PRÎMA

# PRÎMA*liner*

Hume Cemboard Industries

A Member of the Hong Leong Group

## Features

# PRIMA*liner*

## Smooth Lining for Walls and Ceilings

Immune to Permanent Moisture Damage

***Applications:***
Internal Drywall (Wet Area System, Sound Rated System, Fire-Rated System)

A premium quality fibre cement board with square rebated edges for flush jointed internal walls.

The continuous quest for better value for money and improvement are very common objectives. Now you have the comfort of knowing that the PRIMA*liner* you have chosen will provide the on-going high performance and durability requirements.

PRIMA*liner* is a high quality, high impact, fire resistant, fibre cement lining board ideal for walls in both domestic and commercial construction.

**Product Benefits**

- Immune to Permanent Moisture Damage
- High Impact Strength
- Termite Resistant
- Fire Resistant
- Climate-Friendly
- Good Sound Insulation

## Material Properties & Composition

### Material & Application Specifications

| Sizes (mm) | 1220mm x 2440mm | | |
|---|---|---|---|
| Thickness (mm) | 6 | 9 | 12 |
| Mass per sheet (kg) | 25.22 | 37.23 | 51.19 |
| Sound Transmission Loss (dB) | 25 | 28 | 30 |

| Application Requirements/ Thickness | 6mm | 9mm | 12mm |
|---|---|---|---|
| Ceiling Lining | • | • | • |
| Wall Lining | • | • | • |
| Fire-Rated Wall | • | • | • |

| Properties | Values |
|---|---|
| Product Composition | • Top Grade Cellulose Fibre<br>• Finely Ground Sand<br>• Portland Cement<br>• Water |
| Nominal Density | EMC=1390kg/m$^3$ |
| Moisture Movement at EMC | Approximately 7% |
| Moisture Movement (from EMC to saturated) | 0.06% |
| Thermal Conductivity, k Value | 0.30W/mK |
| Thermal Insulation, R Value | 6.0mm - 0.030 m2 K/W<br>9.0mm - 0.045 m2 K/W |
| Flexural Strength at EMC | 14 MPa Dry<br>8 MPa Wet |
| Fire Resistant | Class O (BS 476: Part 6 and BS 476: Part 7) |

Note: Where values are stated at EMC, the Ambient Temperature is 27° C± 2° C and Relative Humidity is between 65% - 95%.

# Framing & Fixing Specifications

## Framing Requirement

| Support Framing Centre Distance (mm) | |
|---|---|
| Stud/ joist spacing | ***610mm*** maximum |
| Nogging spacing | ***1220mm*** maximum |
| Support face width: | ***50mm*** minimum (timber) |
| | ***36mm*** minimum (steel) |

The table stipulates the minimum framing requirement. It is a good building practice to provide equal support spacing not exceeding the recommended centre distance to suit the sheet size. In all cases sheet edges must be supported.

Timber framing should be thoroughly selected and dried to minimize shrinkage when boards are installed. Steel frame thickness should be ***0.50mm*** base metal thickness (BMT) to ***1.55mm*** BMT.

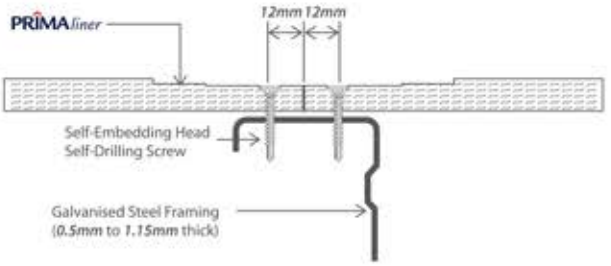
***** Please refer to HCI technical department for further detail.***

PRIMA*liner* may be fixed to either timber or steel framing. The fasterner specifications and fixing distance shall be in accordance with Table T1 & T2.

