KI-10 FACADE FIXINGS WITH PLASTIC PIN

Hammerset insulation fixing with reinforced plastic nail

- ETA-07/0291

CE ETA

Product information

Features and benefits

- Installation in all substrates (categories A,B,C,D,E).
- The plastic nail reduces heat transmission (value 0.0W/K)
- Plastic nail reinforced with glass fibre allows fast and trouble-free installation with correct expansion of the plug.
- Expansion zone designed for low embedment depths, reducing the amount of drilling required.
- Plate stiffness (value 0.5 kN/mm) ensures smooth elevation surface and stable insulation system.

Applications

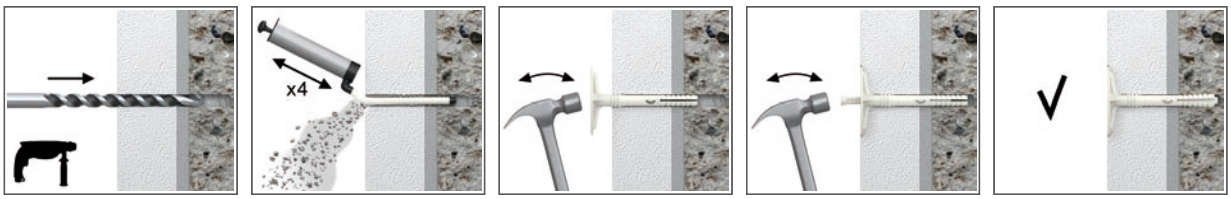
- Polystyrene boards
- Mineral wool
- Light wood wool building boards
- Polyurethane boards
- Wood fibre boards
- Lightweight recycled panels

Base materials

Approved for use in:

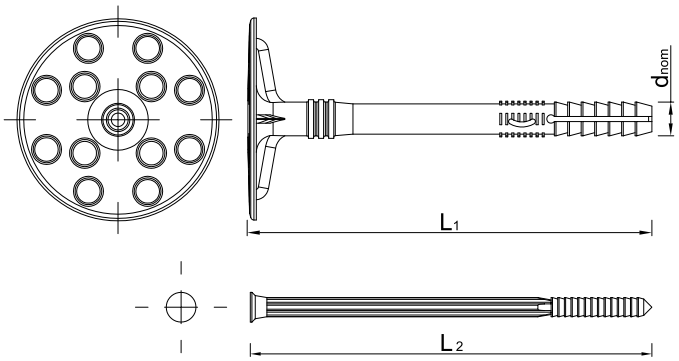
- Concrete C12/15-C50/60 (Use category A)
- Solid Brick (Use category B)
- Solid Sand-lime Brick (Use category B)
- Hollow Sand-lime Brick (Use category C)
- Vertically-perforated clay block (Use category C)
- Hollow Lightweight Concrete Block (Use category C)
- Lightweight Concrete Block (Use category C)

Installation guide



1. Drill a hole of required diameter and depth
2. Lightly tap the plastic sleeve through the insulation material into hole with a hammer, until fixing depth is reached
3. Lightly tap the plastic nail into the plastic sleeve until fixing is secure and flush with insulation material.
4. Embedment depth of min 25 in masonry, 40mm in perforated materials and 60mm in lightweight concrete block and aerated concrete
5. Drilling depth of min 35 in masonry, 50mm in perforated materials and 70mm in lightweight concrete block and aerated concrete

Product information



Size	Product Code	Fixing			Fixture					
		Diameter	Length	Plate diameter	Min. thickness			Max. thickness		
		d	L	D	t_{fix} A, B, C	t_{fix} D	t_{fix} E	t_{fix} A, B, C	t_{fix} D	t_{fix} E
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
Ø10	KI-070	10	70	60	35	20	0	55	40	20
	KI-090	10	90	60	55	40	20	75	60	40
	KI-120	10	120	60	85	70	50	105	90	70
	KI-140	10	140	60	105	90	70	125	110	90
	KI-160	10	160	60	125	110	90	145	130	110
	KI-180	10	180	60	145	130	110	165	150	130
	KI-200	10	200	60	165	150	130	185	170	150
	KI-220	10	220	60	185	170	150	205	190	170

Installation data

Substrate			A, B, C	D	E
Fixing diameter	d	[mm]	10	10	10
Hole diameter in substrate	d_0	[mm]	10	10	10
Min. hole depth in substrate	h_0	[mm]	35	50	70
Installation depth	h_{nom}	[mm]	25	40	60
Min. substrate thickness	h_{min}	[mm]	100	100	100
Min. spacing	s_{min}	[mm]	100	100	100
Min. edge distance	c_{min}	[mm]	100	100	100

Basic performance data

Performance data for single anchor in tension without influence of edge distance and spacing

Substrate		Concrete C12/15	Concrete min. C16/20	Solid brick	Sand-lime solid brick	Sand-lime hollow brick	Perforated ceramic brick	Perforated ceramic brick (i.e.	MEGA MAX	Lightweight concrete hollow block	Lightweight concrete solid block	Aerated concrete
Embedment depth h_{ef}	[mm]	25	25	25	25	25	40	40	40	40	60	60
MEAN ULTIMATE LOAD $N_{Ru,m}$												
KI-10	[kN]	0.78	0.7	0.72	0.89	0.96	0.74	0.57	0.67	0.75	0.78	0.25
CHARACTERISTIC LOAD N_{Rk}												
KI-10	[kN]	0.5	0.5	0.5	0.6	0.6	0.4	0.4	0.3	0.4	0.5	0.1
DESIGN LOAD N_{Rd}												
KI-10	[kN]	0.25	0.25	0.25	0.3	0.3	0.2	0.2	0.15	0.2	0.25	0.05
RECOMMENDED LOAD N_{rec}												
KI-10	[kN]	0.18	0.18	0.18	0.21	0.21	0.14	0.14	0.11	0.14	0.18	0.04

Basic performance data

Fixing type		KI-10
Plate resistance	[kN]	0.86
Plate stiffness	[kN/mm]	0.6
Point thermal transmittance ?	[W/K]	0

Product Commercial Data

Size	Product Code	Fixing			Quantity [pcs]			Weight [kg]			Bar Codes	Art No.
		Diameter [mm]	Length [mm]	Plate diameter [mm]	Box	Outer	Pallet	Box	Outer	Pallet		
Ø10	KI-070	10	70	60	250	250	14000	2.5	2.5	167.4	5906675210049	20206
	KI-090	10	90	60	250	250	14000	2.5	2.5	170.0	5906675210148	20208
	KI-120	10	120	60	250	250	12000	3.2	3.2	181.2	5906675210247	20215
	KI-140	10	140	60	250	250	10000	4.0	4.0	190.0	5906675210346	20221
	KI-160	10	160	60	250	250	10000	4.2	4.2	198.0	5906675210445	20228
	KI-180	10	180	60	250	250	7500	4.5	4.5	165.0	5906675210544	20235
	KI-200	10	200	60	250	250	7500	5.1	5.1	181.5	5906675210643	20242
	KI-220	10	220	60	250	250	7500	5.1	5.1	182.1	5906675159126	66054