



**PRIMA** *flex*<sup>TM</sup>

## 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, gable ends, wall cladding, paneling and 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 manufacturing 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"> <li>• Top Grade Cellulose Fibre</li> <li>• Finely Ground Sand</li> <li>• Portland Cement</li> <li>• Water</li> </ul>	
Nominal Density	EMC = 1390kg/m <sup>3</sup>	
Moisture Content	EMC = 7%    Saturation = 33%	
Moisture Movement	0.08% (EMC to Saturated)	
Minimum Bending Strength, MoR	Dry = 14MPa min ; Wet = 7MPa min	
Average Modulus of Elasticity, MoE	Dry = 6GPa ; Wet = 4GPa	
Fire Rating	Class O (BS 476 Part 6 & 7)	
Fungus Resistance	Passed (ASTM G21)	
Termite Resistance	Resistance to Damage (Field evaluation conducted by CSIRO)	
Frost Resistance	Passed (AS/NZS 2908.2, MS 1296, ISO 8336, BS EN 12467, ASTM C1186)	
Heat Rain Resistance	Passed (AS/NZS 2908.2, MS 1296, ISO 8336, BS EN 12467, ASTM C1186)	
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 6.0 mm - 28 dB 7.5 mm - 29 dB 9.0 mm - 31 dB 12.0mm - 33 dB	16.0mm - 35 dB 18.0mm - 36 dB 20.0mm - 37 dB

## 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	20 (laminated)
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					
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	82.76
1200	2400				24.02	30.02	48.04	64.05		

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.  
 Please contact with our friendly PRIMA sales representatives if you require special sizes (MOQ, terms and conditions apply).

# 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:  
9.0mm, 12.0mm, 16.0mm & 20.0mm



## 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:  
16.0mm & 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, 16.0mm & 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:  
9.0mm, 12.0mm & 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, 7.5mm, 9.0mm & 12.0mm

# 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 - 407mm/ 400mm maximum, for 4.5mm sheets and 610mm/ 600mm maximum for 6mm sheets and above
- Nogging spacing - 1220mm/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 shows the suitable type of the fastener on the right framing:

### Fixing to Timber Support

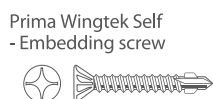
Galvanised Fibre Cement Nails



- 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

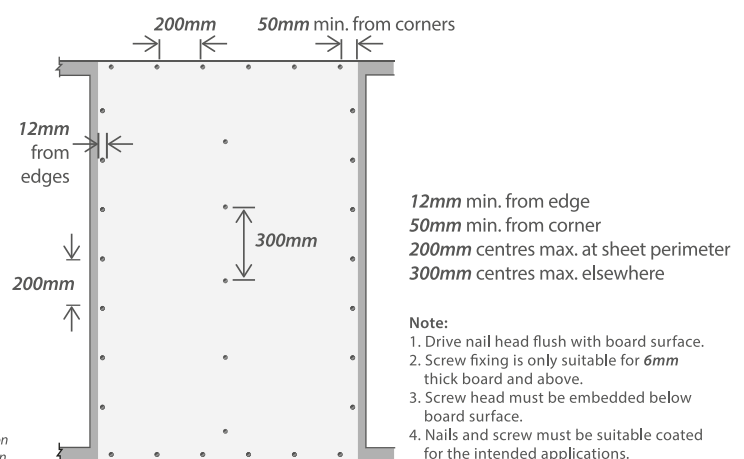
(0.75mm to 1.55mm Base Metal Thickness)



- 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



# 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/m<sup>2</sup> 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 tested to BS 476 Part 6 & 7 and meet the Bomba Class O requirement.

# Appraisals

## (Volume 1 - Class 2 to Class 9 Buildings)

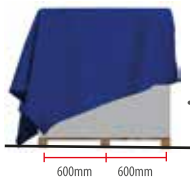
**PRIMAflex™** Cladding Eaves Lining Boards have been appraised by CSIRO in meeting the requirements of Clauses CP4, FP1.4, P2.2.2 and P2.3.1 of the Building Code of Australia 2006.

## (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.

 PPS (BAMAH BUKAAN) No. Pendaftaran: A004008 A005397	 Certified to MS 1296 : 2010 Certification No. PH000605 PH000614	 Certified to ISO 9336 : 2009 Certification No. PH000613	 Certified to BS476 Part 6 & 7 Certification No. LH000601 LH000603	 BAHAG KEMAS 'O' BS 476 : PART 6 : 1989 BS 476 : PART 7 : 1997	 SIRIM ECO-LABEL License No. ELH0006001	 MALAYSIA Hijualu My-HP00175/16	 Green Label SINGAPORE 641-026-1206 MADE FROM RECYCLED MATERIALS	
 Certified to ISO 9001 : 2015 Certification No. QMS 00214 QMS 00333	 Certified to ISO 14001 : 2015 Certification No. EMS 00481	 Certified Product Australian Standard AS/NZS 2908.2 Cellulose-cement products Part 2 - Flat sheets 1999	ASTM C1186	Fire Resistance AS 1530.3	Termite Resistance - tested by CSIRO	 BS EN 12467	 BRANZ Appraised Appraisal No. 635 (2016)	
 Termite Resistant	 Fire Resistant	 Water Resistant	 Weather Resistant	 100% Asbestos free	 Superior Paint Adhesion	 High Workability	 Aesthetically Pleasing	 50 Years Durability

For more information, please contact us at:



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