



# TekTherm™ AK200

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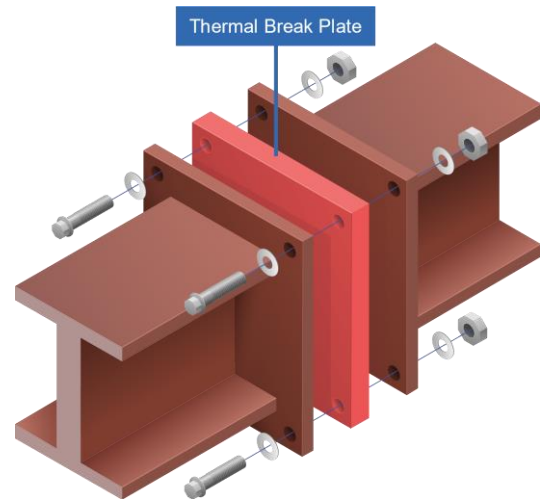
## Material Specification (Typical Properties)

TekTherm™ AK200 is a medium duty structural thermal breaks which offer good thermal insulation properties and compressive strength.

TekTherm™ AK200 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.

## 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              | 1000       | 2000        |
| 10             | 1220       | 2000        |
| 12             | 1220       | 2000        |
| 16             | 1220       | 2000        |
| 20             | 1220       | 2000        |
| 25             | 1220       | 2000        |



**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

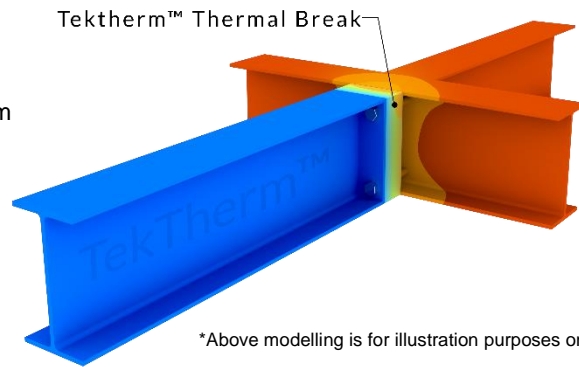
- Material spec - TekTherm™ AK300HT or AK200
- Pad dimensions
- Thickness
- Number and size of holes
- Quantity
- Delivery Address

|   | Unit   | Value      | Test Standard   |
|---|--------|------------|-----------------|
| <b>Mechanical Properties</b>            |        |            |                 |
| Flexural strength                       | MPa    | 115        | ISO 178:2001    |
| Compressive strength                    | MPa    | 109        | ISO 826         |
| E-modulus                               | MPa    | 4100       | ISO 527-1       |
| Elongation at break                     | %      | >20        | ISO 527-1       |
| Compressive modulus                     | MPa    | 3000       | ISO 604:2002    |
| Charpy Impact Strength                  | KJ/m2  | -          | ISO 180:2000    |
| <b>Physical Properties</b>              |        |            |                 |
| Density                                 | g/cm3  | 1.15       | ISO 1183        |
| Water Absorption (24h 23oC)             | %      | 0.95 (max) | ISO 1606        |
| Moisture absorption (saturation)        | %      | 7          | ISO 62:1999     |
| <b>Electrical Properties</b>            |        |            |                 |
| Dielectric strength                     | kV/mm  | 25         | IEC 60243-1     |
| <b>Thermal Properties</b>               |        |            |                 |
| Operating temperature                   | °C     | -40 +160   |                 |
| Coefficient of linear thermal expansion | °C-1   | 8x10-5     | ISO 11359-2     |
| Thermal conductivity*                   | W/m. K | 0.184      | ISO 12667       |
| Flame retardance                        | °C     | HB         | IEC 60695-11-10 |

\*Manufacturers' figures

## Benefits

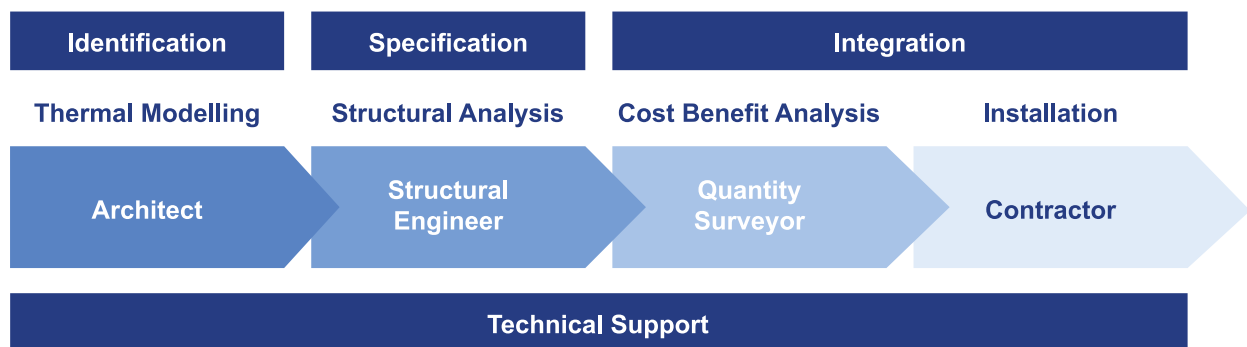
- Asbestos free
- Low heat conductivity
- Excellent tolerances with respect to parallelism
- Long life expectancy >25 years
- Low water absorption
- Good hydrocarbon stability
- Good chemical stability
- Excellent mechanical durability
- Very good electrical properties



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