


## IDP Insulation fastener

Anchor version	Benefits
 <p>IDP</p>	<ul style="list-style-type: none"> <li>- for insulating up to 15 cm</li> <li>- simple setting</li> </ul>



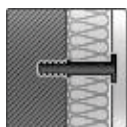
Concrete



Solid brick



Hollow brick



Insulation

### 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
- Loads shall be reduced and number of fasteners shall be increased if the temperature sustains above 40°C

### Recommended loads <sup>a)</sup>

		IDP
Concrete $\geq$ C16/20	$N_{rec}$ [kN]	0,14
Solid clay brick Mz 20 – 1,8 – NF	$N_{rec}$ [kN]	0,14
Solid sand-lime brick KS 12 – 1,6 – 2DF	$N_{rec}$ [kN]	0,14
Hollow clay brick Hlz 12 – 0,8 – 6DF	$N_{rec}$ [kN]	0,04 <sup>b)</sup>
Hollow sand-lime brick KSL 12 – 1,4 – 3DF	$N_{rec}$ [kN]	0,04

a) With overall global safety factor  $\gamma = 5$  to the characteristic loads and a partial safety factor of  $\gamma = 1,4$  to the design values.

b) Drilling without hammering

### Recommended number of IDP not regarding wind suction

			Number of fasteners per m <sup>2</sup>
Expanded polystyrene (EPS) Polyurethane (PU)	density ≤ 40 kg/m <sup>3</sup>	thickness ≤ 150 mm	4
Mineral wool	density ≤ 150 kg/m <sup>3</sup>	thickness ≤ 100 mm	4
		thickness ≤ 150 mm	6

The data is only valid if no further material is applied on the insulation, e.g. plaster. Otherwise number of fasteners have to be increased.

### Materials

#### Material quality

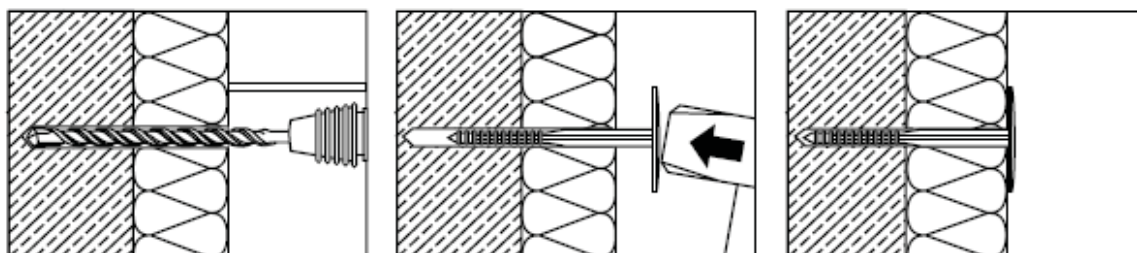
Part	Material
Plastic sleeve	Polypropylene

### Setting

#### installation equipment

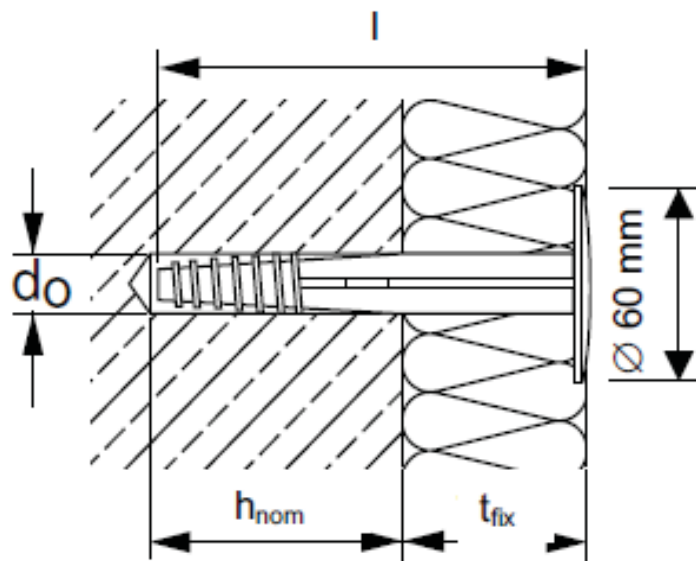
Anchor size	IDP
Rotary hammer	TE2 ... TE16
Other tools	Hammer

#### Setting instruction



Drill hole with drill bit.

Tap in fastener with a hammer.

**Setting details: depth of drill hole  $h_1$  and effective anchorage depth  $h_{nom}$** 

**Setting details IDP**

Anchor version IDP		0/2	2/4	4/6	6/8	8/10	10/12	13/15
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]	$l - t_{fix} + 10\text{ mm} \geq 40\text{ mm}$						
Effective anchorage depth	$h_{nom}$ [mm]	25						
Anchor length	$l$ [mm]	50	70	90	110	130	150	180
Max fixture thickness	$t_{fix}$ [mm]	20	40	60	80	100	120	150
Installation temperature	[°C]	0 to +40						