



## Royal Gyp Fire Resistance Plasterboard



### Field of Application

Royal Gyp fire Resistant Plasterboard used in Residential Buildings, Commercial Buildings, Hospitals, Airports, Educational Institutions and other such applications.

### Manufacturing Standards

Royal Gyp Fire Resistance Plasterboards are produced to ASTM C1396 / C1396M Type X & EN 520 Type I, F standards. Tested accordance to ASTM E84 & ASTM 473

Properties (per 12.5mm)	ASTM C1396:2006 Specifications	DIN EN 520:2004 Specifications	Specifications
Type	X	F	
Flexural Strength (N) Longitudinal	≥ 480	≥ 550	≥ 650
Flexural Strength (N) Transverse	≥ 175	≥ 210	≥ 330
Nail Pull Resistance (N)	≥ 352	-	370
Core Hardness (N)	≥ 49	-	≥ 70
Edge Hardness (N)	≥ 49	-	≥ 70
Thickness (mm)	± 0.40	± 0.5	± 0.2
Board Length (mm)	± 6.0	0,-5	0, -2.0 mm
Board Width (mm)	0,-3.0	0,-4	0, -2.0 mm
End Squareness (mm)	± 3.2	≤ 2.5	± 2.0
Weight (kg/m <sup>2</sup> )	-	-	9.0 ± 0.2

### Product Characteristics

Length	Standard length is 2400mm & 3000mm. Special length is 1800mm to 4500mm
Width	1200mm & 1220mm
Thickness	9.5mm, 12.5mm, 15mm & 16mm
Edge	Tapered, Square, Bevelled & Round
Colour	Face: Pink, Back: Grey
Fire rating	Royal system application (Tested ASTM E119)

### Product Description

Royal Gyp fire Plasterboard is lightweight for use in standard internal wall and ceiling applications where fire protection is required. They are produced from high purity natural gypsum core being sheeted in a closely adhering best selected paper liners. Royal Gyp fire Plasterboard has fiber glass which improves strength and Sag Resistance.



### Guaranteed System Performance

Muscat Gypsum systems are tested at intentionally reputed 3rd party laboratories for Fire & Acoustics performance thus offering proven performance to the customer. MGC offers 10 years warranty for all its products and system performance



### On Site Technical Support

For selected locations Muscat can provide onsite technical support to teach the applicators for correct application of dry wall partition to achieve system performance.



### Technical Literature

Muscat Gypsum Systems are supported by several technical literatures (system book, system selector, installation manuals etc.) to help the project identify the right system as well as correct method of application. In addition, a wide range of typical drawings are made available to easily integrate Muscat Gypsum Systems within the overall project masterplan.



### Wide Area of Application

Muscat Gypsum systems cover wide area of application including hotels, educational & commercial facilities, recreational centers among others thus offering something for all needs.



### Customized Systems

In addition to standard applications, Muscat's strong specification engineering team can work with the designers and architects of specific projects to offer systems suiting specific needs of a particular projects.



### Recycling Facility

Muscat Gypsum Company has its own recycling facility for Plasterboard, thus offering projects additional opportunity to gain LEED points.