



tecbor boards

passive fire protection

TECBOR A AND B BOARDS

KEY FEATURES

- ▶ excellent fireproof performance
- ▶ low thickness of protection
- ▶ high thermal insulation
- ▶ easy and quick assembly
- ▶ free of substances hazardous to health
- ▶ wide range of applications
- ▶ antifungal, rodents and insects protection

DESCRIPTION

Tecbor A and B are magnesium based boards, A1 classified as per EN standard, designed to achieve fire protection up to EI 240. Tecbor boards have been developed for a wide range of applications in today's demanding construction industry.



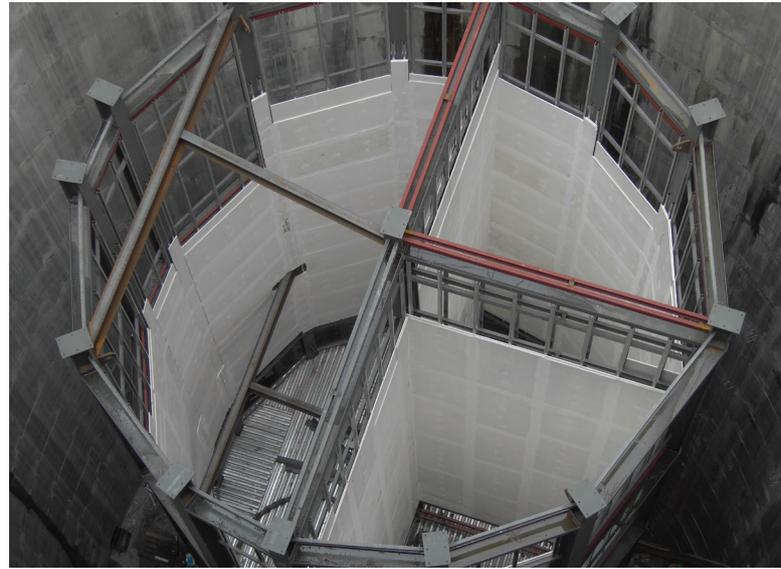
CERTIFICATES

Tecbor A and B test certifications have been conducted in different European laboratories under the EN fire protection standards. Tecbor boards have obtained the CE mark with the certificate of compliance no. 1220-CPD-0901 and the European Technical Approval ETA 09/0057.

Tecbor B offers a wide range of solutions and is certified to cover all kind of tunnel applications.

Tecbor B 20 mm has been certified under the UL heating curve by Cidemco (Spain).

At the Efectis Laboratory in the Netherlands and in accordance with the 2008-Efectis-R0695 Document Specification, the Tecbor B tunnel boards have obtained the certificate for achieving the RWS 1350°C time-temperature curve for 120 and 180 minutes. Also the Hydrocarbon Modified Curve (HMC) for 120 and 180 minutes was achieved.



APPLICATIONS

- ▶ Steel and concrete structures protection
- ▶ Partitions (internal and wall linings)
- ▶ Suspended ceilings
- ▶ Curtain walls
- ▶ Ventilation ducts
- ▶ Tunnels

AVAILABLE DIMENSIONS

- ▶ 1220 x 2300 mm
 - ▶ 1200 x 2300 mm
 - ▶ 1200 x 2400 mm
- (other sizes and tapered edges of boards upon request)

AVAILABLE THICKNESSES



TECHNICAL CHARACTERISTICS AND SPECIFICATIONS			
SPECIFICATIONS	TECBOR A	TECBOR B	NORMATIVE
Composition	Magnesium oxide, silicate & other additives	Magnesium oxide, silicate & other additives	-
Fire performance	Non-combustible Euroclass A1	Non-combustible Euroclass A1	EN 13501-1:2002
Dry density (40°C)	700 kg/m ³ ± 10%	650 kg/m ³ ± 10%	EN 12467
Density (23°C and 50% HR)	730 kg/m ³ ± 10%	680 kg/m ³ ± 10%	EN 12467
Thermal conductivity	0.27 W/mk	0.19 W/mk	EN 12664
Alkalinity pH	8 - 10	8 - 10	EN 13468
Water absorption capacity	1.9 kg/m ²	4.12 kg/m ²	EN 1609
Steam permeability	3.9 x 10 ⁻⁹ (Kg/m ² sPa)	3 x 10 ⁻⁹ (Kg/m ² sPa)	EN ISO 12572
Lengthwise tolerance	± 5 mm	± 5 mm	EN 12467
Widthwise tolerance	± 3 mm	± 3 mm	EN 12467
Thermal expansion (20-100°C)	3.6 (1/°C)* 10E-5	3.1 (1/°C)* 10E-5	EN ISO 10.545-8/97
Thickness margin	± 1 mm	+ 2 mm / -1 mm	EN 12467
Edge straightness	Level I - 0.1%	Level I - 0,1%	EN 12467
Organic matter content	4.55%	3.30%	103 204/93
Resistance to water erosion	R _L < 0.75	R _L < 0.75	EN 12467
Modulus of elasticity (MPa)	3018.7	2149.2	EN 12089; EN 310
Flexural strength MOR (MPa)	7.2	3.58	EN- 12467
Tensile strength perpendicular to fibre (MPa)	1.2	0.68	EN - 1607
Tensile strength paralell to fibre (MPa)	1.59	0.81	EN 1608
Compressive strength (MPa)	7.07	4.64	EN - 826
Dimensional stability	≤ 0.25%	≤ 0.25%	EN 326-1
Microbial proliferation	No	No	EN 13403
Life	25 years Z ₂	25 years Z ₂	ETA 09/0057

