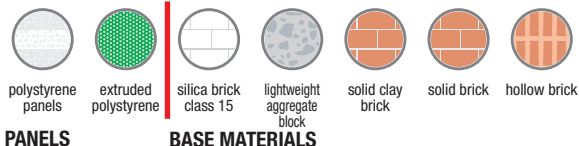


Vorpa ISO CE 10 MF

Nylon fixing for insulation panels with European Technical Assessment



products group



Approved for

- silica brick class 15
- lightweight aggregate block
- solid clay brick
- solid brick
- hollow brick

To fix

- polystyrene panels
- extruded polystyrene
- heat insulating and soundproofing panels

ISO CE 10 MF



ETA 014
for use categories B-C-E



Ideal for applications on compact masonry coated by heat insulating panels and rigid insulation materials

product information

Characteristics

- polyamide fixing with pin made of fiberglass reinforced polyamide suitable for the fixing of rigid insulation panels on perforated and compact materials. Use categories B-C-E
- reduced thermal transfer
- easy and quick installation, the expansion is carried out by hammering the pin inside the nylon fixing
- reduced embedment depth enables reduced drilling times
- pin made of fiberglass reinforced polyamide
- particularly indicated to fix rigid insulation materials

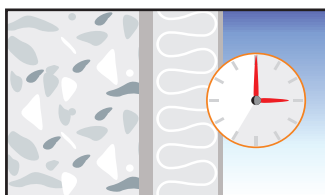
Installation

- to be mounted aligned with the insulation panels

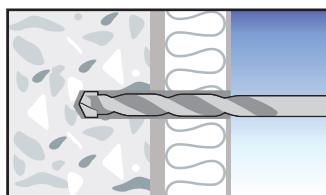
Suggestion for use

- 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

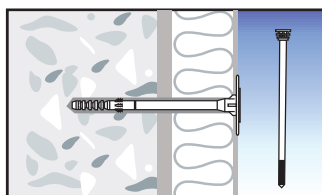
installation sequence



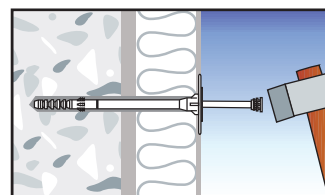
Wait till the sealant between the insulation panel and the base material is completely dry



Drill the base material with an appropriate drill bit



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



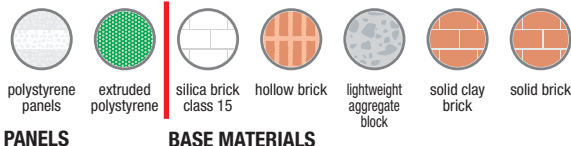
Fix the pin by hammering gently until full expansion, i.e. when the head is leveled with washer surface

Examples of applications



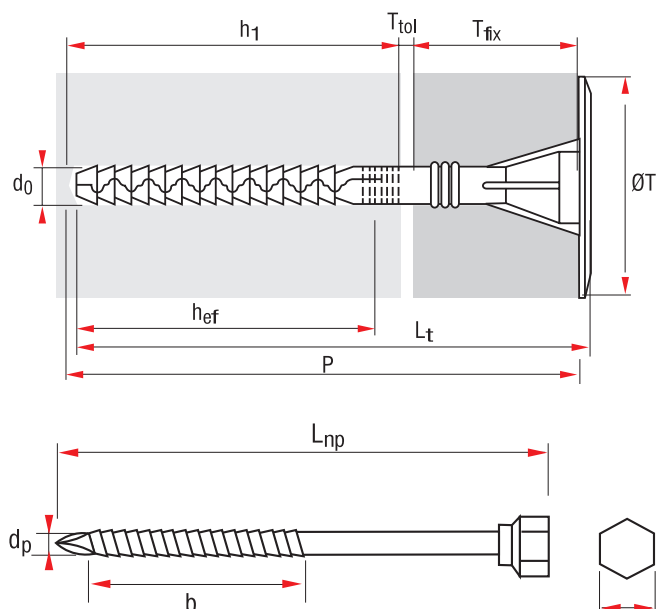
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Nylon fixing for insulation panels with European Technical Assessment



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	b mm	S mm
5755	ISO CE MF 10 10/140	140	10	90	80	L _t -T _{tol} -h _{ef}	T _{fix} +T _{tol} +h ₁	60	5,3	140	85	10
5756	ISO CE MF 10 10/160	160	10	90	80	L _t -T _{tol} -h _{ef}	T _{fix} +T _{tol} +h ₁	60	5,3	160	85	10
5757	ISO CE MF 10 10/180	180	10	90	80	L _t -T _{tol} -h _{ef}	T _{fix} +T _{tol} +h ₁	60	5,3	180	85	10
5758	ISO CE MF 10 10/200	200	10	90	80	L _t -T _{tol} -h _{ef}	T _{fix} +T _{tol} +h ₁	60	5,3	200	85	10
5759	ISO CE MF 10 10/220	220	10	90	80	L _t -T _{tol} -h _{ef}	T _{fix} +T _{tol} +h ₁	60	5,3	220	85	10
5760	ISO CE MF 10 10/260	260	10	90	80	L _t -T _{tol} -h _{ef}	T _{fix} +T _{tol} +h ₁	60	5,3	260	85	10
5761	ISO CE MF 10 10/300	300	10	90	80	L _t -T _{tol} -h _{ef}	T _{fix} +T _{tol} +h ₁	60	5,3	300	85	10



- 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_{tol} = 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

fixings for insulation

Characteristic loading values according to ETA

ATTENTION: An appropriate safety factor ≥ 2 should be applied on these values

ISO CE 10 MF

Substrate materials	Class	Density Kg/dm ³	daN
			1 daN=1 kg
Pull out values in daN			
Solid clay brick	B	≥ 2.00	75
Perforated brick	C	≥ 1.20	80
Calcium silicated solid bricks	C	≥ 1.60	50
Porotherm 25	C	≥ 0.80	50
Autoclaved aerated concrete AAC2	E	≥ 0.35	30
Autoclaved aerated concrete AAC7	E	≥ 0.65	85

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