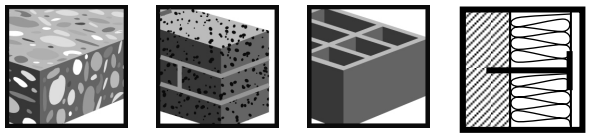
IZ Insulation fastener

	Anchor version	Benefits
	IZ	- Insulation fastener esp. for plastered surfaces - 30mm setting depth - perfect flush setting



Basic loading data (for a single anchor)

All data in this section applies to
- Correct setting (See setting instruction)
- No edge distance and spacing influence
- Base material as specified in the table
- Minimum base material thickness

Recommended loads

		IZ
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
Hollow clay brick Hlz 12 – 1,0	N_{rec} [kN]	0,13[a)]
Hollow sand-lime brick KSL 12 – 1,4	N_{rec} [kN]	0,17

a) Drilling without hammering

Recommended pull-through loads and number of IZ in insulation

		IZ	
		Pull-through loads [kN]	Min. number of fasteners
Expanded polystyrene (EPS	thickness ≥ 40 mm	0,15	5
Mineral wool, type HD	thickness ≥ 40 mm	0,15	5
Mineral wool, type WV	thickness ≥ 40 mm	0,15	4
Mineral wool, type lamella, with slip-on-plate HDT 140	thickness ≥ 40 mm	0,167	4

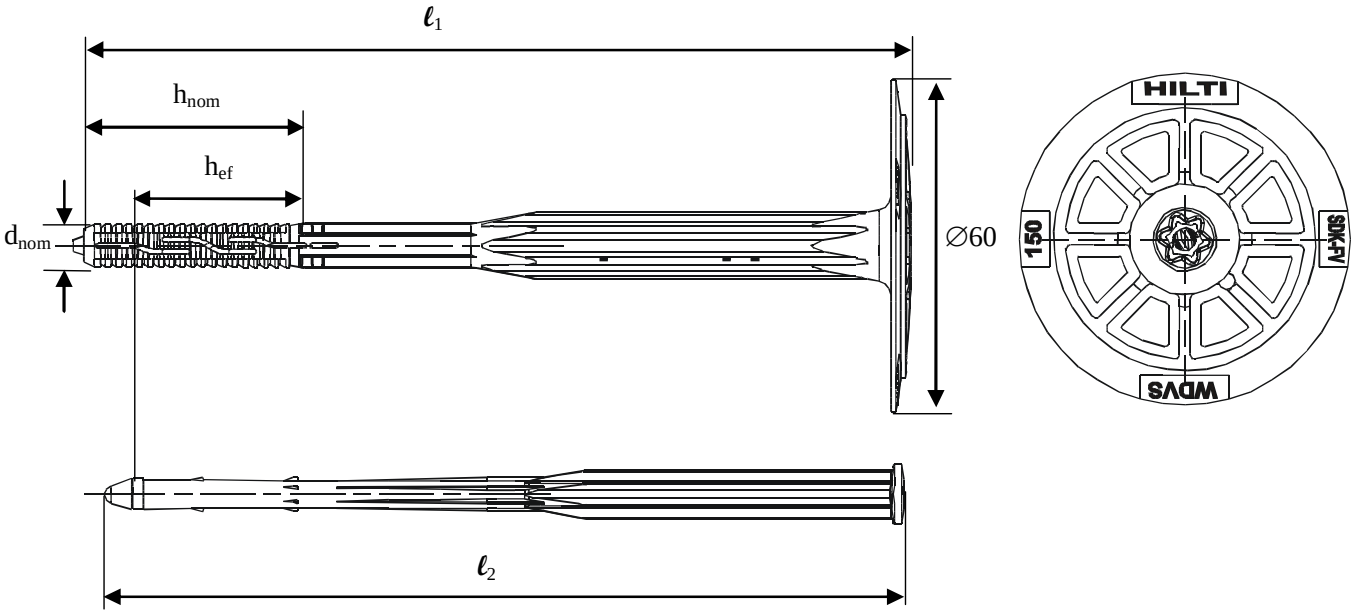
Materials

Material quality

Part	Material
Anchor sleeve	Polypropylene
Expansion pin	Polyamide, fibre reinforced ≥ 50%,

Anchor dimensions

Anchor size			IZ
Minimum thickness of insulation	$h_{D,min}$	[mm]	0
Maximum thickness of insulation	$h_{D,max}$	[mm]	180
Diameter of the sleeve	d_{nom}	[mm]	8
Minimum length of the sleeve	$\ell_{1,min}$	[mm]	70
Maximum length of the sleeve	$\ell_{1,max}$	[mm]	210
Minimum length of the screw	$\ell_{2,min}$	[mm]	65
Maximum length of the screw	$\ell_{2,max}$	[mm]	205

