PRÎMA

Hume Cemboard Industries
A Member of the Hong Leong Group

PRÎMA*flushjointceiling*

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PRĪMA*flushjointceiling*

The Right Choice for Your Ceiling Solution

Applications:
Residential (Dry or Wet Area), Hospital / Health Care Centres, Laboratory, Bathroom, Retail Store, Office, Conference Room, Corridors, School, Living Room, Bedroom, Offices, Retail Shops

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PRĪMA*liner* FJC for interior applications is a **4.5mm thickness x 1220mm x 1830mm** fibre cement board with **4** sided rebated edges, while for exterior applications is a **6mm thickness x 1220mm x 2440mm** fibre cement board with **2** sided rebated edges. It is specifically formulated and designed as a ceiling lining for PRĪMA*flushjointceiling* system.

With its water and impact resistant properties, this system is designed for indoor & outdoor seamless ceiling application.

PRĪMA*flushjointceiling* system is suitable for internal ceiling applications in dry and wet areas where the clear distance between roof and ceiling board level is at least **600mm**. In addition, roof system must incorporate bulk insulation such as fiberglass or mineral wool. Most importantly this board do not contribute to any safety and health risk.

**This system is not recommended for narrow eaves (eaves with less than 600mm average clearance).*

Product Benefits

• Simple Installation
• Suitable for Wet or Dry Area Ceiling
• Strong and Durable
• Cost Efficient
• Smooth and Flat Seamless Joint Finish

• Aesthetically Appealing
• Hazard Free
• Fire, Fungus and Termite Resistant
• Versatile

• Ideal Substrate for Paint Coating
• Low Maintenance
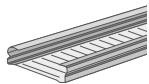• Water Resistance and Low Moisture Movement

System Components
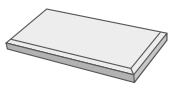
PRĪMA*liner* FJC
These boards are manufactured in standard sizes of **4.5mm x 1220mm x 1830mm** and **6mm x 1220mm x 2440mm**.

PRĪMA*liner* FJC Screw
Countersunk Self-Embedding Head, Needle Point or Self-Drilling Screws' size **No.6 x 19mm** long.

Ceiling Batten
Light Gauge Cold-Formed Galvanised Steel C-Section **34mm (width) x 12mm (depth) 0.35mm (base metal thickness)**.

Jointing Compound
Gypsum Powder or Ready-Mixed Jointing Compound for interior applications. Exsulite Render Mixed and AA Putty Filler-H for exterior applications.
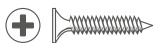
Gypsum Screw
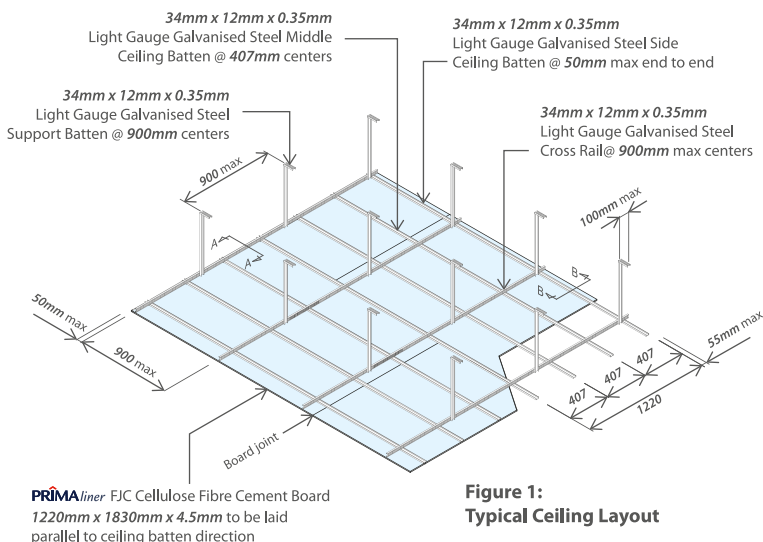A Class 1 Finish **No.6 x 25mm** long for Frame System Assembly.

Reinforcement Tape
50mm width high strength special Cross-Fiber Perforated Paper Tape for interior applications or Fiberglass Tape for exterior applications.
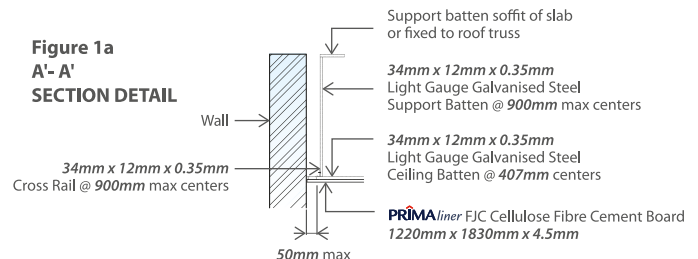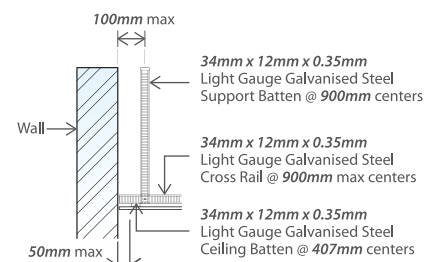
Fixing Method

