



TECHNICAL DATASHEET

EXTERIOR GYPSUM BOARD

[www.boardandwall.com](http://www.boardandwall.com)

BOARD & WALL Exterior gypsum board is composed of noncombustible gypsum core with the addition of strong water repellent and special glass fibers which are chosen considering human health and nature, the coated with special fiberglass mat increase its strength against weather conditions at our high technology production line.

### **ADVANTAGES**

- \* With its impact strength enhanced by use of special glass mat and made fireproof, it also allows having a smooth surface and excellent base for decorative applications.
- \*Through its high resistance, it minimizes problems arising from handling, application and use.
- \*As a 'breathable' material, it balances the ambient humidity and helps formation of healthy environments.
- \*As it is water repellent and enhanced low water absorption ratio (less than 3% by weight for 2 hours), it helps to prevent water leakage from the external wall on the buildings.
- \*Besides being easy to prepare, apply and disassemble, it helps saving time and labor, permitting to pass the installation and insulation materials through the application cavities.
- \*Compared to the conventional wall applications, it considerably decreases the building wall loads and reduces the beam, column and slab sizes, thus minimizing the construction costs.
- \*As it is fireproof Class A1 material, it protects against fire. With its performance and durability, It allows to create emergency corridors during fire also It minimizes the damage that the building load bearing components may suffer.

### **APPLICATION AREA**

External wall systems, eaves wall applications, building shaft wall construction, wet areas and coating of building components.

### **SURFACE PREPARATION**

For coating on the existing wall, solid application surface should be obtained at the points where the steel connection elements fixing the board installation profiles to the wall.

For profile frame system application, If any considerable roughness exist at the application area must be removed, If there are any deep and great cavities, those should be filled with B&W Joint Filling Mortar.

### **APPLICATION**

For different external wall systems, you may find the respective application details at the system manuals.

### **WARNINGS AND PRECAUTIONS**

- \*Application should be made properly with the recommended materials. Profile and materials should never be poor quality.
- \*The screws to be used should be corrosive-resistant and the profiles should be galvanized according to the external wall conditions.
- \*If there will be mounting such as sign and air-conditioner on the board, the columns and beams should be used or special supporting components can be used.

### **APPLICATION RESTRICTIONS**

- \*It should be used proper size of insulation material between the profiles.
- \*Any damaged board and auxiliary materials should be renewed and application should not be made by any defective materials.

## STORAGE CONDITIONS

In order that the plasterboards are not damaged, store them on a flat and clean floor also It will not contact directly with the ground and should be stored in areas that offer protection against adverse conditions (condensation, humidity, etc.)

## TECHNICAL CHARACTERISTICS

Length	1200 - 2400 mm	
Width	1200 mm	
Thickness	12.5 mm	15 mm
Average Weight	≤ 11 kg/m <sup>2</sup>	≤ 13,5 kg/m <sup>2</sup>
Shear Strenght	1070N	>1070 N
Type of edge	TE (Tapered edge) – SE (Square Edge)	
Benging diameter	3 m	
Thermal Conductivity Value (λ)	0.22 W/mK	
Fire Class	A1 Noncombustible	
Water Absorption (by weight)	≤ %5	
Linear variation (moisture content)	0,004 mm/mt. %RH	
Linear variation (temperature changes)	0,015 mm/mt. %C	
Mould Resistance	10 (ASTM D 3272-12)	
Water vapour permeability resistance factor	16	
Standard	TS EN 15283-1 A+1	
Type	GM – F H1 R	

## PACKAGING

Thickness	12.5 mm	15 mm
Board/Pallet	50 pcs./Pallet	40 pcs./Pallet