



PRIMA *flex*TM

Features



PRIMAflex™

Smooth & Flat Sheet

Multipurpose for Internal & External application

PRIMAflex™ is the first choice in flat sheets of multipurpose fibre cement board among industry professionals for ceilings, partitions, garble ends, wall cladding, paneling, and a host of other building applications. **PRIMAflex™** has a unique combination of physical and mechanical properties that make it superior to other boards.

PRIMAflex™ is autoclaved for superior durability, flexibility and outstanding dimensional stability. Quality has never been better with the state-of-the-art technology and ultra modern processes employed in the manufacture of **PRIMAflex™**.

PRIMAflex™ performs exceptionally well when all aspects of good design detailing and workmanship are met. **PRIMAflex™** has demonstrated strong resistance to termite attack based on client Report No. 1844, tested by CSIRO Forest Biosciences.

Product Benefits

- Termite Resistant
- Structurally Strong
- Fire Resistant
- Cost Effective
- Weather Resistant
- Light Weight
- Excellent Workability
- Strong and Durable
- 100% Asbestos Free
- Fungus Resistant
- Low Maintenance
- Impact Resistant
- Dimensionally Stable
- Smooth, Flat and Uniform Surface
- Excellent Sound Insulation
- Better Heat Insulation

Properties

Values

Product Composition	<ul style="list-style-type: none"> • Top Grade Cellulose Fibre • Finely Ground Sand • Portland Cement • Water 	
Nominal Density	1390kg/m ³	
Moisture Content	EMC = 7%	
Moisture Content at Saturation	33%	
Minimum Bending Strength, MoR	Dry = 16MPa; Wet = 10MPa	
Fire Rating	Class O (BS 476.6 & BS 476.7)	
Fungus Resistance	Passes (ASTM G 21)	
Termite Resistance	Resistance to Damage (Field evaluation conducted by CSIRO)	
Frost Resistance	Passed (AS/NZS 2908.2, MS 1296)	
Surface Coating	Pre-Primed available	
Thermal Conductivity, k Value (Mean temperature of 41.93°C)	0.24W/mK	
Sound Transmission Class* (Estimated based on mass)	4.5 mm - 26 dB	16.0mm - 35 dB
	6.0 mm - 28 dB	18.0mm - 36 dB
	7.5 mm - 29 dB	20.0mm - 37 dB
	9.0 mm - 31 dB	
	12.0mm - 33 dB	
Length & Width Tolerances <small>(full size board of 1220mm x 2440mm)</small>	+0mm, - 2mm of nominal size	

Product sizes and Mass per sheet (kg), based on nominal density

Width (mm)	Length (mm)	Thickness (mm)													
		3.2	3.5	4.5	6	7.5	9	12	16	18	20				
450	2400			6.76											
600	2400	6.41	7.01	9.01	12.01										
	2700	7.21	7.88	10.13	13.51										
	3000	8.01	8.76	11.26	15.01										
603	603	1.62	1.77	2.27											
	1213	3.25	3.56	4.58											
610	1220	3.31	3.62	4.65	6.21										
900	1800			10.13											
	2400			13.51											
	3000			16.89											
1200	1800			13.51	18.01										
	2400			18.01	24.02		36.03	48.04	64.05	72.06					
	2700			20.27	27.02										
	3000			22.52											
1220	1220	6.62	7.24	9.31	12.41										
	2440		14.48	18.62	24.83	31.03	37.24	49.65	66.20	74.48	82.76				

NOTE: Highlight sizes ■ indicates products available in Malaysia.
Some products listed may not be available in your area, if in doubt, please check with PRIMA sales representative.
Some products may require longer lead time, or is subjected to MOQ. Please check with PRIMA sales representative.

Applications

PRIMAflex™
for Every Requirement



Ceiling, Eaves & Soffit Linings

PRIMAflex™ offers versatility and high workability.

Recommended thickness:
3.2mm, 4.5mm & 6.0mm



Flooring

PRIMAflex™ makes remarkably impact-resistant and hard-wearing floors.

Recommended thickness:
16.0mm - 20.0mm



Wall Cladding (Internal & External)

PRIMAflex™ is suitable for wall claddings, both internal and external. Economical and durable.

Recommended thickness:
6.0mm - 12.0mm



Permanent Formwork

PRIMAflex™ is ideal for heavy duty applications such as permanent formwork. By using fibre cement the challenges of conventional formwork can be overcome, such as the use of plywood, difficulty and costliness in erecting scaffolding and rough surface finishing.

Recommended thickness:
12.0mm - 20.0mm



Water Tank Support

PRIMAflex™ with high durability, plus its superior resistance to water, mould and termites, also make **PRIMAflex™** the ideal material for water tank support.

Recommended thickness:
12.0mm - 20.0mm



Roof Sarking

With the exceptional heat-insulation, sound-insulation and water-resistance properties, **PRIMAflex™** is the preferred choice for roof sarking application.

Recommended thickness:
6.0mm - 16.0mm



Partition & Pocket Wall

PRIMAflex™ with its superior impact-resistance, fire-resistance and sound insulation properties. Its amazing resistance to water and mould also make it better than either plywood or gypsum, especially for areas with adjoining bathrooms and kitchens, or in situations where the exposure to moisture is high.

