



TekTherm™ AK300HT

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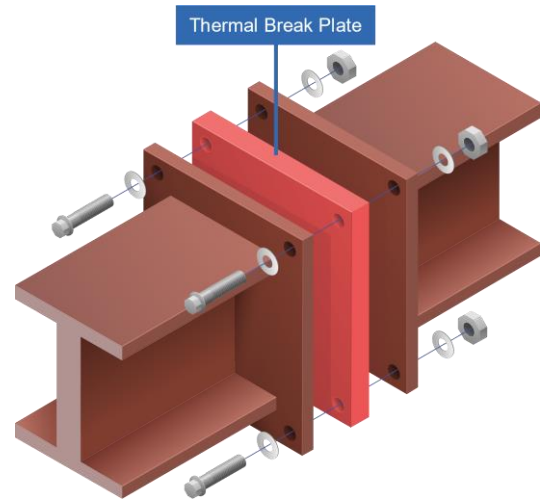
Material Specification (Typical Properties)

TekTherm™ AK300HT has the highest level of compressive strength and thermal insulation of all available products and can meet demanding application specifications.

TekTherm™ AK300HT has been independently tested and certified so specifiers and customers know they are buying a quality product. We can supply this in cut pads, strips or in any other shape within the parameters of the material (2,440mm x 1,220mm).

Applications

- Steel to Steel
- Steel to Concrete
- Concrete to Concrete
- Steel to Timber
- Balconies
- Canopies
- Brise-soleil
- Roof Plant enclosures
- Façade Systems
- Balustrading
- Parapets
- Man-safe systems
- Staircases
- Building Maintenance Units



Availability

Thickness (mm)	Width (mm)	Length (mm)
6	1220	2400
10	1220	2400
12	1220	2400
15	1220	2400
20	1220	2400
25	1220	2400



Thermal Breaks

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Supply Chain Responsibilities

- Thermal Modelling – Architect
- Structural Evaluation – Structural Engineer
- Cost Evaluation – QS
- Installation – Contractor

Quotations

The below information is required for quotations

- Material spec - TekTherm™ AK300HT or AK200
- Pad dimensions
- Thickness
- Number and size of holes
- Quantity
- Delivery Address

	Unit	Value	Test Standard
Mechanical Properties			
Flexural strength	MPa	170	ISO 178
Modulus of elasticity	MPa	10000	ISO 178
Compressive strength at 200°C	MPa	90	ISO 604
Design Compressive strength at 23°C	MPa	198	ISO 826
Friction Coefficient	/	0.15	ASTM D1894
Physical Properties			
Density	g/cm3	1.5 (+/-0.1)	ISO 1183
Water Absorption (24h 23°C)	%	0.49	ISO 12087
Electrical Properties			
Electrical strength	kV/mm	21	IEC 60243-1
Thermal Properties			
Operating temperature*	°C	-180 +200	
Coefficient of linear expansion //	1.0E-6 / K	20	DIN 53752
Thermal conductivity*	W/m.K	0.1332	DIN 52612
Flame retardancy		V0	UL94

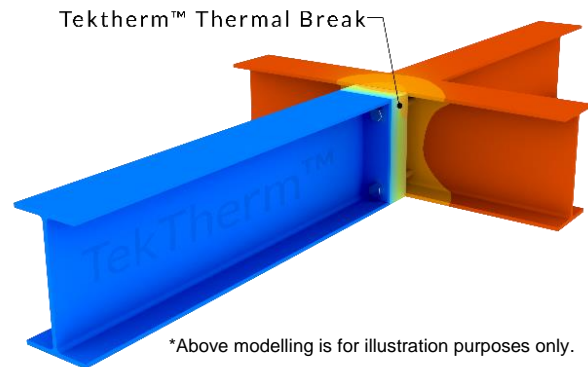
*Manufacturers' figures

RoHS Directive

Hazardous products listed in the EU-directive 2011/65/EU (ROHS-directive), §4 section 1, are not used as ingredients in this material.

Benefits

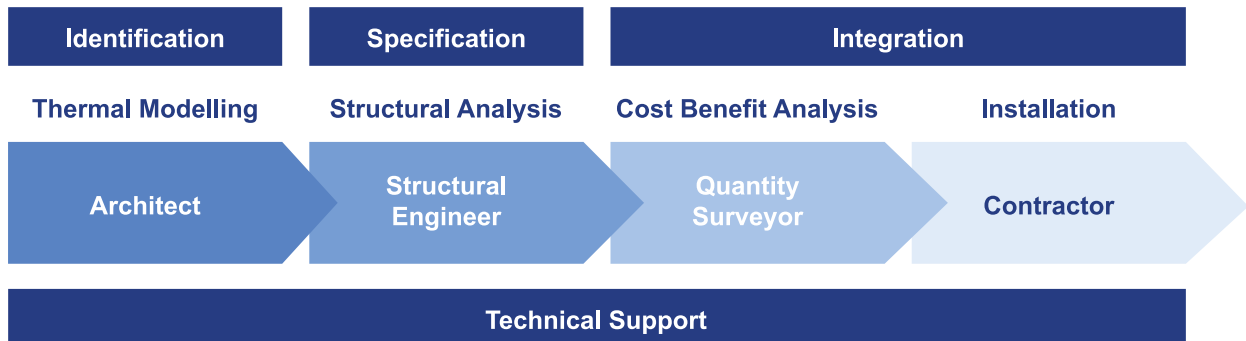
- Asbestos free
- Low heat conductivity
- Excellent tolerances with respect to parallelism
- Long life expectancy > 50 years (dependent on operating conditions)
- Low water absorption
- Good hydrocarbon stability
- Good chemical stability
- Excellent mechanical durability
- Very good electrical properties
- UL 94-V0



We aim to deliver all orders within 5 working days however we are well versed with industry requirements and therefore will always turn these around in the shortest time possible. Please call us if you have an urgent requirement and we will arrange your order to be expedited.

On and Off-Site Support

We are here to discuss your application and assist you in selecting the right thermal break materials to meet your project specification.



Disclaimer. These figures are typical values for the material and do not represent a product specification. Properties will vary depending on source of raw material, method of processing, physical form of product, direction of measurement etc.

Updated 16/04/2020