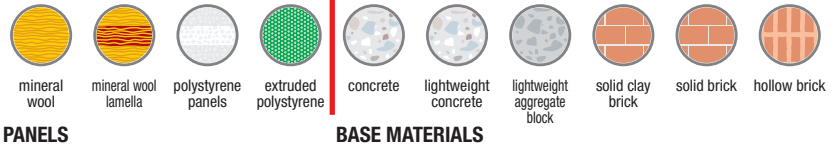


Vorpa ISO CE 8

Nylon fixing for insulation panels with European Technical Assessment

products group



Approved for

- concrete
- lightweight concrete
- lightweight aggregate blocks
- solid clay bricks
- solid brick
- hollow brick

To fix

- polystyrene panels
- extruded polystyrene
- mineral wool lamella/mineral wool



ETA 014
for use categories A-B-C-D-E



Ideal for applications on masonry coated by solid and soft heat insulating panels and insulation materials.

product information

Characteristics

- polyamide fixing with white galvanized steel pin, head coated with plastic suitable for all types of insulation materials. Use categories A-B-C-D-E
- reduced thermal transfer due to plastic endings of metal pin
- easy and quick installation, the expansion is carried out by hammering the pin inside the nylon fixing
- reduced embedment depth enables reduced drilling times
- special washer Ø140mm permits the fixing on lightweight insulation materials
- pin's head covered by fiberglass reinforced polyamide
- the steel pin is suitable for all types of insulation materials and particularly for rigid insulation materials

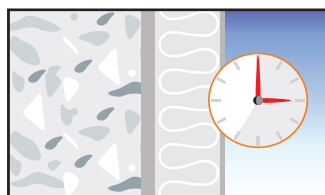
Installation

- to be mounted aligned with the insulation panels

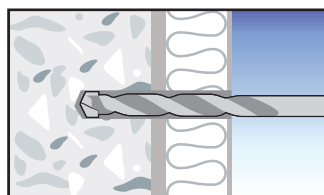
Suggestion for use

- always consider an appropriate safety factor
- check load bearing capacity values
- respect the installation data
- when calculating the usable length it is suggested to take into consideration eventual extra thicknesses such as glues, sealants, old plasters

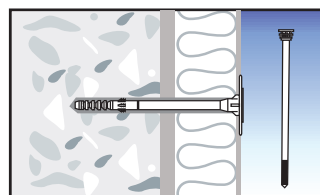
installation sequence



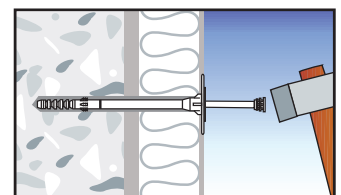
Wait till the sealant between the insulation panel and the base material is completely dry



Drill the base material with an appropriate drill bit

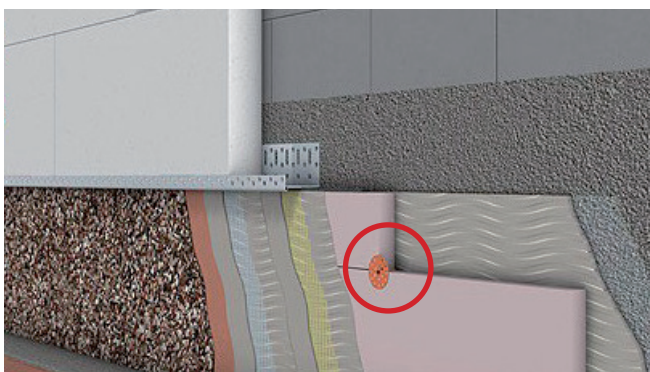


Insert the nylon fixing without pin until the washer rests against the insulation



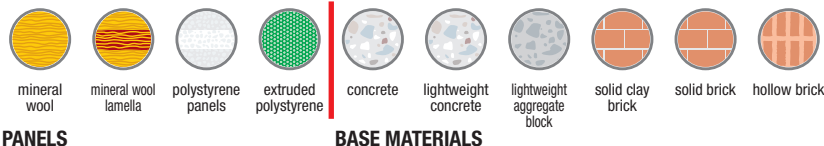
Fix the pin by hammering gently until full expansion, i.e. when the head is leveled with washer surface

