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MCR Tecresa
S.L.

Parque Leganés Tecnológico
LEGATEC
C/ Margarita Salas, 26
28919 Leganés, Madrid.

459-F1
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1220-CPD-0901

ETA 18/1017

EAD 350142-00-1106

Tecbor®

Exposure: Type Z₂

DESCRIPTION

Tecbor® Boards provide a wide array of construction solutions for passive fire protection in buildings and industrial applications.

Available in a range of thicknesses: 5, 10, 12, 15, 20, 23, 24, 25, 27,5, 30 and 40 mm.

PROPERTIES

Tecbor® Boards has the CE marking. All testing was done in laboratories certified according to EN or similar standards, following the specifications of **ETA 018-4** guidelines approved by EOTA.

Tecbor® Boards contain no hazardous substances according to the European Commission's DS 041/051 database.

In addition to offering wide range of construction solutions, **mcr tecresa®** has a technical department that is constantly developing new solutions.

Tecbor® Boards have been designed and developed for exposure to the elements, and are rated as Type X (outdoor use). They are specially developed for solutions requiring this type of rating (tunnel protection, ventilated façades, curtain walls, etc.).

LIST OF SOLUTIONS

- Steel structure protection.
- Ventilation ducts.
- Partition walls.
- Curtain walls.
- False ceilings.
- Tunnels.

HEALTH AND SAFETY

The following aspects must be considered when handling **Tecbor® Boards**:

- Wearing safety gloves to protect the hands is recommended.
- Obey the usual health and safety measures.

See the product safety data sheet for further information.

CHARACTERISTICS AND TECHNICAL SPECIFICATIONS

SPECIFICATIONS	TECBOR®	STANDARD
Composition	Magnesium sulphate and other additives	-
Fire classification	Non-combustible Euroclass A1	UNE - EN 13501-1:2002
Dry density (40°C)	900 kg/m³ ±10%	UNE - EN 12467
Density (23°C and 50% RH)	925 kg/m³	UNE - EN 12467
Thermal conductivity	0.31 W/mk	UNE - EN 12664
Alkalinity pH	8-10	UNE - EN 13468
Water absorption capacity	4.5 kg/m²	EN 1609
Vapour permeability (δ)	6 x 10 ⁻¹¹ kg/(m·s·Pa)	UNE - EN ISO 12572
Length tolerance	± 5 mm	UNE - EN 12467
Width tolerance	± 3 mm	UNE - EN 12467
Thermal expansion (20-100 °C)	1.66 x 10 ⁻⁶ / °C in the transverse direction and 6.38 x 10 ⁻⁶ / °C in longitudinal direction	UNE - EN ISO 10545-8/97
Thickness tolerance	+2 mm -1 mm	UNE - EN 12467
Edge straightness	Level I – 0.1%	UNE - EN 12467
Organic matter content	3.3%	UNE 103 204/93
Water resistance load	R _l < 0.75	UNE - EN 12467
Modulus of elasticity (MPa)	475 MPa	UNE - EN 12089 UNE - EN 310
Flexural strength MOR (MPa)	4.74 MPa	EN- 12467
Tensile strength perpendicular to fibre (MPa)	1.47 MPa	EN - 1607
Compressive strength (Mpa)	9.61 MPa	EN - 826
Dimensional stability	≤ 0.25%	UNE - EN 326-1
Tensile strength parallel to fibre (MPa)	0.99 MPa	EN 1608
Microbial proliferation	No	EN 13403
Intended use	Outdoor use (classification X): Solution for tunnel and façade protection Indoor and semi-exposed (classification Z2): Passive protection solutions for general construction	UNE-EN 12467:2013+A2:2018
Useful life	25 years	ETA 18/1017

FINISHES

Tecbor® Boards come in two formats with a number of finishes:

- **Straight Edge:** this finish is perfect for construction solutions where there is a 90°-angle between boards, such as tunnels, ducts, where party walls meet, etc.
- **Tapered Edge:** this is an exclusive board featuring tapered edges on both lengthwise sides, offering a magnificent finish in solutions such as false ceilings, partition walls, linings, etc.

The tapered edge provides a series of advantages:

- **Aesthetic finish:** the tapered edge makes it possible to conceal joints, offering a seamless appearance in false ceilings, partition walls, linings, etc.
- **Enhanced resistance to cracking:** the risk of cracking is reduced through the use of joint cover strips.
- **Reduced work time:** the desired finish is completed more quickly.

*Check availability.

STORAGE AND HANDLING

Store the boards on a flat surface, keeping them covered and protected from the rain. When using a forklift to transport the boards, the forks must be in the widest possible position.

THICKNESS mm	DIMENSIONS	NO. BOARDS/PALLET
5	1220 x 2300	84
10	1220 x 2300	42
12	1220 x 2300	35
15	1220 x 2300	40
20	1220 x 2300	30
23	1220 x 2300	26
24	1220 x 2300	25
25	1220 x 2300	24
27,5	1220 x 2300	22
30	1220 x 2300	20
40	1220 x 2300	15

Signed by:

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. **mcr tecresa®** does not guarantee, explicitly or implicitly, the compatibility of a product for any particular application. We cannot be held responsible for any damage or accidents resulting from the use or misuse of our products.

