

ISOVER PROFI FASSADE ANCHOR

Long expansion zone facade fixing with metal pin

ADVANTAGES

- For fixing mineral wool and polystyrene
- Large expansion area
- The dowel with metal nail is provided with a plastic cover
- It is part of the thermal system created especially for mineral wool - ISOVER PROFI FASSADE THERM



Characteristics

- Easy installation with best performance in lightweight base materials.
- Approved for use in base material categories B, C, D, and E.
- Steel nail allows fast and trouble-free installation with correct expansion of the plug.
- Reduction of thermal bridge formation (value 0.3W/K) through the integration of an impact-resistant plastic overmoulding on the nail head.
- Plate stiffness (value 0.5 kN/mm) ensures smooth elevation surface and stable insulation system.
- Can be used with additional insulation holding plate, available in 90, 110 and 140mm flange sizes.

Applications

- External Thermal Insulation Composite Systems (ETICS)
- Mineral wool (MW) boards
- Polystyrene (EPS) boards

Base materials

Approved for use in:

- Solid Brick (Use category B)
- Hollow Brick (Use category C)
- Vertically-perforated clay block (Use category C)
- Lightweight Concrete Block (Use category C)
- Reinforced components of lightweight aggregate concrete (Use category D)
- Aerated Concrete Block (Use category D)

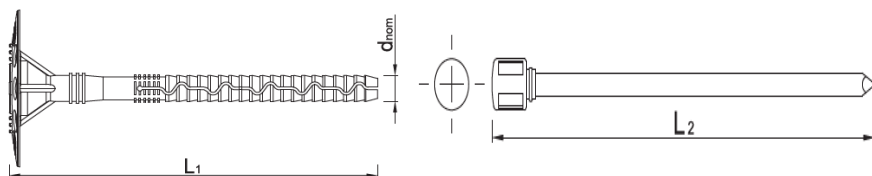
Installation guide

1. Drill a hole of required diameter and depth.
2. Drilling depth of min 80mm in approved materials.
3. Lightly tap the plastic sleeve through the insulation material into hole with a hammer, until fixing depth is reached.
4. Embedment depth of min 60mm in approved materials.
5. Hammer the steel nail into the plastic sleeve until fixing is secure and flush with insulation material.
6. In soft insulation panels the fixing should be combined with insulation retaining plates 90 mm, 110 mm, 140 mm.
7. Temperature range when installed -35C to +80C.



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Product information

Size	Product Code	Fixing			Fixture
		Diameter	Length	Plate diameter	Recommended thickness
		d	L	D	t _{fix B,C,D,E}
		(mm)			
Ø10	ISOVER PROFI FASSADE ANCHOR 140	10	140	60	70
	ISOVER PROFI FASSADE ANCHOR 160	10	160	60	90
	ISOVER PROFI FASSADE ANCHOR 180	10	180	60	110
	ISOVER PROFI FASSADE ANCHOR 200	10	200	60	130
	ISOVER PROFI FASSADE ANCHOR 220	10	220	60	150
	ISOVER PROFI FASSADE ANCHOR 260	10	260	60	190
	ISOVER PROFI FASSADE ANCHOR 300	10	300	60	210

Installation data

Substrate			B, C, D, E
Fixing diameter	d	(mm)	10
Hole diameter in substrate	d _o	(mm)	10
Min. hole depth in substrate	h _o	(mm)	70
Min. installation depth	h _{nom}	(mm)	60
Min. substrate thickness	h _{min}	(mm)	100
Min. spacing	S _{min}	(mm)	100
Min. edge distance	C _{min}	(mm)	100

Basic performance data

Fixing type		ISOVER PROFI FASSADE ANCHOR
Plate resistance	(kN)	1,23
Plate stiffness	(kN/mm)	0,5
Point thermal transmittance	(W/K)	0,003

Saint-Gobain Construction Products România SRL

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ISOVER PROFI FASSADE ANCHOR

Basic performance data

Performance data for single anchor without influence of edge distance and spacing

Substrate		Solid brick	Calcium silicate hollow	Hollowed brick	Perforated ceramic brick	Vertical perforated porositied block	Lightweight concrete	Aerated concrete AAC2	Aerated concrete AAC5
Effective embedment depth h_{ef}	(mm)	60	60	60	60	60	60	60	60
MEAN ULTIMATE LOAD $N_{u,m}$									
ISOVER PROFI FASSADE ANCHOR	(kN)	1,21	1,00	0,89	1,29	0,83	1,15	1,04	1,31
CHARACTERISTIC LOAD N_{rk}									
ISOVER PROFI FASSADE ANCHOR	(kN)	0,75	0,50	0,40	0,60	0,40	0,60	0,30	0,90
DESIGN LOAD N_{rd}									
ISOVER PROFI FASSADE ANCHOR	(kN)	0,38	0,25	0,20	0,30	0,20	0,30	0,15	0,45
RECOMMENDED LOAD N_{rec}									
ISOVER PROFI FASSADE ANCHOR	(kN)	0,27	0,18	0,14	0,21	0,14	0,21	0,11	0,32

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