



Product Advantage

- Weather resistance
- Immune to Water Damage
- Fire Resistance
- Sound Insulation
- Not Brittle
- Low Shrinkage
- Bendable
- High Workability
- Termite Resistance
- Non-Asbestos

Description

The Board is the non-asbestos fibre-cement flat sheet composing of Portland cement, cellulose fiber and refined sand. With the special manufacturing process called **autoclave**, our board acquires the strength, durability as well as dimensional stability.

The non-combustible board comes with various thicknesses for different applications exterior as well as interior.

Standard References

| Standard | Category | Title |
|-----------------|-----------------|---|
| ASTM | C1185, C1186-99 | Flat Non-Asbestos Fibre-Cement sheets |
| ASTM | E90 - 97 | Sound Transmission Lost of Building Partition |
| ISO | 8336: 1993 | Fibre-Cement Flat sheets |
| AS/NZS | 2908.2: 2000 | Cellulose Cement Product Part2: Flat sheets |
| JIS | A5430 - 1995 | Fibre Reinforced Cement Boards |
| EN (BS, NEN) | 12467: 2000 | Fibre-Cement Flat sheets |
| TIS | 1427 - 2540 | Fibre-Cement Flat sheets |

Application for Usage

| Size (mm) | Thickness (mm) | Application for Usage |
|----------------------------|------------------|---|
| 1200 x 2400 1220 x 2440 | 3.2, 3.5, 4, 4.5 | <ul style="list-style-type: none"> • Internal Ceiling • Decorative Ceiling • Under shaded Ceiling |
| 1200 x 2400 1220 x 2440 | 6 | <ul style="list-style-type: none"> • Decorative Partition • Internal Partition |
| 1200 x 2400 1220 x 2440 | 8 | <ul style="list-style-type: none"> • External Partition • Decorative Partition • Sub roof |
| 1200 x 2400 1220 x 2440 | 10,12 | <ul style="list-style-type: none"> • Exterior wall • Exterior cladding • Wet area and Tile backing • Sub roof • Floor underlay |
| 1200 x 2400 1220 x 2440 | 15,18,20 | <ul style="list-style-type: none"> • Elevated floor |

Technical Data

Physical properties

| | |
|-----------------------|--|
| Thickness Tolerance | $\pm 6\%$ |
| Density | $1,300 \pm 50 \text{ kg/m}^3$ |
| Modulus of Rupture | $> 7 \text{ MPa (Wet)}$ |
| Modulus of Elasticity | $5,500 \pm 500 \text{ MPa (Wet)}$ |
| Water Absorbtion | $\leq 35\%$ |
| Moisture Content | $\leq 12\%$ |
| Water tightness | Pass |
| PH Value | 7-8 |
| Thermal Conductivity | 0.15 W/m.K |
| Acoustic Insulation | STC = 30 dB (6 mm single board) STC = 50 - 60 dB (10 mm composite wall) |
| Moisture Movement | 0.04% |

Fire resistance properties

| | |
|-------------------------|---------|
| Ignitibility | Pass |
| Fire propagation index | I = 0 |
| Surface spread of flame | Class 1 |

Durability properties

| | |
|------------------------|------|
| Freeze/Thaw resistance | Pass |
| Warm water resistance | Pass |
| Heat/Rain resistance | Pass |
| Soak/Dry resistance | Pass |

Installation

Tools: No special tools are required. The products can be hit by normal nails like wood work, fastened by normal or self-drilling screw and cut by electric power saw with diamond blade.

Fixing: the board can be fixed to both timber with minimum size 1.5 x 3 inch. or steel frame with at least 0.55 mm thickness. The board must be supported at the edged at intermediate positions with centers not exceeding 600 mm. Fastener must be located at more than 12 mm from edges and 50 mm from board corners.

Fastener: Fastener can be both nails and screw. It can be nailed directly to timber supports with round wire nails. For metal screws, the size and length of the screw will be according to thickness of the board and the gauge of framing. Pre-drilling the board is a must, otherwise, Self-embedding, self-drilling head screws are preferred.

Jointing: Since fibre-cement board is subjected to slightly dimensional changes, butt joint can be used in dry partitioning area or where the exposed joint appearance is acceptable. For better water protection, either flexible acrylic or polyurethane based sealant can be used to seal the gap of 3-5 mm.

Conditions

Transportation, Handing and Storage: Deliver the board to project site in original, unopened package and store them in fully enclosed space where they will be protected against damage from humidity, direct sunlight, surface contamination and other causes. Handle the board carefully to avoid chipping edges or damaging units in any way. Handing and store practice shall be followed manufacturer's suggestion.
