

BATIBOARD T

Description

Batiboard T is a non-combustible board made from low-bioperistence high temperature fibres and an innovative filler and binder system that combine to provide exceptional high temperature resistance and thermal protection up to 1400°C including hydrocarbon fires.

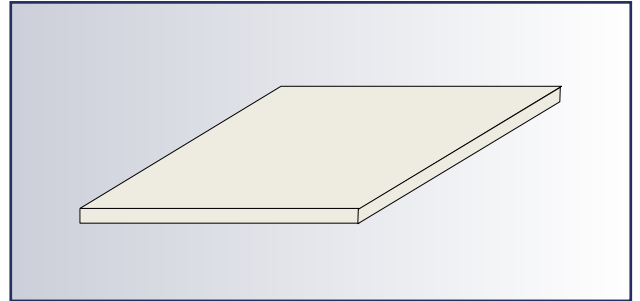
Batiboard T has been especially developed in low thickness for the most demanding fire protection applications in tunnels and underground construction.

Main fire performances

- 2 hours RWS fire protection of concrete in 20 mm
- 3 hours RWS fire protection of concrete in 25 mm
- CETU N3 (2 hours HCM +2 hours ISO 834) in 25 mm
- 6 hours fire protection of loadbearing concrete (EN 13381-3 and EN 1363-1) in 30 mm

Advantages

- Lightweight (500 kg/m³ density)
- Dimensions up to 3.00 m
- Quick to install
- No pre-drilling
- Durability class Y
- Hydrophobic
- No water absorption when exposed to dripping water
- Quartz free recipe
- Thermal insulation
- Integrity
- Water repellency
- Easy to handle, cut, glue and press
- Approved quality
- CE marking
- ETA available
- Certifire available



Uses

Batiboard T can be fixed directly onto concrete slabs. It doesn't require any pre-drilling.

It also can be fixed to a steel frame and/or through backing strips in Batiboard T. In that case Board edge joints will be positioned centrally over the strips.

Boards are fitted adjacent to each other by tightly butting the edges together in both directions.

Anchor density depends on conditions applied during fire test and on board sizes. Generally, anchor density is 5 to 7 per m².

Supports for tunnel services will be fixed through the board onto the concrete structure. Big anchors will require a cover piece of Batiboard T surrounding the penetration to insure fire protection.

Expansion joints are treated by adding a cover board to be screwed to the Batiboard T. The screws are positioned only on one side of the cover board so that a sliding movement can occur.

Small repairs are easy to handle using pieces of Batiboard T fixed in place with the adhesive Batifix G-HV.

Environmental & health safety

Low bio-persistent fibres included in the Batiboard T recipe are exonerated and are not classified as carcinogenic by IARC or under any national regulations on a global basis. They have no requirements for warning labels under GHS (Globally Harmonized System for the classification and labelling of chemicals). In Europe, they meet the requirements specified under NOTA Q of European Directive 67/548 and are therefore exempt from the classification and labelling regulation.

Main characteristics

Characteristics	Value	Unit	Test method
Nominal density	500	kg/m ³	EN 1602
Thickness range (monolithic)	9 - 30	mm	EN 823
Reaction to fire (Euroclass)	A1	-	EN13501-1
Classification temperature	1400	°C	internal
Durability Class	Y	-	EAD 350142-00-1106
Modulus of rupture in bending	2400	kPa	EN 13169 § 4.3.7
Nominal compression at 10% deformation	700	kPa	EN 826
Tensile strength perpendicular to faces	130	kPa	EN 1607
Length/ width tolerance	±1 up to 1200 and ± 2 above	mm	EN 822
Thickness tolerance	±1 up to 20 mm and ± 2 above	mm	EN 823

Thermal conductivity

Temperature (°C)	Thermal conductivity (W/m.K)	Test method
100	0.06	ASTM C201
200	0.07	
400	0.09	
600	0.11	
800	0.14	
1000	0.18	
1200	0.24	
1400	0.32	

Size availability

Batiboard T is available in standard sizes 2400x1200 mm and 2100x900 mm. Other sizes available on request up to 3000x1250 mm.

Packaging and storage

Batiboard T boards are packed directly on pallets wrapped in recyclable plastic. Pallets have to be stored in dry conditions in their original packaging. Boards can't be stored directly on ground and have to be kept out of rain and damp conditions.

Characteristics of our products are subject to normal manufacturing variations and can be changed without prior notice. Check with your Sitek Insulation office for current information.

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