Some values quoted relate to internal testing across the size range. Individual test certificates are available upon request. We reserve the right to improve product performance at any time and without prior notice. Stricter board tolerances can be achieved to suit specific project requirements.

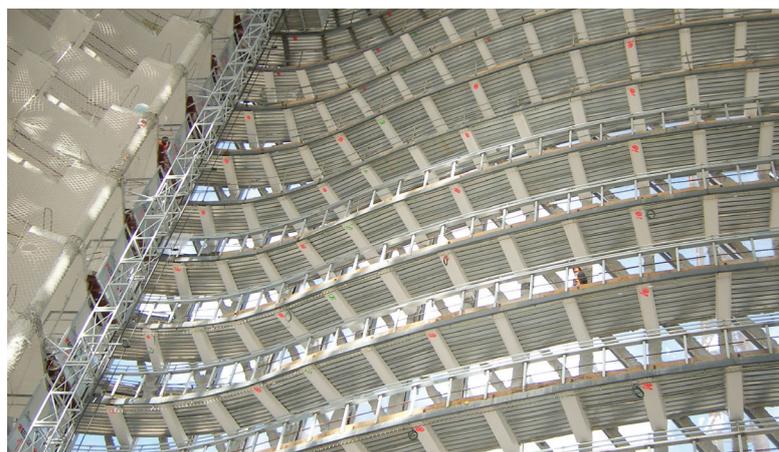
LOGISTICS DETAILS							
	Board's length	Tecbor A			Tecbor B		
		10 mm	12 mm	15 mm	20 mm	30 mm	40 mm
Weight per pallet	2300	40	35	35	30	20	15
	2400	90	75	60	45	?	22
Weight per pallet	2300	16	16	12	12	12	12
	2400	6	6	6	6	6	6

FINISHES

Thanks to the smooth finish in a light grey / white colour of the external side, Tecbor A and B finish can be left as a standalone or can be painted if required. Edges of boards can be squared or tapered.

HEALTH AND SAFETY

Tecbor A and B boards do not contain hazardous substances for health, according to the database of the 041/051 DS European Commission. They do not produce toxic smoke or fumes under fire exposure.



Mercor is the largest producer and supplier of comprehensive passive fire protection systems in Poland. The Mercor capital group comprises Mercor SA (Poland, parent company), Mercor Ukraine and Mercor UA LLC (Ukraine), Mercor Fire Protection Systems S.R.L. (Romania), Mercor-Proof LLC (Russia), Mercor Czech Republic s.r.o. (Czech Republic), Mercor Slovakia s.r.o. (Slovakia) and Tecresa Protección Pasiva (Spain).

MERCOR OFFERS THE ASSORTMENT OF PRODUCTS FROM FOUR SEGMENTS OF PASSIVE FIRE PROTECTIONS MARKET:

- ▶ fireproofing systems for building structures and tunnels
- ▶ fire ventilation systems
- ▶ smoke and heat exhaust systems and rooflight systems

MERCOR IS ABLE TO OFFER ITS CLIENTS INTEGRATED SOLUTIONS ENSURING THOROUGH FIRE PROTECTION OF BUILDINGS AND INDUSTRIAL PLANTS. MERCOR TOGETHER WITH DESIGNERS AND CONTRACTORS CAN PROVIDE COMPREHENSIVE SERVICES BY OFFERING:

- ▶ assistance in the designing of fire protection systems,
- ▶ ready-made products and devices,
- ▶ delivery and assembly,
- ▶ maintenance.

Most of products are customised: the client can define desired parameters of the purchased product, in compliance with safety standards and requirements based on regulations.



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