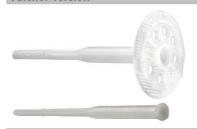
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IZ 8 Insulation fastener

Anchor version



Benefits

- Insulation fastener especially for plastered surfaces
- 30mm setting depth
- Perfect flush setting

ΙZ

Base material







Concrete (non-cracked)

Solid brick

Hollow brick

Other information



Fastening of insulation

Basic loading data for short term acting loads e.g. wind (for a single anchor)

All data in this section applies to:

- Correct setting (see setting instruction)
- No edge distance and spacing influence
- Redundant fastenings in the base materials as specified in the tables
- Minimum base material thickness or greater
- Transmission of wind suction loads only
- Anchor and its plate is not exposed to UV-radiation for more than 6 weeks

Recommended loads

Base material			IZ 8
Concrete ≥ C16/20	N _{Rec}	[kN]	0,2
Solid clay brick Mz 12/2,0	N _{Rec}	[kN]	0,2
Solid sand-lime brick KS 12/1,8	N_{Rec}	[kN]	0,2
Vertically perforated clay brick HIz 12/1,0	N _{Rec}	[kN]	0,13 ^{a)}
Vertically perforated sand-lime brick KSL 12/1,4	N _{Rec}	[kN]	0,17

a) Rotary drilling only - no hammer action

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Recommended pull-through loads and minimum number of fastenersal

Base material	Thickness [mm]	Plate-Ø [mm]	Pull-through load [kN]	Minimum number of fasteners [pcs/m²]
Expanded polystyrene EPS		≥ 60	0,15	5
Mineral wool, type HD	1	≥ 60	0,15	5
Mineral wool, type WV	≥40	≥ 90	0,15 ^{b)}	4
Mineral wool, type lamella	1 1	≥ 140	0,167 ^{c)}	4

a) Recommended values in case that the insulation material to be fixed is not covered by a European Technical Assessment (ETA) or any national approval document. If the ETICS to be fixed is covered by an ETA or any national approval document, the given pull-through resistance in the ETA or national approval document is applicable for the indicated anchors only. Contact HILTI to find out which HILTI insulation fasteners can be used!

Basic provisions for fixing insulation on the bottom side of ceilings

All data in this section applies to

- Correct setting (see setting instruction)
- No edge distance and spacing influence
- Redundant fastening in non-cracked concrete
- Minimum base material thickness or greater
- Transmission of quasi-static permanent loads only
- Anchor and its plate is not exposed to UV-radiation for more than 6 weeks

Note: Each panel shall be supported by 4 anchors at least e.g. by T-joint fixing.

Recommended number of anchors for fixing panels to ceilings w/o consideration of wind loada):

Number of anchors per m ²	
4	
5	
_	

a) A safety factor for dead load γ_F=1,35, a safety factor γ_{MEPS}=1,50, a safety factor γ_{M,Mneralwool}=2,00 for material is considered.

Service temperature range

	Base material temperature	Maximum long term base material temperature	Maximum short term base material temperature
Temperature range	0 °C to +40 °C	+24 °C	+40 °C

Maximum short term base material temperature

Short-term elevated base material temperatures are those that occur over brief intervals, e.g. because of diurnal cycling.

Maximum long term base material temperature

Long-term elevated base material temperatures are roughly constant over significant periods of time.

Materials

Material quality

Part	Material	
Anchor sleeve and plate	Polyethylene	
Expansion pin	Polyamide, fiber reinforced 50%	

b) HILTI slip-on plate HDT 90 must be used

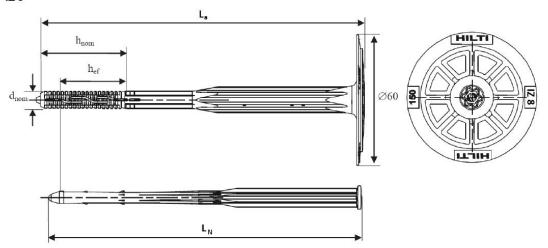
c) HILTI slip-on plate HDT 140 must be used

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IZ 8



Anchor dimensions

			IZ 8
Diameter of sleeve	d _{nom}	[mm]	8
Minimum length of anchor body	L _{a,min}	[mm]	70
Maximum length of anchor body	L _{a,max}	[mm]	210
Minimum length of pin	L _{N,min}	[mm]	65
Maximum length of pin	L _{N,max}	[mm]	205

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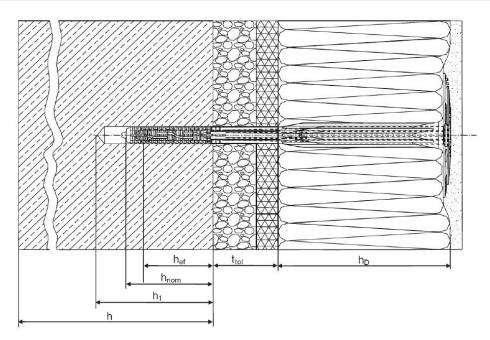




Anchor designations

	IZ 8
	Producer: HILTI
Top of plate	Anchor type: IZ 8
	Anchor length [mm]: e.g. 150 mm

Setting information



Setting details:

Setting details.			
			IZ 8
Nominal diameter of drill bit	do	[mm]	8
Cutting diameter of drill bit	d _{cut} ≤	[mm]	8,45
Depth of drill hole	h₁≥	[mm]	50
Effective anchorage depth	h _{ef}	[mm]	30
Overall embedment depth	h _{nom}	[mm]	40
Thickness of insulation	h _D	[mm]	20 to 170
Maximum thickness of tolerance layer	t _{tol,max}	[mm]	La - h _{nom} - h _D a)
Installation temperature		[°C]	0 to +40
UV exposure			≤ 6 weeks

L_a ... Anchor length, h_{nom} ... Overall embedment depth, h_D ... Thickness of insulation

Example:

IZ 8 x 150-P: L_a = 150mm; h_{nom} = 40mm; h_D = 100mm

t_{tol,max} = 150mm - 40mm - 100mm = 10mm

Note: If t_{tol} is greater than 30mm a stepped drill bit must be used. Please contact HILTI for detailed information!

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Installation equipment

Anchor size	IZ 8	
Rotary hammer	Corded: HILTI TE 2 – TE 7 Battery: HILTI TE2-A22, TE4-A22, TE6-A36	
Installation	Hammer 500g to 1500g	

Minimum edge distance, minimum spacing and minimum base material thickness

willing cage alsunce, milling sp			
			IZ 8
Minimum base material thickness	h _{min}	[mm]	100
Minimum spacing	Smin	[mm]	100
Minimum edge distance	Cmin	[mm]	100
S _{min}	Cmin	ф	th min

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Setting instruction*

*For detailed information on installation see instruction for use given with the package of the product.