## Table 1: Fastener Specifications

Table below show the suitable type of the fastener on the right framing:

| **Fixing to Timber Support** | **Fixing to Steel Support**<br>(0.50 – 0.75) mm BMT - Screw with no Wingteks<br>(0.75 – 1.15) mm BMT - Screw with Wingteks |
|---|---|
| Galvanised Fibre Cement Nails<br>(for fixing to softwood and hardwood) | Self-Embedding head,<br>Self-Drilling and reamer point screws<br>(for fixing to light gauge steel frame) |
|  |  |
| • ***2.8mm ø x 30mm*** for softwood | • 8 gauge - ***#18 x 25mm*** long to fix ***6mm*** board |
| • ***2.0mm ø x 25mm*** for hardwood | • 8 gauge - ***#18 x 30mm*** long to fix ***9mm*** board & ***12mm*** board |




**Fasterner Fixing Detail Figure**

Note:

1. Screw fixing is only suitable for ***6mm*** thick board and above.
2. Screw head must be embedded ***0.5mm*** below board surface.
3. Nails and screw must be suitable coated for the intended applications

All nails shall comply with '***AS 2334: 1980 - STEEL NAILS - METRIC SERIES***' or equivalent standard.

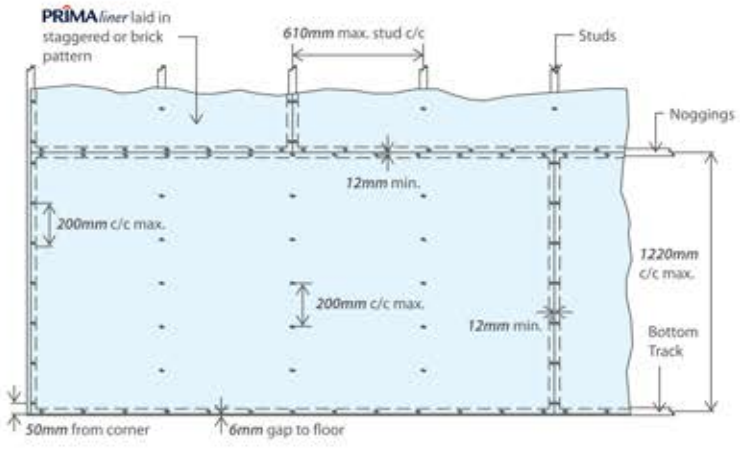
All screws shall comply with '***AS 3566: 1988; SCREWS - SELF DRILLING - FOR THE BUILDING AND CONSTRUCTION INDUSTRIES***' or equivalent standard.

## Table 2: Fastener Fixing Distance

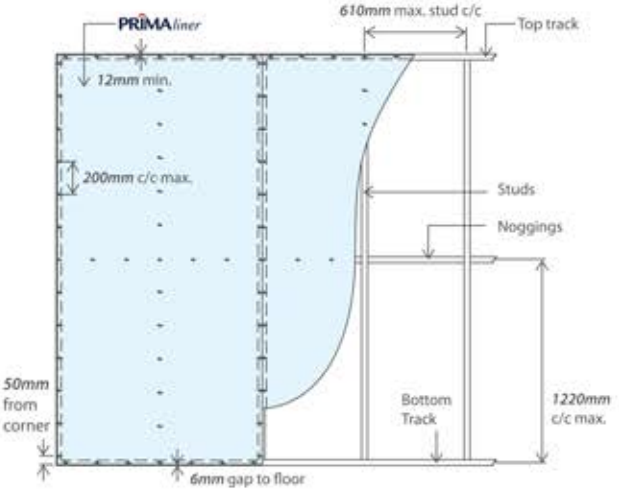
| Fastener Fixing Distance For **Untiled Wall** | Fastener Fixing Distance For **Tiled Wall & Fire Rated Wall** |
|---|---|
| ***12mm*** minimum from edges | ***12mm*** minimum from edges |
| ***50mm*** minimum from corners | ***50mm*** minimum from corners |
| ***200mm*** centres spacing along edges | ***200mm*** centres spacing along edges |
| ***300mm*** centres spacing elsewhere | ***200mm*** centres spacing elsewhere |

## Flush Joint Wall Applications

PRIMA*liner* sheets must be fixed horizontally (Figure L1) or vertically (Figure L2), ensuring the vertical sheet joint on one side of the stud does not coincide with the vertical sheet joint on the other side to further enhance the stability of the wall.




