STRUKTRA® TBK Structural

Thermal Breaks

STRUKTRA® TBK is our premium grade material with very high compressive strength characteristics combined with a very low thermal conductivity.

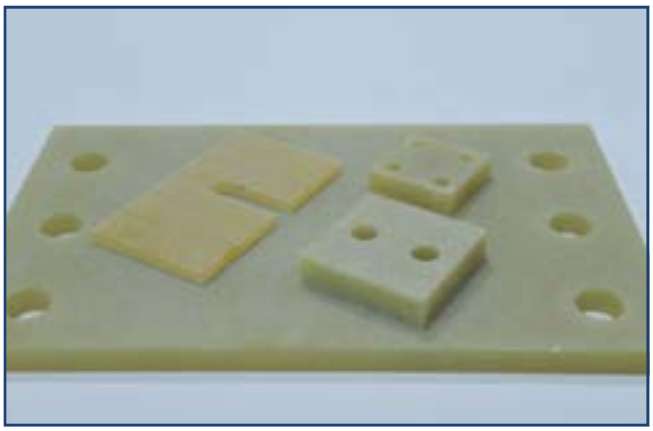
Farrat only use Structural Thermal Break materials specifically developed for use within the building envelope.

STRUKTRA® TBK is fully certified to ensure that designers and clients have confidence in the product when used in structural connections. STRUKTRA® TBK can be supplied as cut to size pads or strips, with a bespoke number of holes precision waterjet cut, according to the customer's requirements or specification.

STRUKTRA® TBK

A high-strength, low thermal conductivity.

Structural Thermal Break material.



Structural Applications

Farrat Structural Thermal Breaks are high performance thermal insolators used between horizontal and vertical connections of internal and external elements to prevent thermal or cold bridging.

STRUKTRA® TBK can be used in a wide variety of applications where there is a structural requirement for thermal insolation:

- Steel to Steel
- Steel to Concrete/Masonary
- Steel to Timber
- Concrete to Concrete

STRUKTRA® TBK can be used in new build and refurbishment projects within the following building element examples:

- Facade system connections to primary frames
- Brise soleil and signage
- Roof plant enclosures - columns
- Roof parapets
- Connection of external to internal primary building elements
- Balconies
- Staircases
- Isolation of sub-structure and basement elements
- Man-safe systems
- Connections to existing structures

For more information on using STRUKTRA® TBK (including standard details), please contact Vibisol.

Certifications & Accreditations:

ETA-22/0333

STRUKTRA® TBK Site Applications:

VIBISOL

PROPERTIES	FARRAT TBK		NOTES
Compressive strength	Characteristic fck	312 MPa	BS EN 1990 Equation (D.1)
	Design, fcd	312 MPa	BS EN 1993-1-8 (YM2 = 1.25) (UK NA)
Elastic modulus		5178 MPa	
Thermal conductivity / Resistance		0,187 W/mK	
Density		1465 kg/m3	
Water Absorption		0.14%	
Long term creep		20%	% Increase of initial strain (Serviceability Limit State)
Thickness	**Tolerance**	**Max. Sheet size**	
5 mm	0 / +0,2mm	2400mm x 1200mm	
10 mm	0 / +0,2mm		
15 mm	0 / +0,2mm		
20 mm	0 / +0,3mm		
25 mm	0 / +0,3mm		

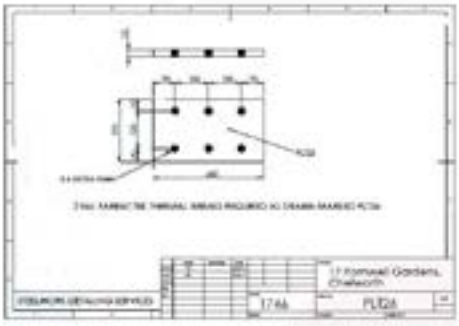
Quotations

The following information is required for a quotation:

- Plate Dimensions
- Plate Thickness
- Number and size of Holes
- Quantity

Orders & Manufacturing

Farrat Structural Thermal Breaks are bespoke products so early procurement is recommended. We aim to start manufacturing within 3 working days from an order being placed. Prior to fabrication a fully dimensioned drawing is normally required for each type of plate with a unique project reference. Prior to delivery all Farrat Structural Thermal Breaks are labelled with the fabricator's drawing reference. Fabrication is undertaken in accordance with our ISO 9001 and ISO14001 accreditations.



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