

TECHNICAL DATASHEET

ISOFIS IS10 anchor for insulation panels

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Anchor with glass-fibre-reinforced nylon nail, for fixing of insulation panels

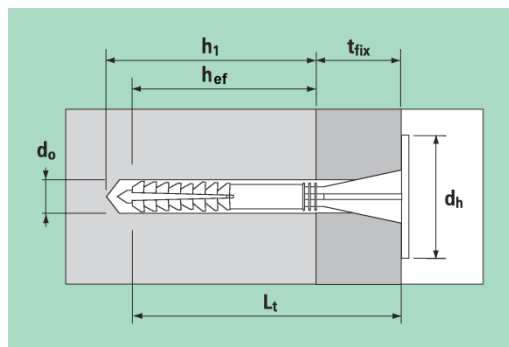
Certificates

Certification according to ETAG 014, use categories A, B, D, E

Base material

certified use

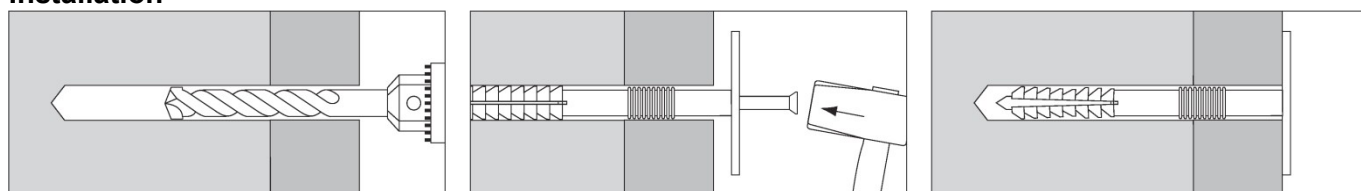
concrete
solid bricks
lightweight aggregate concrete
autoclaved aerated concrete



d_0 = hole diameter
 L_t = anchor length
 t_{fix} = fixable thickness
 h_1 = minimum hole depth
 h_{nom} = overall embedment depth
 h_{ef} = effective anchorage depth
 d_h = head (disc) diameter

art.	descr.	d_0 mm	L_t mm	t_{fix} mm	h_1 mm	h_{nom} mm	h_{ef} mm
HI1070	IS10/70	10	70	20	60	50	50
HI1090	IS10/90	10	90	40	60	50	50
HI10110	IS10/110	10	110	60	60	50	50
HI10140	IS10/140	10	140	90	60	50	50
HI10160	IS10/160	10	160	110	60	50	50
HI10180	IS10/180	10	180	130	60	50	50
HI10200	IS10/200	10	200	150	60	50	50
HI10220	IS10/220	10	220	170	60	50	50
HI10260	IS10/260	10	260	210	60	50	50

Installation



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Materials

part	material
anchor	polypropylene (PP)
nail	glass-fibre-reinforced polyamide (PA6 GF30)

Setting parameters

minimum spacing	s_{min} mm	100
minimum edge distance	c_{min} mm	100
minimum thickness of base material	h_{min} mm	100

Strength data

Tension resistance for a single, isolated and far from the edges anchor

Characteristic resistance

base material	min. density ρ kg/dm ³	min. compr. strength f_b N/mm ²	standard	N_{Rk} kN
concrete C12/15			EN 206-1	0,60
concrete C20/25 ÷ C50/60			EN 206-1	0,75
solid clay brick	1,74	23,9	EN 771-1	0,60
lightweight concrete	1,2	12,5	EN 771-3	0,50
autoclaved aerated concrete	0,6	5,0	EN 771-4	0,30

Design resistance

base material	min. density ρ kg/dm ³	min. compr. strength f_b N/mm ²	standard	N_{Rd} kN
concrete C12/15			EN 206-1	0,30
concrete C20/25 ÷ C50/60			EN 206-1	0,38
solid clay brick	1,74	23,9	EN 771-1	0,30
lightweight concrete	1,2	12,5	EN 771-3	0,25
autoclaved aerated concrete	0,6	5,0	EN 771-4	0,15

Recommended load

base material	min. density ρ kg/dm ³	min. compr. strength f_b N/mm ²	standard	N_{rec} kN
concrete C12/15			EN 206-1	0,21
concrete C20/25 ÷ C50/60			EN 206-1	0,27
solid clay brick	1,74	23,9	EN 771-1	0,21
lightweight concrete	1,2	12,5	EN 771-3	0,18
autoclaved aerated concrete	0,6	5,0	EN 771-4	0,11

 1 kN $\approx$ 100 kg

 Characteristic resistances N_{Rk} derive from values certified in ETA. Design resistances N_{Rd} include partial safety factor on resistances 2. Recommended loads N_{rec} include the further safety factor 1.4.

Design of fixing must be conducted in accordance with ETAG 014 (issued by EOTA) taking into account: loads that must be transferred, type and resistance both of base material and of insulation layer.

Head resistance

diameter of anchor plate	d mm	60
load resistance of anchor plate	$N_{u,m}$ kN	1,64
plate stiffness	$N_{o,m}$ kN/mm	0,40

Thermal insulation

point thermal transmittance	χ W/K	0
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**G&B Fissaggi S.r.l. Italia**

C.so Savona 22, 1029 Villastellone (TO), Italia
tel. +39 011 9619433 - fax +39 011 9619382
www.gebfissaggi.com - info@gebfissaggi.com

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