

TECHNICAL DATASHEET
ISOFIS IS8 hammer-in 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, C, D, E

Base material
certified use

A: normal weight concrete, class from C12/15 to C50/60 according to EN 206-1:2000

B: solid masonry

	according to	min. density ρ [kg/dm ³]	min. compr. strength f_b [N/mm ²]	vertical perforation [%]	drill method
B1. solid clay brick MZ	EN 771-1	2.0	20	-	hammer
B2. solid calcium silicate brick KS	EN 771-2	2.0	20	-	hammer

C: hollow or perforated masonry

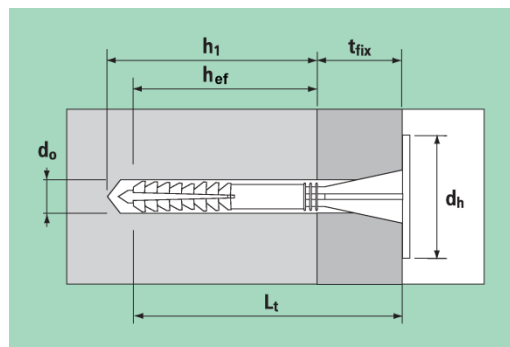
	according to	min. density ρ [kg/dm ³]	min. compr. strength f_b [N/mm ²]	vertical perforation [%]	drill method
C1. hollow calcium silicate brick KSL	EN 771-2	1.6	12	15 ÷ 50	hammer
C2. hollow clay brick HLZ	EN 771-1	1.2	12	15 ÷ 50	rotary
C3. hollow clay brick <i>Porotherm 25</i>	EN 771-1	0.8	10	> 15	rotary

D: lightweight aggregate concrete

	according to	min. density ρ [kg/dm ³]	min. compr. strength f_b [N/mm ²]	vertical perforation [%]	drill method
D1. lightweight concrete block LAC	EN 1520 EN 771-3	0.88	5	-	rotary

E: autoclaved aerated concrete

	according to	min. density ρ [kg/dm ³]	min. compr. strength f_b [N/mm ²]	vertical perforation [%]	drill method
E1. autoclaved concrete block AAC2	EN 771-4	0.35	2	-	rotary
E2. autoclaved concrete block AAC7	EN 771-4	0.65	3.5	-	rotary



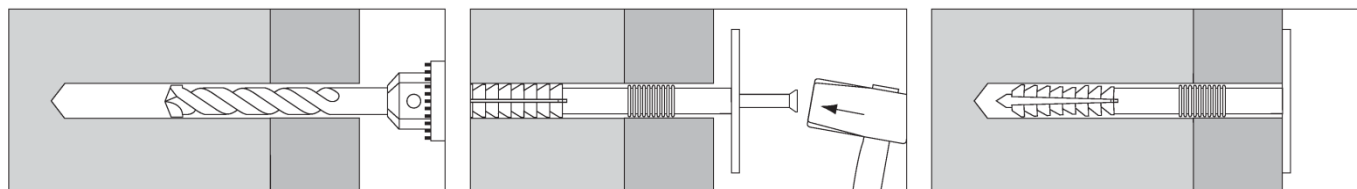
d_0 = hole diameter
 L_t = anchor length
 t_{fix} = fixable thickness
 h_1 = minimum hole depth
 h_{nom} = overall embedment depth
 h_{ef} = effective anchorage depth
 d_h = head (disc) diameter

$$h_{ef} = h_{nom}$$

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art.	descr.	d ₀ mm	L _t mm	use category A, B, C, D			use category E		
				h ₁ mm	h _{nom} mm	t _{fix} mm	h ₁ mm	h _{nom} mm	t _{fix} mm
HI8095	IS895	8	95	35	25	70	75	65	30
HI8115	IS8115		115			90			50
HI8135	IS8135		135			110			70
HI8155	IS8155		155			130			90
HI8175	IS8175		175			150			110
HI8195	IS8195		195			170			130

Installation

Materials

part	material
anchor	polyethylene (PE)
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	N _{Rk} kN
concrete C12/15	0.5
concrete C20/25 ÷ C50/60	0.75
B1. solid clay brick MZ	0.75
B2. solid calcium silicate brick KS	0.75
C1. hollow calcium silicate brick KSL	0.75
C2. hollow clay brick HLZ	0.6
C3. hollow clay brick <i>Porotherm 25</i>	0.4
D1. lightweight concrete block LAC	0.6
E1. autoclaved concrete block AAC2	0.75
E2. autoclaved concrete block AAC7	0.9

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Design resistance

base material	N _{Rd} kN
concrete C12/15	0.25
concrete C20/25 ÷ C50/60	0.38
B1. solid clay brick MZ	0.38
B2. solid calcium silicate brick KS	0.38
C1. hollow calcium silicate brick KSL	0.38
C2. hollow clay brick HLZ	0.3
C3. hollow clay brick <i>Porotherm 25</i>	0.2
D1. lightweight concrete block LAC	0.3
E1. autoclaved concrete block AAC2	0.38
E2. autoclaved concrete block AAC7	0.45

Recommended load

base material	N _{rec} kN
concrete C12/15	0.18
concrete C20/25 ÷ C50/60	0.27
B1. solid clay brick MZ	0.27
B2. solid calcium silicate brick KS	0.27
C1. hollow calcium silicate brick KSL	0.27
C2. hollow clay brick HLZ	0.21
C3. hollow clay brick <i>Porotherm 25</i>	0.14
D1. lightweight concrete block LAC	0.21
E1. autoclaved concrete block AAC2	0.27
E2. autoclaved concrete block AAC7	0.32

1 kN ≈ 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. For other base materials of the use categories A, B, C, D or E the characteristic resistance of the anchor may be determined by job site tests according to ETAG 014 (February 2011), Annex D.

Head resistance

diameter of anchor plate	d mm	60
load resistance of anchor plate	N _{u,m} kN	1.09
plate stiffness	N _{o,m} kN/mm	0.5

Thermal insulation

surface mount	insulation thickness	h _D mm	60 ÷ 160
	point thermal transmittance	χ W/K	0
immersed mount	insulation thickness	h _D mm	80 ÷ 160
	point thermal transmittance	χ W/K	0