Examples of applications



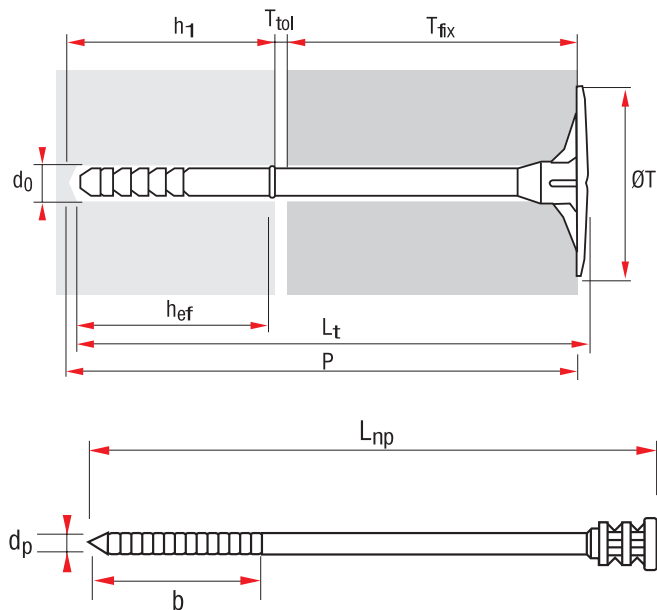
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Nylon fixing for insulation panels with European Technical Assessment



product code and technical data

Code	Description	L _t mm	d _o mm	h ₁ mm	h _{ef} mm	T _{fix} mm	P mm	ØT mm	d _p mm	L _{np} mm
5747	ISO CE 8 8/95	95	8	≥35 ⁽¹⁾ /≥75 ⁽²⁾	≥25 ⁽¹⁾ /≥65 ⁽²⁾	L _t - h _{ef} - T _{tot}	T _{fix} +T _{tot} +h _{ef}	60	4,8	100
5748	ISO CE 8 8/115	115	8	≥35 ⁽¹⁾ /≥75 ⁽²⁾	≥25 ⁽¹⁾ /≥65 ⁽²⁾	L _t - h _{ef} - T _{tot}	T _{fix} +T _{tot} +h _{ef}	60	4,8	120
5749	ISO CE 8 8/135	135	8	≥35 ⁽¹⁾ /≥75 ⁽²⁾	≥25 ⁽¹⁾ /≥65 ⁽²⁾	L _t - h _{ef} - T _{tot}	T _{fix} +T _{tot} +h _{ef}	60	4,8	140
5750	ISO CE 8 8/155	155	8	≥35 ⁽¹⁾ /≥75 ⁽²⁾	≥25 ⁽¹⁾ /≥65 ⁽²⁾	L _t - h _{ef} - T _{tot}	T _{fix} +T _{tot} +h _{ef}	60	4,8	160
5751	ISO CE 8 8/175	175	8	≥35 ⁽¹⁾ /≥75 ⁽²⁾	≥25 ⁽¹⁾ /≥65 ⁽²⁾	L _t - h _{ef} - T _{tot}	T _{fix} +T _{tot} +h _{ef}	60	4,8	180
5752	ISO CE 8 8/195	195	8	≥35 ⁽¹⁾ /≥75 ⁽²⁾	≥25 ⁽¹⁾ /≥65 ⁽²⁾	L _t - h _{ef} - T _{tot}	T _{fix} +T _{tot} +h _{ef}	60	4,8	200



- 1) = Use categories A,B,C,D
- 2) = Use category E

h_{min} = 100 mm
C_{min} = 100 mm
S_{min} = 100 mm

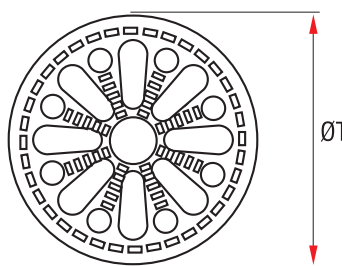
- L_t = Anchor length
- h₁ = Min. hole depth
- d_o = Hole diameter
- h_{ef} = Embedment depth
- T_{fix} = Fixture thickness
- P = Total depth of holes
- d_p = Pin diameter
- L_{np} = Pin length
- b = Pin's knurling length
- T_{tot} = Thickness of equalizing and/or non-load-bearing layer
- h_{min} = Min. base material thickness
- S_{min} = Min. anchor spacing
- C_{min} = Min. edge distance



DISCO 140

Accessories

Code	Description	ØT mm
55762	ISO DISCO CE 140	140



Characteristic loading values according to ETA
ATTENTION: An appropriate safety factor ≥ 2 should be applied on these values

ISO CE 8

Substrate materials	Class	Density Kg/dm ³	daN
			1 daN=1 kg
Pull out values in daN			
C12/15 concrete	A	≥ 2.25	50
C16/20 - C50/60 concrete	A	≥ 2.30	75
Clay bricks / calcium silicate bricks	B	≥ 2.00	75
Calcium Silicate hollow blocks	C	≥ 1.60	75
Vertically perforated clay bricks	C	≥ 1.20	60
Porotherm 25	C	≥ 0.80	40
Lightweight aggregate concrete blocks LAC	D	≥ 0.88	60
Autoclaved aerated concrete elements AAC2	E	≥ 0.35	75
Autoclaved aerated concrete elements AAC7	E	≥ 0.65	90

ETAG 014 light fixings

Use Category	Building materials
A	Normal weight concrete
B	Solid masonry - Silicate blocks
C	Hollow or perforated masonry
D	Lightweight aerated concrete
E	Autoclave aerated concrete