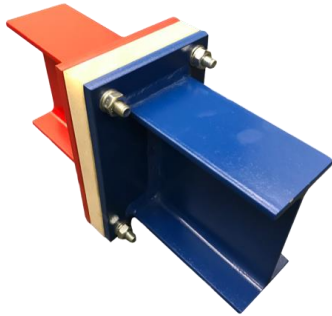


PLAKA – THERMO BREAK TYPE 300s
Thermal break material

REF 07.08.02 - Version V01 – 29/06/2022

**Description**

THERMO BREAK Type 300s is a high-performance thermal insulator used between both horizontal and vertical connections of internal and external elements to prevent thermal/cold bridging.

This thermal break material is characterized by:

- a very good dimensional stability
- a high insulation effect
- a very high compressive strength
- a high resistance to chemicals such as acids and organic solvents.

Application fields

The four primary connections where thermo break plates are used are as follows:

- Steel to steel
- Steel to concrete/masonry
- Steel to timber
- Concrete to concrete

Thermo break plates are used in new build and refurbishment projects in the following building elements:

- Balconies and balustrading
- Brise-soleil
- Entrance structures
- External staircases
- Façade systems
- Internal/External primary structure junctions
- Man-Safe systems
- Roof plant enclosures
- Sub-structure and basements

Properties

The materials combine properties of high loading resistance with excellent thermal insulation. The composite materials are weatherproof. Even in an aggressive environment this material will have an excellent durability. Generally, thermo break plates are used in locations that do not require fire protection.

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Properties	
Max. service temperature	200°C 250 °C
<ul style="list-style-type: none"> • Long-term • Short-term 	
Compressive strength	300 N/mm ² 100 N/mm ²
<ul style="list-style-type: none"> • at ambient temperature • at 200°C 	EN ISO 604
Coefficient of thermal conductivity λ	0.13 W/m.K 0.17 W/m.K
<ul style="list-style-type: none"> • at ambient temperature • at 200°C 	DIN 52 612
Linear coefficient of thermal expansion (length and width direction)	28.10 ⁻⁶ [1/K]
	DIN 53 752
Flexural strength	200 N/mm ² 60 N/mm ²
<ul style="list-style-type: none"> • at ambient temperature • at 200°C 	EN 63
Flexural modulus of elasticity	7500 N/mm ² 4000 N/mm ²
<ul style="list-style-type: none"> • at ambient temperature • at 200 °C 	EN 63
Water absorption / 24 h	0.1 %
	DIN 53 495
Density	1.4 g/cm ³
Dimension stability under dynamic sustained loading (after 500,000 cycles, at 200 °C and 30 N/mm ² , 15 mm thickness at the beginning of the test)	99.5 %
Plane parallelism (on 1m length)	0.1 mm

Specifications are subject to alteration due to technical development. The standard values given in this data sheet are not part of any contract.

Dimensions

Material dimensions	
Thickness	5, 10, 15, 20 & 25 mm*
Max. length	240 cm
Max. width	120 cm

*Multiple plates can be provided for applications where thicknesses greater than 25mm are required.