1. Installation Specification

34mm x 12mm x 0.35mm
Light Gauge Galvanised Steel Middle Ceiling Batten @ **407mm** centers

34mm x 12mm x 0.35mm
Light Gauge Galvanised Steel Support Batten @ **900mm** centers

34mm x 12mm x 0.35mm
Light Gauge Galvanised Steel Side Ceiling Batten @ **50mm** max end to end

34mm x 12mm x 0.35mm
Light Gauge Galvanised Steel Cross Rail @ **900mm** max centers

900 max
900 max
50mm max
100mm max
55mm max
407 407 407
1220

PRĪMA*liner* FJC Cellulose Fibre Cement Board
1220mm x 1830mm x 4.5mm to be laid parallel to ceiling batten direction

Figure 1:
Typical Ceiling Layout

Figure 1a
A'- A'
SECTION DETAIL

Wall

34mm x 12mm x 0.35mm
Cross Rail @ **900mm** max centers

Support batten soffit of slab or fixed to roof truss

34mm x 12mm x 0.35mm
Light Gauge Galvanised Steel Support Batten @ **900mm** max centers

34mm x 12mm x 0.35mm
Light Gauge Galvanised Steel Ceiling Batten @ **407mm** centers

PRĪMA*liner* FJC Cellulose Fibre Cement Board
1220mm x 1830mm x 4.5mm

50mm max

Figure 1b
B'- B'
SECTION DETAIL

Wall

100mm max

34mm x 12mm x 0.35mm
Light Gauge Galvanised Steel Support Batten @ **900mm** centers

34mm x 12mm x 0.35mm
Light Gauge Galvanised Steel Cross Rail @ **900mm** max centers

34mm x 12mm x 0.35mm
Light Gauge Galvanised Steel Ceiling Batten @ **407mm** centers

50mm max

Fixing Method

Ceiling Screw

PRIMAliner FJC Cellulose Fibre Cement Board
1220mm x 1830mm x 4.5mm (4 sided rebated edges)

Figure 2

DETAIL 'C'

1220mm

2. Board Installation
Board shall be in staggered pattern arrangement
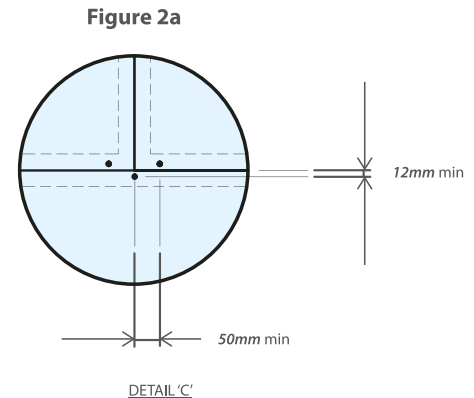
Figure 2a

12mm min

50mm min

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.
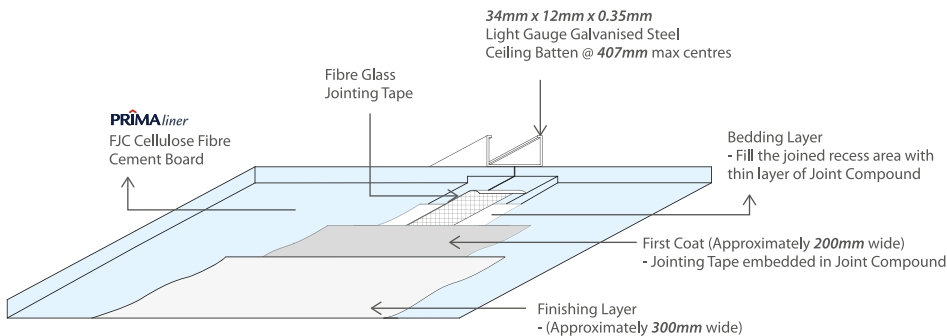
4. Flush Joint Detail
Board joint can be treated by incorporating the Perforated Paper Jointing Tape and Gypsum Joint Compound. Best result can be achieved when both board edges have recesses. If it becomes necessary to flush set over no recessed edges, the Bedding Layer, First Coat and Finishing Coat 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.

PRIMAliner
FJC Cellulose Fibre
Cement Board

Fibre Glass
Jointing Tape

34mm x 12mm x 0.35mm
Light Gauge Galvanised Steel
Ceiling Batten @ *407mm* max centres

Bedding Layer
- Fill the joined recess area with thin layer of Joint Compound

First Coat (Approximately *200mm* wide)
- Jointing Tape embedded in Joint Compound

Finishing Layer
- (Approximately *300mm* wide)

**Figure 3:
Access Panel Detail**

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*.
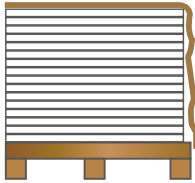*(Please refer to HCI for further information.)*

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.