**Horizontal Sheet Fixing = Figure L1**




**Vertical Sheet Fixing - Figure L2**

Note: PRIMA*liner* sheets must be fixed with a clearrance gap of 6mm from ground floor surface.

# Flush Joint Ceiling Applications

## 1. Installation Specification

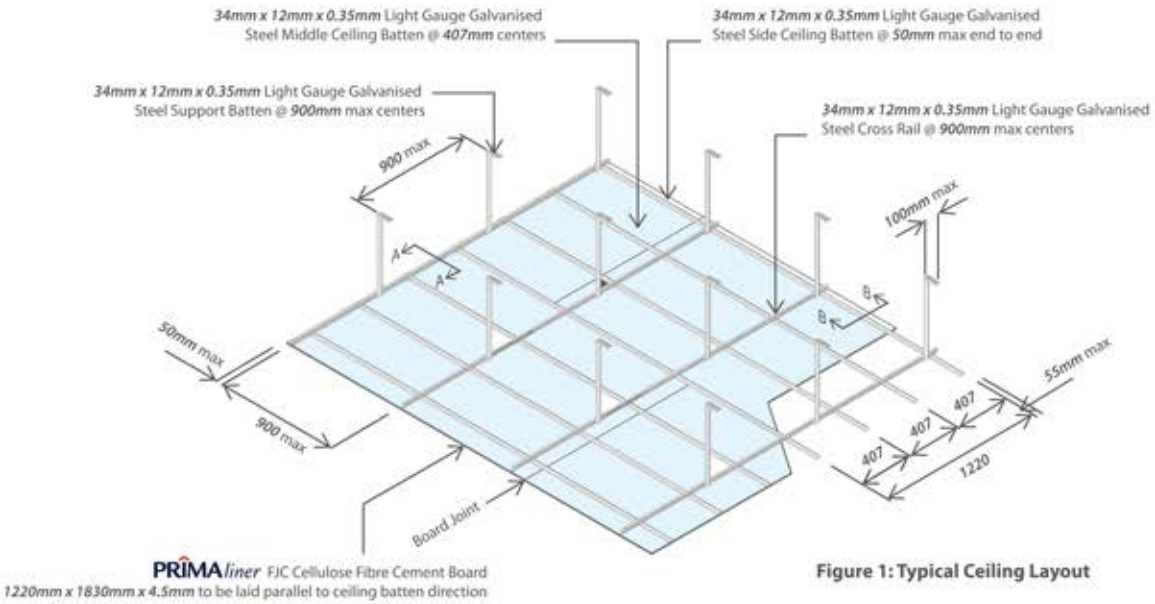



**Figure 1: Typical Ceiling Layout**

**Figure 1a: A' - A' Section Detail**

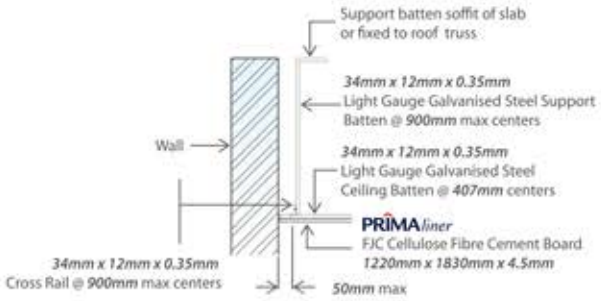
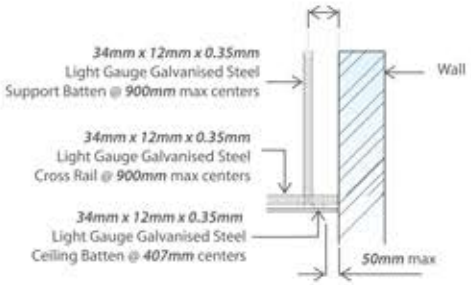



