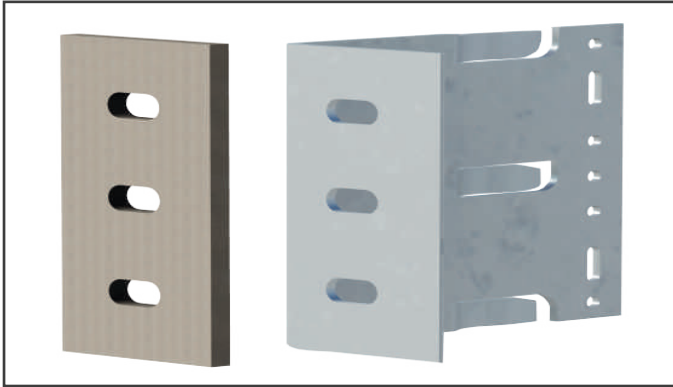
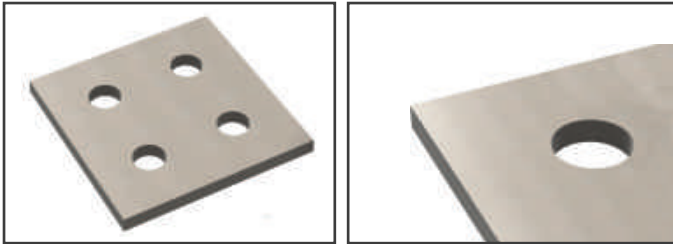


ECOPAD

Structural Thermal Breaks



Helping Hand Bracket Thermal Break



Thermal Break Plate

STRUCTURAL APPLICATIONS

Ecopad Structural Thermal Break is manufactured to use between flanged vertical and horizontal connections. It reduces the thermal bridging between internal and external structural building elements.

Ecopad is suitable to use ;




- Steel to Steel
- Steel to Masonry / Concrete
- Steel to Timber
- Concrete to Concrete
- Between structural frames
- Facade system connections to substrate
- In isolation of sub-structure and basement elements
- In connection of external and internal primary building elements
- Through connections to existing substructures
- With roof plant enclosures
- External access systems
- Balconies
- Canopies
- Roof parapets

Thermal bridging through concrete and steel connections can have a significant impact on buildings` energy performance.

Ecopad A2 Fire Rated Thermal Break provides low thermal conductivity and high compressive strength. Made of reinforced fire resistant thermoset resin, it is an A2 fire rated product which maintains its structural integrity in the event of fire.

Ecopad meets multiple requirements of designers by providing all the necessary properties in one thermal break product. Under "Document B Building Regulations" , this material is compliant for use on buildings over 18 metres.

Ecopad has been independently tested and meets following industry standards:

-  A2 fire rated non-combustible
-  Very high structural performance and compressive strength (EN ISO 604)
-  Can be supplied as cut pads to fit in any shape within the parameters of the material. The thickness of the material is 5mm.

Typical Connection Details :

Figure 1.1 - Masonry to cladding connection

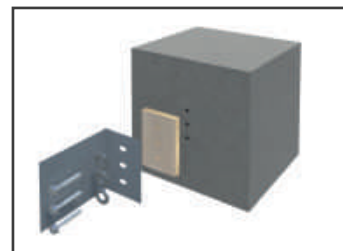


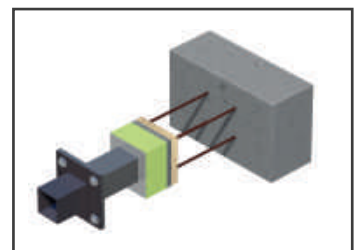
Figure 1.2 - Steel to steel connection internal to external connection



Figure 1.3 - Column base connection



Figure 1.4 - Steel to concrete connection



MATERIAL PROPERTIES

Properties		ECOPAD
Compression Strength f_{ck} (MPa)	(EN ISO 604)	700
Elastic Modulus (MPa)	(EN ISO 604)	5819
Thermal Conductivity (W/mK)	(DIN 52 612)	0.2082
Fire Rating	(EN13501-1)	A2
Density (kg/m ³)	(ISO 1183)	2085
Colour		Brass
Available Thicknesses (mm)		5
Thicknesses Tolerance (mm)		± 0.5

BENEFITS

- ✓ A2 fire rated
- ✓ Low heat conductivity
- ✓ Low water absorbtion
- ✓ Good hydrocarbon stability
- ✓ Good chemical stability
- ✓ Excellent mechanical durability

HOW DO WE WORK?

The following information is required for a quotation :

- Plate dimensions
- Number and sizes of the holes
- Quantity
- Reference postcode

AFTER ORDER CONFIRMATION

- The manufacturing process starts within a week from the order being placed.
- Cladmate to provide detailed drawings with detailed dimensions with project reference are required prior to fabrication.
- Manufacturing is undertaken in accordance with CE ISO 9001 and CE ISO 14001 accreditation.



Disclaimer

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