34mm x 12mm x 0.35mm
Light Gauge Galvanised Steel Hanger
at *900mm* max centres

34mm x 12mm x 0.35mm
Light Gauge Galvanised Steel
Cross Rail at *900mm* max centres

34mm x 12mm x 0.35mm
Light Gauge Galvanised Steel
Ceiling Batten @ *407mm* max centres

Expansion Joint

PRIMAliner FJC Cellulose
Fibre Cement Board
1220mm x 1830mm x 4.5mm
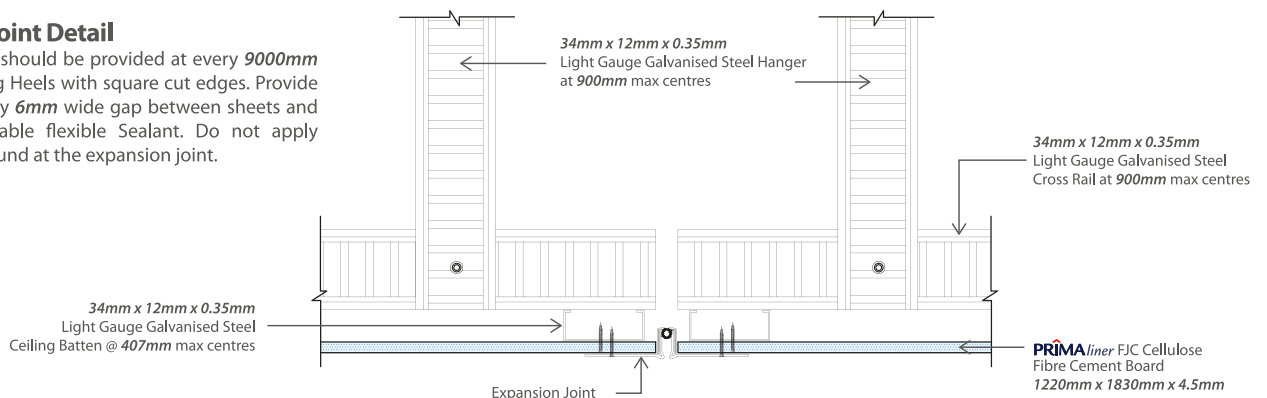
Storage

- Store sheet neatly on a flat surface supported evenly with bearers spaced at **600mm** centres maximum, clear the ground to avoid damage and moisture ingress. Store under cover and ensure boards are dry prior to fixing. Never install damp boards. Damp boards 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* FJC to avoid damaging the corners.

Opening

Forming Round Opening
A round opening can be obtained by drilling a series of small holes at the perimeter of the opening, and tapping out the waste using a hammer. Ensure that the back face of the sheet around the opening is properly supported.

Forming Rectangular Opening
A large rectangular opening may be made using the method outlines as follow:
- Score around the perimeter of the rectangular opening using a score-and-snap knife.
- Drill a large circular hole at the centre of the rectangular opening.
- Saw cut from the centre of the opening to each corner of the rectangular opening.
- Snap the waste piece upward. Or use power cutter to cut at the perimeter of the rectangular opening.
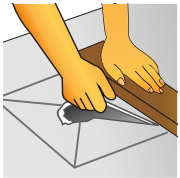
Cutting

Dry cutting with power tools should be perfomed in a high-ventilated area or open-air situation using a Power-Saw fitted with Dust-Extracting attachments.
The board may be cut using special Tungsten-Tipped Scoring Knife or any power cutting tools. The following methods may be used for cutting PRIMA*liner* FJC Board;
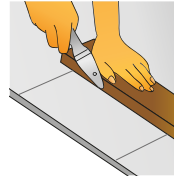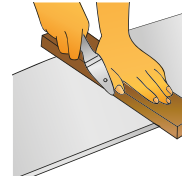

Score & Snap
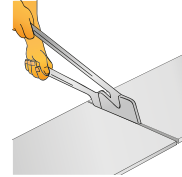
Hand Guillotine

Machine Cut

Notching

Rebating

Use the Angle Grinder equipped with Diamond-Tipped Saw Blade to form recess/rebated edge on cut sheets. The nominal board thickness is **4.5mm** and the minimum board thickness at the rebated edges should be **3.7mm**.

Finishing

In order to achieve excellent aesthetic finishing, it is recommended to use 100% water-based quality Acrylic Paints. Generally a minimum of 2 coats is required. Do not use solvent-base paint. There is no need to apply Primers or Sealers. In any case, coating manufacturers' recommendation must be adhered to.

Termite Resistant · Fire Resistant · Water Resistant · Weather Resistant · Environmentally Friendly · Superior Paint Adhesion · High Workability · Aesthetically Pleasing · Impact Resistant · Sound Insulation