**Figure 1b: B' - B' Section Detail**




## 2. Board Installation

Board shall be in staggered pattern arrangement

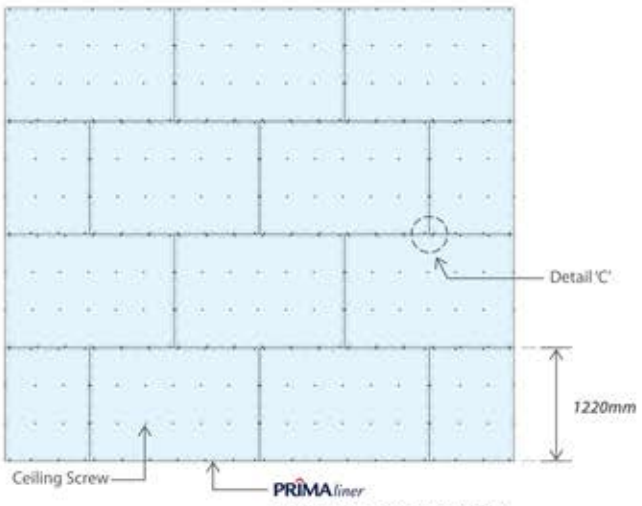
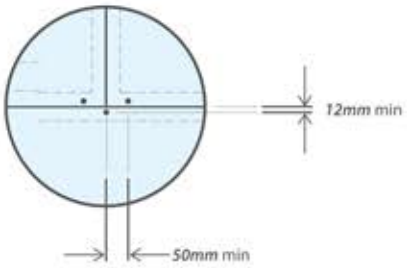



**Figure 2**

**Figure 2a: DETAIL 'C'**




## 3. Fastener Fixing Distance

Place fasteners ***12mm*** from board edges and ***50mm*** from corners. Fasteners must be spaced maximum ***300mm*** centres at the board perimeter and intermediate framing.

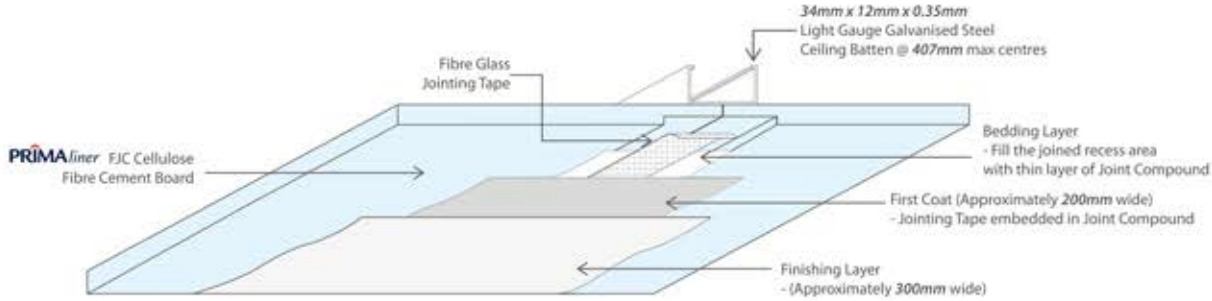



**Figure 3: Flush Joint Detail**

## 4. Flush Joint Detail

Board joint can be treated by incorporating the Perforated Paper Jointing Tape and Gypsum Joint Compound. Best result can be achieved when both board edges have recesses. If it becomes necessary to flush set over no recessed edges, the Bedding Layer, First Coat and Finishing Coat should be broadened to fill the joined ***200mm*** and ***300mm*** respectively. Lightly sand the Board Joint when dry to get a smooth finish before painting.

