

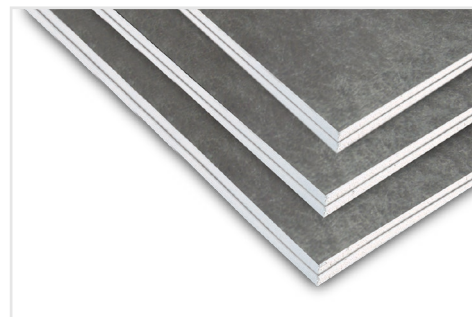
# X-TERIUM

## PLASTER PLATE FOR OUTDOORS



### DESCRIPTION

Non-combustible synthetic gypsum boards specially formulated for resist moisture and growth of fungi and algae, coated with a reinforced fiberglass membrane to resist any weather condition. Systems with X-terium plasterboard for walls, panels and facade elements provide advantages such as easy and quick installation and lightness against other constructive exterior systems, which makes its installation very efficient in terms of work progress, and load reduction in the main structure.



X-terium plates have square edges and it is mounted on metal racks protected with a waterproof membrane. They receive an Existing cement base gasket treatment BunkerMax BaseCoat leaving an ideal surface to receive polystyrene plates in isolated systems with exterior finish (EIFS: Exterior Insulation Finish Systems), or finishes for exterior such as pastes, elastomeric paints or fiber-cement tablets. Systems with X-terium plates can be specified in any type of element, both vertical or horizontal in Exterior.

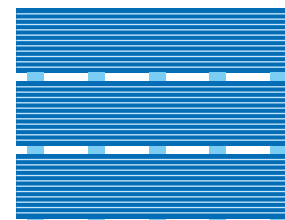
### PRODUCT TECHNICAL DATA

CONCEPT	UNIT	VALUE	REFERENCE NORM
Dimensions	m	1,22 • 2,44	ASTM C1177
Thickness	mm	12,7	ASTM C1177
Weight	kg/m <sup>2</sup>	9,6	
Long side Flexural Strength (B method)	N	705	ASTM C 473, C 1177
Strength Resistance	MPa	4,35	ASTM C1177
Core Hardness	N	150	E 72
Surface Combustibility	Clasificación	No combustible	ASTM E136
Apparent Density	kg/m <sup>3</sup>	782,61	NMX-C-126-ONNCCE-2010
Thermal Conductivity	W/m•K	0,1051	NMX-C-181-ONNCCE-2010
Thermal Resistance	K•m <sup>2</sup> /W	0,1215	NMX-C-181-ONNCCE-2010
Steam Permeability	ng/Pa•s•m	0,211	NMX-C-210-ONNCCE-2013
Moisture Absorption	% peso	2,132	NMX-C-228-ONNCCE-2013
Moisture Absorption	% volumen	1,657	NMX-C-228-ONNCCE-2013
Water absorption	% peso	16,18	NMX-C-228-ONNCCE-2013

### HANDLING AND STORAGE

X-terium plasterboard should be stored in pallets of a maximum of 60 pieces, and may be stacked up to 7 pallets. Each one must have supports every 61 cm. to centers between them to raise the plates for protection.

- It is very important that the supports are perfectly aligned high so as not to deform or hurt the plaster core of the plates.
- The storage location should be closed, fresh, and dry without exposure to the weather, and the plates must be kept horizontal, they should not be placed on the edges so as not to fracture the gypsum core of the banks
- Temperature conditions during storage and use of gypsum boards must not exceed 54 ° C, nor should they be exposed to constant and direct humidity
- Transit or additional loads on the pallets should be avoided (store buckets or boxes with other products, or use them as scaffolding)
- X-terium plates withstand periods of direct exposure, once installed on outdoor racks, up to 12 months without that affect their physical characteristics



Correct pallets stacking

## SECURITY AND HYGIENE

During the handling and installation of drywall it is recommended to use basic personal safety equipment, such as gloves, safety glasses, and safety boots. The use of NIOSH / MSHA mask caps during the installation of this plate is particularly important, because the fiberglass membrane gives off particles, and the ideal is to avoid aspiration during periods prolonged time

- To manually transport the plates it is recommended to do it between two people, adding a safety belt to the equipment, in the waist to avoid physical injuries, in addition to loading the plates horizontally as if they were sheets of glass. In the case of storing the product for a long period of time before installation it is recommended to cover the pallets with a plastic or tarpaulin to avoid exposure to moisture by condensation (if the relative humidity of the environment at the site is 60% or major), dust, or volatile agents. During the installation of the plates it is recommended to keep the site ventilated.

## INSTALLATION

On sidewalks, it is recommended to build a sardine or reinforced concrete platform of at least 15 cm high by the total width of the wall, and all along, in order to avoid mistreatment to the system and possible water leaks caused by waterlogging.

- Before attaching the 22-gauge plate mooring channel to the sardine or bench, place a Tyvek waterproof membrane strip (ref. Sheet Tyvek technique).

- X-terium plasterboard will be mounted on metal racks armed with 20 -gauge, post spacing must not exceed 40.6 cm. or 16 "to centers. Before placing the plasterboard, the frame will be protected on the offset and outer face with Tyvek Stucco Wrap™ waterproof membrane. The plates will be sealed to each post with Plaka Plaster-Metal 20 screws every 20 cm. to centers In case of armed elements with load channels and slat channels (soffits), the slats must be 20 gauge and the distance between them should not be more than 40.6 cm. or 16 " .

- All accessories such as corner pieces, flanges or control joints must be plastic, and be screwed to the frame with screws Plaster-Metal 20, will subsequently be hidden with BunkerMax Base Coat cement when doing the joint treatment.

- Control boards in the system should be considered every 6,10 m. in both directions (in walls and panels), whether indoor or outdoor.

- For EIFS systems, extruded or expanded polystyrene will be installed by adhering the plates to the surface, or with screws with plastic caps. The polystyrene surface must accuse the control joints described above, and will receive its own joint treatment for this system.

- The consultation of the Technical Manual or of the X-terium Manual is highly recommended to determine the type specification. correct frame depending on the use of the property, structure, location, etc. and get more information about installing the X-terium plate.

- For installation on DEFS exterior walls the area should receive a fiberglass mesh throughout the embedded area with the cement BunkerMax BaseCoat.

## NORMAS APLICABLES

### ASTM C 1177 / C1177M-13

Especificación estándar para sustratos de yeso recubiertos con membrana de fibra de vidrio para uso como revestimientos.

### ASTM D3273-94

Método de prueba standard para la resistencia al crecimiento de moho superficial en recubrimientos interiores en una cámara ambiental.

### ASTM D3273-09 (2013)

Método de prueba standard para evaluar el grado de desfiguración de una película de pintura por crecimiento de hongos o algas, o acumulación de tierra o suciedad.

### ASTM C473

Métodos de prueba estándar para evaluar las características físicas de paneles de yeso.

### ASTM C1280

Especificación estándar para la aplicación de paneles de yeso en exterior como revestimiento.

### NOM-018-ENER-2011

Aislantes Térmicos para Edificaciones – Características y Métodos de Prueba

