

## Insulation fastener

### PRODUCT

It is a Thermal Anchor with high penetration strength for all types of thermal insulation boards, suitable for brick and concrete walls.

The anchor is made of PVC sleeve. It can be applied on the wall such as clay brick, hollow blocs, normal concrete, concrete blocks, light-concrete or aerated concrete, etc....

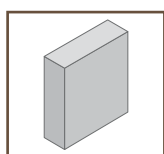
### PRODUCT ADVANTAGES

- Suitable for all the above substrate
- High pull-off strength for a higher security of the system
- Low thermal conduction value to avoid thermal bridge

### REQUIREMENTS

The basic loading data for a single anchor

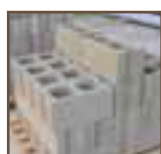
- Correct installation (See installation instruction)
- No edge distance and spacing influence
- Substrate as specified in the table below
- Loads shall be reduced and number of fasteners shall be increased if the temperature sustains above 40°C please consult the technical department of Sodamco Weber



Concrete



Solid Blocs



Hollow Blocs

### INSTRUCTIONS FOR USE

#### SUBSTRATE PREPARATION

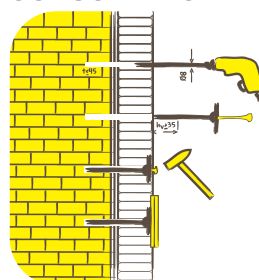
The substrate should be sound, dry, flat, clean and durable

#### PRODUCT APPLICATION

- Start drilling after sufficient hardening of the glue (min 24h later)
- Clean the drilled hole
- Make sure not to damage the thermal insulation layer or substrate during fixing of the anchor
- Make sure that the depth of drilling is greater than 40mm and the anchoring depth inside the substrate is min. 30mm
- The sleeve on top of anchor should not protrude out of the surface of the thermal insulation layer

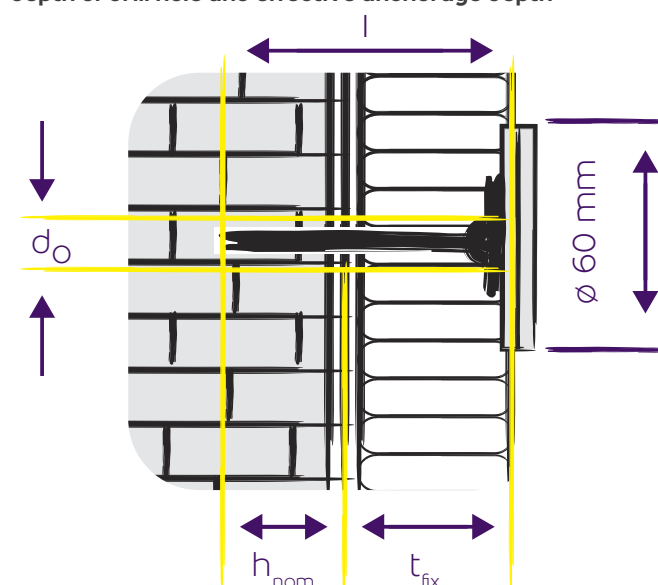


### CONSUMPTION



- Drill hole with drill bit by using a rotary hammer
- Tap the anchor with a hammer

depth of drill hole and effective anchorage depth



## Anchors Details

Anchor version			0/2	2/4	4/6	6/8	8/10	10/12	13/15
Insulation Fastener									
Nominal diameter of drill bit	d <sub>o</sub>	[mm]				8			
Cutting diameter of drill bit	d <sub>cut</sub>	≤ [mm]				8.45			
Depth of drill hole	h <sub>i</sub>	≥ [mm]				l – t <sub>fix</sub> + 10 mm ≥ 40mm			
Effective anchorage depth	h <sub>nom</sub>	[mm]				25			
Anchor length	l	[mm]	50	70	90	110	130	150	180
Max fixture thickness	t <sub>fix</sub>	[mm]	20	40	60	80	100	120	150
Installation temperature		[°C]	0 to + 40						

## TOOLS

Rotary drill, Hammer

## RECOMMENDED LOADS<sup>(a)</sup>

		INSULATION FASTENER
Concrete ≤ C16/20	N <sub>rec</sub> [kN]	0.14
Solid clay brick Mz 20 – 1,8 – NF	N <sub>rec</sub> [kN]	0.14
Solid sand-lime brick KS 12 – 1,6 – 2DF	N <sub>rec</sub> [kN]	0.14
Hollow clay brick HLz 12 – 0,8 – 6DF	N <sub>rec</sub> [kN]	0.04 <sup>(b)</sup>
Hollow sand-lime brick KSL 12 – 1,4 – 3DF	N <sub>rec</sub> [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 Insulation Fastener disregarding wind suction

			Number of anchor per board
Expanded polystyrene (EPS)	density ≤ 40 kg/m <sup>3</sup>	thickness ≤ 150 mm	5
Polyurethane (PU)			
Mineral wool	density ≤ 150 kg/m <sup>3</sup>	thickness ≤ 100 mm	5
		thickness ≤ 150 mm	8

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