## 5. Painting

After the sanding process, the board must be painted with a minimum of 2 layers water-based Arcylic Paint. Make sure the board surface is in smooth condition and free from dust or any contaminant.

## 6. Access Panel Detail

Two sizes are available: ***300mm x 300mm*** and ***450mm x 450mm***.
***(Please refer to HCI for further information.)***

## 7. Expansion Joint Detail

Expansion Joint should be provided at every ***9000mm*** c/c formed using Heels with square cut edges. Provide an approximately ***6mm*** wide gap between sheets and seal with paintable flexible Sealant. Do not apply Jointing Compound at the expansion joint.

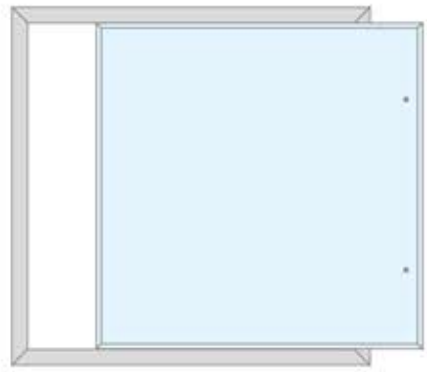
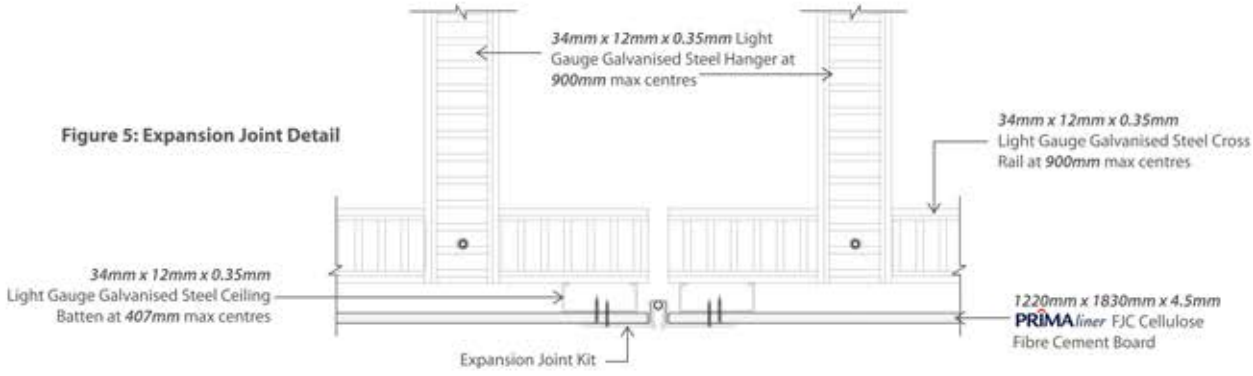
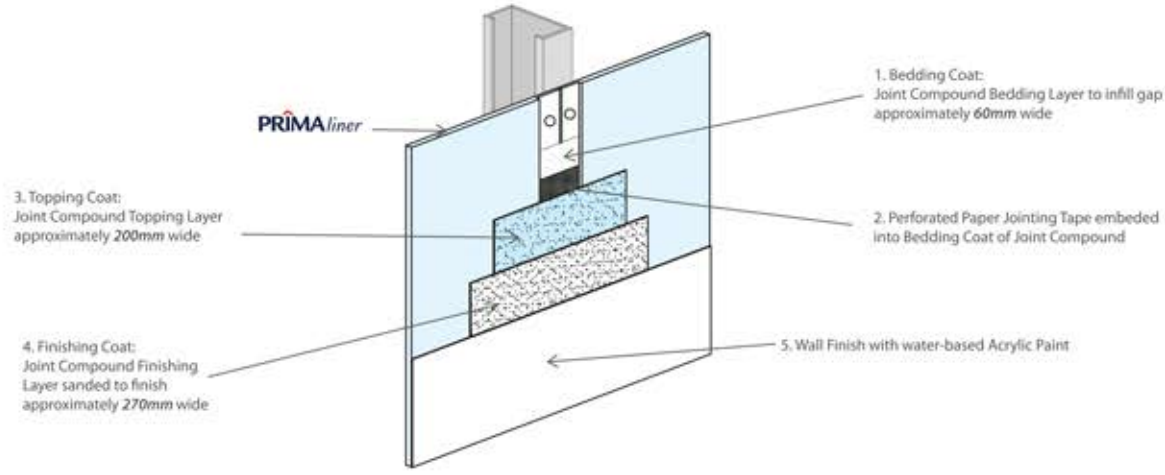


