901
White EPS cap: code 054897
Grey EPS cap: code 054898
Mineral wool cap: code 054899

APPLICATION

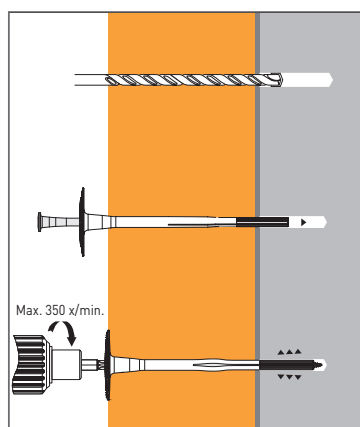
- Fixing all rigid insulation on solid or hollow material
- Removable fixing

MATERIAL

- **Anchor body:** polypropylene⁽¹⁾
- **Plastic nail:** PA 6 reinforced polyamide
- **Thermal transmittance:** 0.000 W/k
- **Plate stiffness :** 0,7 kN/mm
- **Temperature range in use:** $\geq 0^\circ\text{C}$

⁽¹⁾ Caution: the anchor must be protected from UV rays by a screen (rendering, panelling, etc.)

INSTALLATION



Technical data

Anchor size	Anchor depth	Insulation thickness**		Base material thickness	Drilling depth	Drilling diameter	Total anchor lenght	Code
	(mm) h_{nom}	(mm) t_{fix A}	(mm) t_{fix B}	(mm) h_{min}	(mm) h₁	(mm) d₀	(mm) L	Head Ø60
8X135/90	35*	90	110	100	45	8	95	054890
8X155/110		110	130				115	054891
8X175/130		130	150				135	054892
8X195/150		150	170				155	054893
8X215/170		170	190				175	054894
8X235/190		190	210				195	054895
8X255/210		210	230				215	054896
Plastic washer PP Ø90								057655
Plastic washer PA 6.6 Ø100 (countersunk)								054957
Plastic washer PA 6.6 Ø140								054929

* for E category material: $h_{nom} = 55$ mm and $t_{fix} - 20$ mm

** t_{fix} calculated with $t_{col} = 10$ mm

Characteristic loads (N_{Rk}) in kN

TENSILE

Base material	Anchor size $\varnothing 8$ h_{nom} : 25 mm	N_{Rk}
Concrete (C12/15 to C50/60)		1,2
Solid clay brick - EN 771-1 - $fbk = 20$ Mpa ⁽¹⁾		1,2
Calcium silicate solid units - EN 771-2 - $fbk = 12$ Mpa ⁽¹⁾		1,2
Lightweight concrete hollow block - EN 771-3 - $fbk = 4$ Mpa ⁽¹⁾		1,2
Lightweight aggregate concrete - EN 1520 (LAC) - $fbk = 4$ Mpa ⁽¹⁾		0,9
Perforated clay bricks - EN 771-1 - $fbk = 10$ Mpa ⁽¹⁾		0,6
Vertically perforated clay bricks - NORM B6124 - $fbk = 10$ Mpa ⁽¹⁾		0,9
Autoclaved aerated concrete P2-400 - EN 771-4 - $fbk = 2$ Mpa ⁽¹⁾		0,5

⁽¹⁾ For others masonry types, jobsite tests could be performed.

Design loads (N_{Rd}) and recommended loads (N_{rec}) for one anchor without edge or spacing influence in kN

$$N_{Rd} = \frac{N_{Rk}^{(1)}}{\gamma_M}$$

⁽¹⁾ Issue from ETA

$$N_{rec} = \frac{N_{Rk}^{(1)}}{\gamma_M \cdot \gamma_F}$$

TENSILE

Base material	Anchor size $\varnothing 8$ h_{nom} : 25 mm	N_{Rd}	N_{rec}
Concrete (C12/15 to C50/60)		0,60	0,43
Solid clay brick - EN 771-1 - $fbk = 20$ Mpa ⁽¹⁾		0,60	0,43
Calcium silicate solid units - EN 771-2 - $fbk = 12$ Mpa ⁽¹⁾		0,60	0,43
Lightweight concrete hollow block - EN 771-3 - $fbk = 4$ Mpa ⁽¹⁾		0,60	0,43
Lightweight aggregate concrete - EN 1520 (LAC) - $fbk = 4$ Mpa ⁽¹⁾		0,45	0,32
Perforated clay bricks - EN 771-1 - $fbk = 10$ Mpa ⁽¹⁾		0,30	0,21
Vertically perforated clay bricks - NORM B6124 - $fbk = 10$ Mpa ⁽¹⁾		0,45	0,32
Autoclaved aerated concrete P2-400 - EN 771-4 - $fbk = 2$ Mpa ⁽¹⁾		0,25	0,18

$\gamma_M = 2$; $\gamma_F = 1,4$

⁽¹⁾ For others masonry types, jobsite tests could be performed.

Spacing data

IN CONCRETE

Minimum distance between anchors and from edges and minimum thickness of concrete member (mm)		
S_{min}	C_{min}	h_{min}
100	100	100