EL KHAYYAT GYPSUM COMPANY

TECHNICAL DATASHEET

Fiber Cement Board

DESCRIPTION:

EL-KHAYYAT Fiber cement boards are very resistant to stress-related cracking or breaking because of how they are made. The board is made of cement, sand, and cellulose fibers. The cement and sand give the board a strong, fire-resistant base, while the cellulose fibers strengthen the board's structure. Also, these materials are resistant to termite infection and don't break down or fall apart when exposed to rain.

BASIC USES:

Applications:

Apply the filler in a thin, even layer; if the area under repair requires a thick coat, apply several thin layers, allowing each layer to dry before adding the next. Lightly sandpaper over the dry final surface before painting preferably within 9 hours of application.

Clean tools and equipment with water after use.

Advantages:

EL-KHAYYAT Exterior is formulated using acrylic binders and precisely graded fillers. Properties include:

- Tough durable filler
- Weather resistant
- Alkali resistant
- Easy to apply
- Quick drying
- High crack resistance
- Excellent adhesion

Applicable Standards and References:

Thickness & size: IS 14862:200 & BS EN 12467
Strength: ASTM D1037
Fire Resistance: BS 476 Part 20 & 22
Flame & Smoke: ASfME84
Surface: BS 476:Part 7:1997
Combustibility: BS 476:Part 4:1970
Fire Propagation index: BS 476:Part 6:1989
Thermal Conductivity: ASTM C177 and ISO 8302
Acoustic Characteristics: IS:9901 Part 3:1981
Moisture: Ambient

PHYSICAL PROPERTIES

Thickness

9mm

Sizes

1200mm x 2400mm
1200mm x 3000mm

Edge:

Tapered, Squared

Board Size:

9 mm X 2400 mm x1200 mm

Flexural Strength:

Impact Strength J/m2 >2100
Compressive Strength MPa >30
Tensile Strength Mpa 20-Parallel, 18-Perpendicular

Acoustic Characteristics:

Acoustic Insulation (Single Board) dB 32-34

Thermal Characteristics:

Thermal Conductivity W/m-K 0.18

Chemical Characteristics:

Alkalinity pH 8-9
Moisture Content (EMC) %<12
IS 14862:200 & BS EN 12467

Fire-Resistance Characteristic:

Combustibility[2]	Non-combustible Core
Ignitability	'P' Not Easily Ignitable
Surface Spread of Flame	Class 1
Flame Spread[3]	15
Smoke Development[3]	30
Fire Resistance	120m
Fire Propagation index	I = 0.7