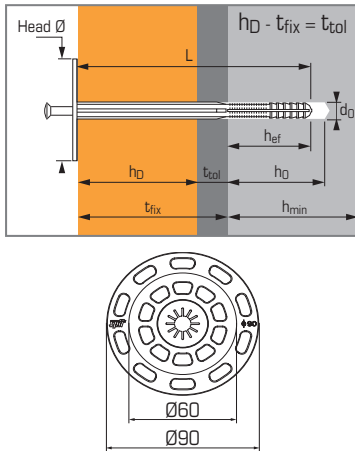




Expanding insulation anchor for fixing all rigid or flexible insulation



Technical data

Anchor size	Anchor depth (mm) h_{ef}	Insulation thickness (mm) t_{fix}	Drilling depth (mm) h₀	Drilling diameter (mm) d₀	Total anchor length (mm) L	Code	
						Head Ø50	Head Ø60
10X60/10-30	30	10-30	50	10	60	057599	-
10X95/45-65		45-65			95	-	057611
10X115/75-85		75-85			115	-	060001
10X135/95-105		95-105			135	-	057630
10X155/115-125		115-125			155	-	057640
10X175/135-145		135-145			175	-	057650
10X195/155-165		155-165			195	-	057651
10X215/175-185		175-185			215	-	057652
10X235/195-205		195-205			235	-	057653
Plastic washer Ø90							057655

APPLICATION

- Fixing all rigid insulation or flexible insulation (using the plastic washer Ø90) on solid or hollow material

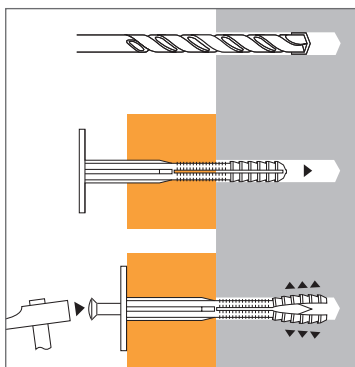
MATERIAL

- Anchor body:** polypropylene⁽¹⁾
- Expansion nail:** glass-fibre reinforced polyamid 6*⁽²⁾
- Temperature range in use:** -30°C to +80°C

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

⁽²⁾Except ISO 10X60/10-30 : polypropylene nail

INSTALLATION



Spacing data

IN CONCRETE

Minimum distance between anchors and from edges & minimum thickness of concrete (mm)

S _{min}	C _{min}	h _{min}
100	100	100

Characteristic resistance (N_{Rk}) in kN

TENSILE

Anchor size	10X60/10-30	10X95/45-65 → 10X235/195-205
Base material		
Concrete (C15/20)		
N _{Rk}	0,2	0,6
Concrete (C20/25 to C50/60)		
N _{Rk}	0,3	0,75
Clay bricks (f_c = 55 Mpa, bending test: 4,7 55 N/mm²)		
N _{Rk}	0,3	0,75
Hollow concrete blocks not rendered (f_c = 12,5 N/mm²)		
N _{Rk}	0,15	0,3
Hollow clay bricks type Eco-30 not rendered (f_c = 5,9 N/mm²)		
N _{Rk}	0,1	0,4

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

Anchor size	10X60/10-30	10X95/45-65 → 10X235/195-205
Base material		
Concrete (C15/20)		
N _{Rd}	0,10	0,30
N _{rec}	0,07	0,21
Concrete (C20/25 to C50/60)		
N _{Rd}	0,15	0,375
N _{rec}	0,11	0,27
Clay bricks (f_c = 55 Mpa, bending test: 4,7 N/mm²)		
N _{Rd}	0,15	0,375
N _{rec}	0,11	0,27
Hollow concrete blocks not rendered (f_c = 12,5 N/mm²)		
N _{Rd}	0,075	0,15
N _{rec}	0,05	0,10
Hollow clay bricks type Eco-30 not rendered (f_c = 5,9 N/mm²)		
N _{Rd}	0,05	0,20
N _{rec}	0,035	0,14

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

Characteristic resistance according to the technical reports TR025 and TR026

Thermal transmittance

Insulation thickness (h ₀) mm	Thermal transmittance (K) (W/K)
<150	0,001
150	0,000

Plate stiffness

Head Ø	Plate Resistance (kN)	Plate stiffness (kN/mm)
50	1,00	0,3
60	1,00	0,5
60 + washer Ø90	1,10	0,5