



DESCRIPTION

Tecbor® boards offer a wide range of constructive solutions in passive fire protection for construction and industry.

They are available in different thickness: 5, 10, 12, 15, 20, 23, 24, 25, 30 y 40 mm.

PROPERTIES

Tecbor® boards are CE marked. All test have been conducted by accredited laboratories under EN regulations or similar according to the specifications of the **DITE 018-4** approved by the EOTA.

Tecbor® boards do not contain hazardous substances in accordance with the Commission Data Base DS041/051.

mercortecresa®, as well as offering a wide range of constructive solutions, has a Technical Department that is continuously developing new solutions.

LIST OF SOLUTIONS

- Protection of steel structure.
- Ventilation ducts.
- Partitions.
- Curtain Walls.
- False ceilings.
- Tunnels..

HEALTH AND SAFETY

The following considerations must be taken into account when handling **Tecbor® boards**:

- Wearing protective gloves to protect the hands is recommended.
- Respect the regular work measures.

Consult the safety datasheet for further information.

CHARACTERISTICS AND TECHNICAL SPECIFICATIONS

SPECIFICATIONS	TECBOR® A	TECBOR® B	TECBOR®	NORMATIVA
Composition	Magnesium oxide, silicates and other additives	Magnesium oxide, silicates and other additives	Magnesium oxide, silicates and other additives	-
Fire classification	Non combustible Euroclass A1	Non combustible Euroclass A1	Non combustible Euroclass A1	UNE - EN 13501-1:2002
Dry density (40°C)	700 kg/m ³ ± 10%	650 kg/m ³ ± 10%	900 kg/m ³ ± 10%	UNE - EN 12467
Density (23°C y 50% HR)	730	680	925 kg/m ³	UNE - EN 12467
Thermal conductivity	0,27 W/mk	0,19 W/mk	0,31 W/mk	UNE - EN 12664
Alkalinity pH	8-10	8-10	8-10	UNE - EN 13468
Water absorption capacity	1,9 kg/m ²	4,12 kg/m ²	4,5 kg/m ²	EN 1609
Permeability to water vapour	3,9 x 10 ⁻⁹ (Kg/m ² sPa)	3 x 10 ⁻⁹ (Kg/m ² sPa)	3 x 10 ⁻⁹ (Kg/m ² sPa)	UNE - EN ISO 12572
Length tolerance	± 5 mm	± 5 mm	± 5 mm	UNE - EN 12467
Width tolerance	± 3 mm	± 3 mm	± 3 mm	UNE - EN 12467
Thermal expansion (20-100°C)	3,6 (1/°C)*10E-5	3,1 (1/°C)*10E-5	3	UNE - EN ISO 10.545-8/97
Thickness tolerance	± 1 mm	+2 mm -1 mm	+2 mm -1 mm	UNE - EN 12467
Straightness of edges	Level I - 0,1%	Level I - 0,1%	Level I - 0,1%	UNE - EN 12467
Organic matter content	4,55%	3,30%	3,3%	UNE 103 204/93
Resistance caused by water	R _L < 0,75	R _L < 0,75	R _L < 0,75	UNE - EN 12467
Modulus of elasticity (MPa)	3018,7	2149,2	475 MPa	UNE - EN 12089 UNE - EN 310
Resistance to bending MOR (MPa)	7,2	3,58	4,74 MPa	EN- 12467
Perpendicular tensile strength to fiber (MPa)	1,2	0,68	1,47 MPa	EN - 1607
Compressive strength (MPa)	7,07	4,64	9,61 MPa	EN - 826
Dimensional stability	≤ 0,25%	≤ 0,25%	≤ 0,25%	UNE - EN 326-1
Parallel tensile strength to fiber (MPa)	1,59	0,81	0,99 MPa	EN 1608
Microbial growth	No	No	No	EN 13403
Lifetime	25 years Z ₂ (indoor use)	25 years Z ₂ (indoor use)	25 years Z ₂ (indoor use)	Dite 09/0057

FINISHES

Tecbor® boards are presented in two formats with different finish:

- **Squared edge:** this finish is suitable for constructive solutions where 90° boards meet, as in the case of ducts, tunnels, fire belts barriers, etc.
- **Tapered edge:** is a unique board with its two long edges tapered, what offers a great finish for solutions such as suspended ceilings, partition walls, wall cladding, etc.

Tapered edge provides certain advantages:

- **Aesthetic finish:** Meeting joints are concealed with the tapered edges, giving a suitable aesthetic appearance for suspended ceilings, partition walls, wall cladding, etc.
- **Greater resistance to fissures:** Risk of fissures is reduced by the placement of cover strip.
- **Reduction of workability:** Faster speed in the finish process.

*Check availability.

STORAGE AND HANDLING

Store the boards on flat surfaces keeping them covered and protected from rain. When boards are transported by forklift, make sure the forks are open as wide as possible.

THICKNESS mm	DIMENSIONS	No. BOARDS / PALLET
TECBOR® A		
5	1220 x 2300	84
10	1220 x 2300	42
12	1220 x 2300	35
15	1220 x 2300	40
TECBOR® B		
20	1220 x 2300	30
TECBOR®		
23	1220 x 2300	26
24	1220 x 2300	25
25	1220 x 2300	24
30	1220 x 2300	20
TECBOR® B		
40	1220 x 2300	15

We guarantee that the quality of our materials conforms to the indicated technical specifications, while it remains the consumer's own responsibility to determine how suitable the product is for the intended use. You must perform tests and ensure the effectiveness of the product for its application. **mercortecresa®** does not guarantee, explicitly or implicitly, the compatibility of a product for any particular application. We cannot be held responsible for any damage or accident resulting from the use of our products