Recommended thickness:
6.0mm - 16.0mm

Framing & Fixing Specifications

Framing Requirement

PRIMAflex™ sheets are suitable for fixing to timber or light gauge steel frames. Construction of framing shall be in accordance with local building practices.

- Stud spacing - 450mm maximum, for 4.5mm sheets and 600mm maximum for 6mm sheets and above
- Nogging spacing - 1200mm maximum

Stud and nogging face width:-

- Timber - 45mm minimum
- Steel - 38mm minimum

Where necessary, the face width may be increased by providing trim-packing to the side of the studs and noggings

Refer to **PRIMAflex™** Technical Manual for complete installation detail.

Fastener Specification

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

Fixing to Timber Support

Galvanised Fibre Cement Nails



- Min 2.0mmØ x 25mm for 3.2mm and 4.5mm thick boards
- Min 2.0mmØ x 30mm for 6.0mm and 7.5mm thick boards
- Min 2.0mmØ x 40mm for 9.0mm and 12.0mm thick boards

Fixing to Steel Support

(0.75mm to 1.55mm Base Metal Thickness)

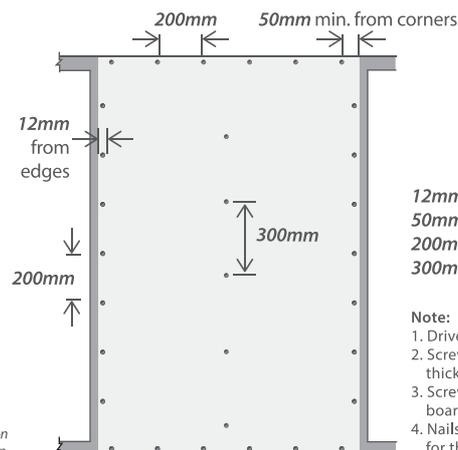
Prima Wingtek Self-Embedding screw



- No. 8 x 7/8" (22.0mm) for thick board from 4.5mm up to 6mm
- No. 8 x 1-1/8" (28.0mm) for thick board from 7.5mm up to 12mm
- No. 8 x 1-1/4" (32.0mm) for thick board from 12mm up to 16mm
- No. 8 x 1-3/4" (44.0mm) for thick board from 18mm up to 20mm

Other type of screws may also be suitable, but method of application could vary. Refer to screw manufacturer for proper recommendation.

Fastener Fixing Distance



12mm min. from edge
50mm min. from corner
200mm centres max. at sheet perimeter
300mm centres max. elsewhere

Note:

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

Fire Resistance

PRIMAflex™ is non-combustible based on test by CSIRO to AS 1530.1 standard. It is eminently suitable where non-combustible materials are required in accordance with C1.12 of the Building Code of Australia.

PRIMAflex™ has been tested in accordance with AS 1530.3; Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release.

- Ignitability Index 0
- Spread of Flame Index 0
- Heat Evolved Index 0
- Smoke Developed Index 0 - 1

PRIMAflex™ also has been tested in accordance with AS/NZS 3837, a method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter at 50kW/m² and it has been classified as Group 1 material based on specification A2.4 and C1.10a of the Building Code of Australia.

PRIMAflex™ has also been tested to BS 476, Part 5, 6 and 7 by Warrington Fire Research (UK).

Appraisals

(Volume 1 - Class 2 to Class g Buildings)

PRIMAflex™ Cladding Eaves Lining Boards have been appraised by CSIRO in meeting the requirements of Clauses CP4, FP1.4, P2.2.2 and P2.3.1 of the Building Code of Australia 2006.

(Volume 2 - Class 1 and Class 10 Buildings Housing Provisions)

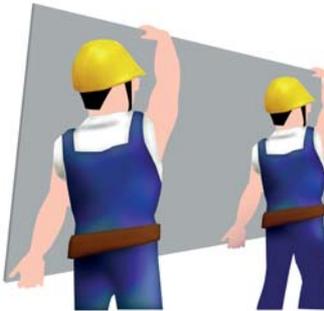
OPUS International Consultants Limited, New Zealand has determined the compliance of **PRIMAflex™** boards to AS/NZS 2908.2. Cellulose-cement products, Part 2 - Flat Sheets.

Handling & Storage

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 **PRIMAflex™** to avoid damaging the corner.



AS/NZS
2908.2

ASTM
C1186

Fire Resistance
AS 1530.3

Termite Resistance -
tested by CSIRO



Termite Resistant



Fire Resistant



Water Resistant



Weather Resistant



100% Asbestos free



Superior Paint Adhesion



High Workability



Aesthetically Pleasing



50 Years Durability

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.

The information stated in this brochure is correct at time of printing, and subject to change without notice. For the latest product update please refer to www.primafibreceement.com.

For more information, please contact us at:



A Member of the Hong Leong Group

No. 12 Jalan Tandang, 46050 Petaling Jaya, Selangor, Malaysia.

Tel: +603 7781 1977, +603 7625 9999, + 603 7625 3880

Fax: +603 7625 7822, +603 7625 3990

Email: sales@humecemboard.com.my

www.primafibreceement.com

PrimaHCI