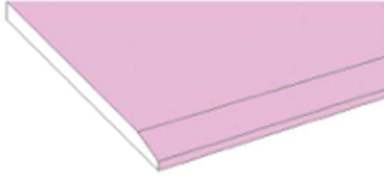




## TECHNICAL DATASHEET

## 12.5mm FR - BOARD



### DESCRIPTION

EL-KHAYYAT FR (Fire Rated) Board for use in areas where improved fire resistance is required. The board is stronger, harder and heavier than Standard plasterboard and has superior fire resistance in Drywall Systems.

The face paper is folded around the long edges to reinforce and protect the core, and the ends are square-cut and finished smooth. Long edges of the panels are tapered.

### BASIC USES

#### Applications

- Use it on steel-framed construction for interior fire rated drywall and fire ceiling applications.

#### Advantages

- Suitable for all interior applications, including walls and ceilings. Also use it as a tile backerboard in dry areas.
- Fire-resistant material up to four hours
- Easily scored and snapped to exact size without sawing.

#### Applicable Standards and References

**ASTM C473** Standard Test Methods for Physical Testing of Gypsum Panel Products

**ASTM C518** Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus

**ASTM C1396** Standard Specification for Gypsum Board

**ASTM C840** Standard Specification for Application and Finishing of Gypsum Board

**ASTM E84** Standard Test Method for Surface Burning

**EN 520** Type F and D standard for performance of gypsum plasterboards

### PHYSICAL PROPERTIES

#### Thickness

12.5mm

#### Sizes

1200mm x 2400mm

1200mm x 3000mm

#### Board weight:

12.5 mm X 2400 mm x1200 mm (29.40 kg)

#### Flexural Strength:

Longitudinal breaking  $\geq 550N$

Transverse breaking load  $\geq 210N$

Humidified Deflection 3mm

Nail Pull Resistance (N) 551

Hardness Core (N) 328

Hardness Edges (N) 336

Hardness Ends (N) 337

#### Mass:

12.5 mm board (10.20 kg/m<sup>2</sup>)

#### Thermal Resistance, R:

12.5 mm = 0.050 m<sup>2</sup>K/W

#### Moisture Resistance:

Water Absorption per Weight (g) 4 %

#### Fire-Resistance Characteristic:

Core Type Type X

Combustibility<sup>2</sup> Non-combustible Core

Surface Burning Characteristics Class A

Flame Spread<sup>3</sup> 15

Smoke Development<sup>3</sup> 0