**Figure 4: Access Panel Detail**

**Figure 5: Expansion Joint Detail**

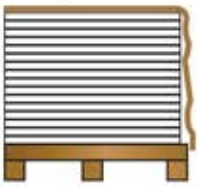


# Handling & Finishing

All PRIMA*liner* boards must be stacked flat, off the ground, and supported on a level platform. Care must be taken to avoid damage to edges, ends and surfaces. Material must be kept dry, preferably by being stored inside a building. Where it is necessary to store material outside, it must be protected from the weather.

## Storage



- Store sheets neatly on a flat surface supported evenly with bearers spaced at *600mm* centres maximum, clear of the ground to avoid damage and moisture ingress.
- Store under cover and ensure sheets are dry prior to fixing. Never install damp sheets. Damp Sheets must be allowed to dry to equilibrium moisture content (EMC) before fixing.

## Handling

- Always ensure at least 2 persons are lifting the board at the same time in an upright position.
- Do not hold on each end on edge.
- Exercise care when handling PRIMA*liner* to avoid damaging the corner.

## Cutting

The following mathods may be used for cutting PRIMA*liner* boards:

Score & Snap

Saw Cut

## Notching & Penetrations

Notching

Forming Round Hole

Forming Rectangular Hole

## Finishing

Paint

Wall Covering

Texture Coating

Tiles

PRIMA*liner* can be decorated with 2 coats of 100% quality water-based acrylic paint. For general-purpose applications, there is no requirement for primers or sealers. Please refer to paint manufacturer for advice.

Alternatively, the sheet surface can be decorated with wall covering materials, such as wall paper. In all cases, coating manufacturer's recommendations must be strictly adhered to. For wet area application, tile finishing may be preferable.

All PRIMA*liner* products come with a solid 10-year warranty on any defects or irregularities in its products.



**WARRANTY**

Hume Cemboard Industries Sdn Bhd ("the Company") warrants that it will at all times ensure that the products referred to herein ("the Products") shall be supplied by it to the purchaser free of any manufacturing defects and defective materials used in their manufacture.

In the event and if contrary to this assertion the Products prove to be defective, whether as a result of manufacturing defects or arising from the Company's use of defective materials, the Company will supply replacement Products. The Company shall, however, have the option and may choose to reimburse the purchaser the purchase price of the Products instead. The Company shall not be liable for any economic or consequential losses arising from any use of defective Products.

This warranty shall be void unless the purchaser has, in its handling and installation of the Products, complied with the recommendations contained in this brochure and other good building practices expected of a reasonable purchaser.

**ADVISORY NOTE**

Successful installations of Hume Cemboard Industries Sdn Bhd's Products depend on a large number of factors that are outside of the scope of this brochure. Particular design, detail, construction requirements and workmanship are beyond the control of the Company. As such, Hume Cemboard Industries Sdn Bhd's warranty does not extend to non-usability of Products or damage to Products arising from poor or defective designs or systems or poor quality of workmanship in the installation of Products.

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