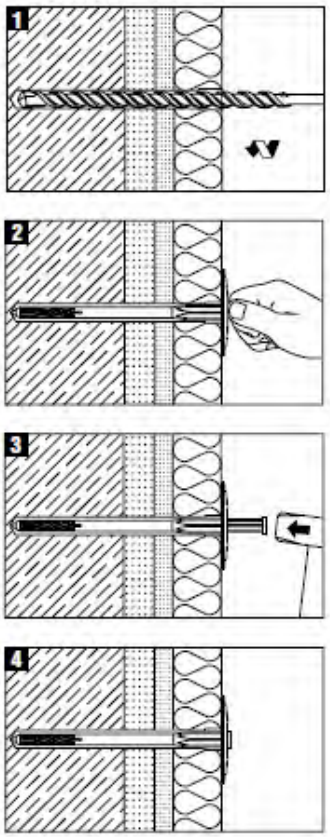


Setting

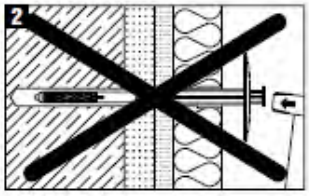
installation equipment

Anchor size	IDP
Rotary hammer	TE2 – TE16
Other tools	Hammer, stepped-drill TE-C 8/12-370 is necessary when t_{tol} > 30mm

Setting instruction



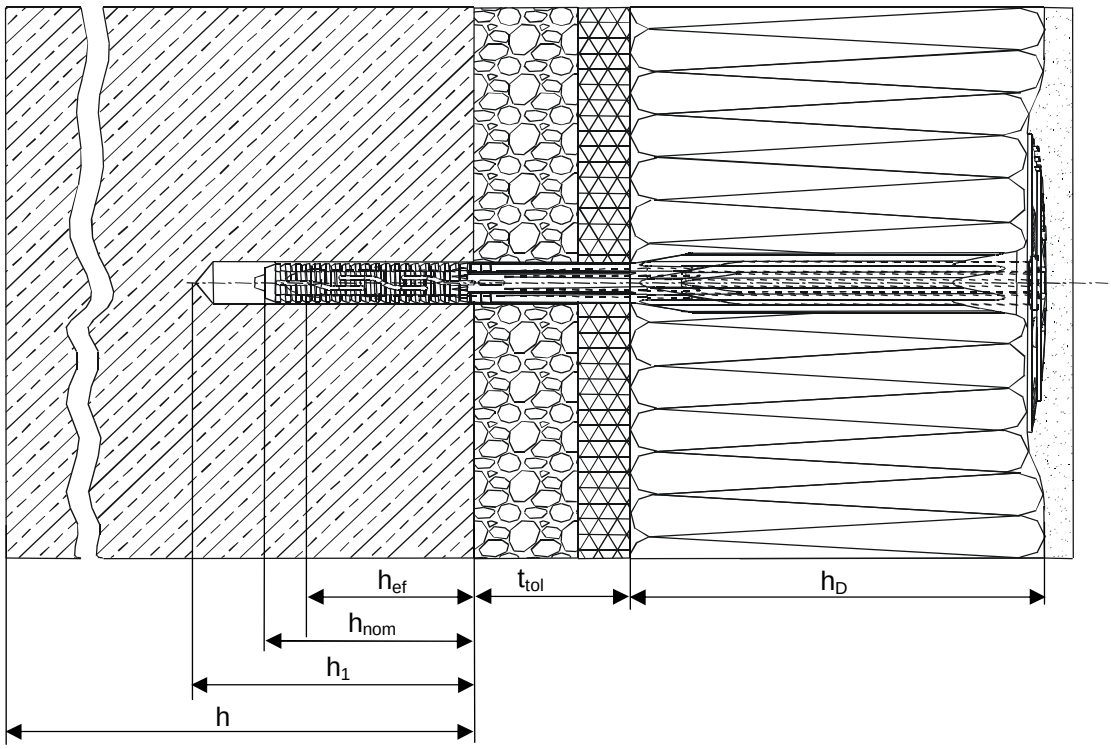
Drill hole with drill bit.



Tap in fastener body only.

Hammer in expansion pin.

Setting details:



Setting details IZ

Anchor version			
Nominal diameter of drill bit	d_o	[mm]	8
Cutting diameter of drill bit	$d_{cut} \leq$	[mm]	8,45
Depth of drill hole	$h_1 \geq$	[mm]	50
Effective anchorage depth	h_{ef}	[mm]	30
Overall embedment depth	h_{nom}	[mm]	40
Installation temperature		[℃]	0 to +40

Setting parameters

Anchor size			
Minimum base material thickness	h_{min}	[mm]	100
Spacing	s_{min}	[mm]	100
Edge distance	c_{min}	[mm]	100