



**evowood**  
ENGINEERED BETTER

bracing board

**DURABLE. TRUSTED. NATURAL.**

## COMPLIANCE TO AUSTRALIAN STANDARDS

Evowood Bracing Board complies with the appropriate Australian Standard AS 1684.2 - 2010 (Residential Timber Framed Construction) in meeting the Australian Standard AS 1859.4 - 2004 - reconstituted wood based panels.

## STRUCTURAL BRACING PERFORMANCE

Evowood Bracing Board is manufactured by adding tempering oil to the hardboard during the baking process to deliver superior strength. Structural bracing panel designed to provide a permanent, easy to install and cost effective bracing system enabling the roof, wall, and floor framework in Australian designed buildings to resist horizontal racking forces such as high winds and earthquakes.

Evowood Bracing Board has been engineered and tested to comply with performance requirements of the National Construction code (NCC) incorporating the Building Code of Australia (BCA).

## PERFORMANCE BENEFITS



**Superior Strength:** Evowood Bracing Board boasts a high density, tensile strength, structural strength and internal bond equal to plywood. It is also durable, resistant to abrasions, will not split, splinter or crack.



**Water-Resistant:** This highly water-resistant Evowood Bracing Board is manufactured to withstand atmospheric conditions due to the tempering process.



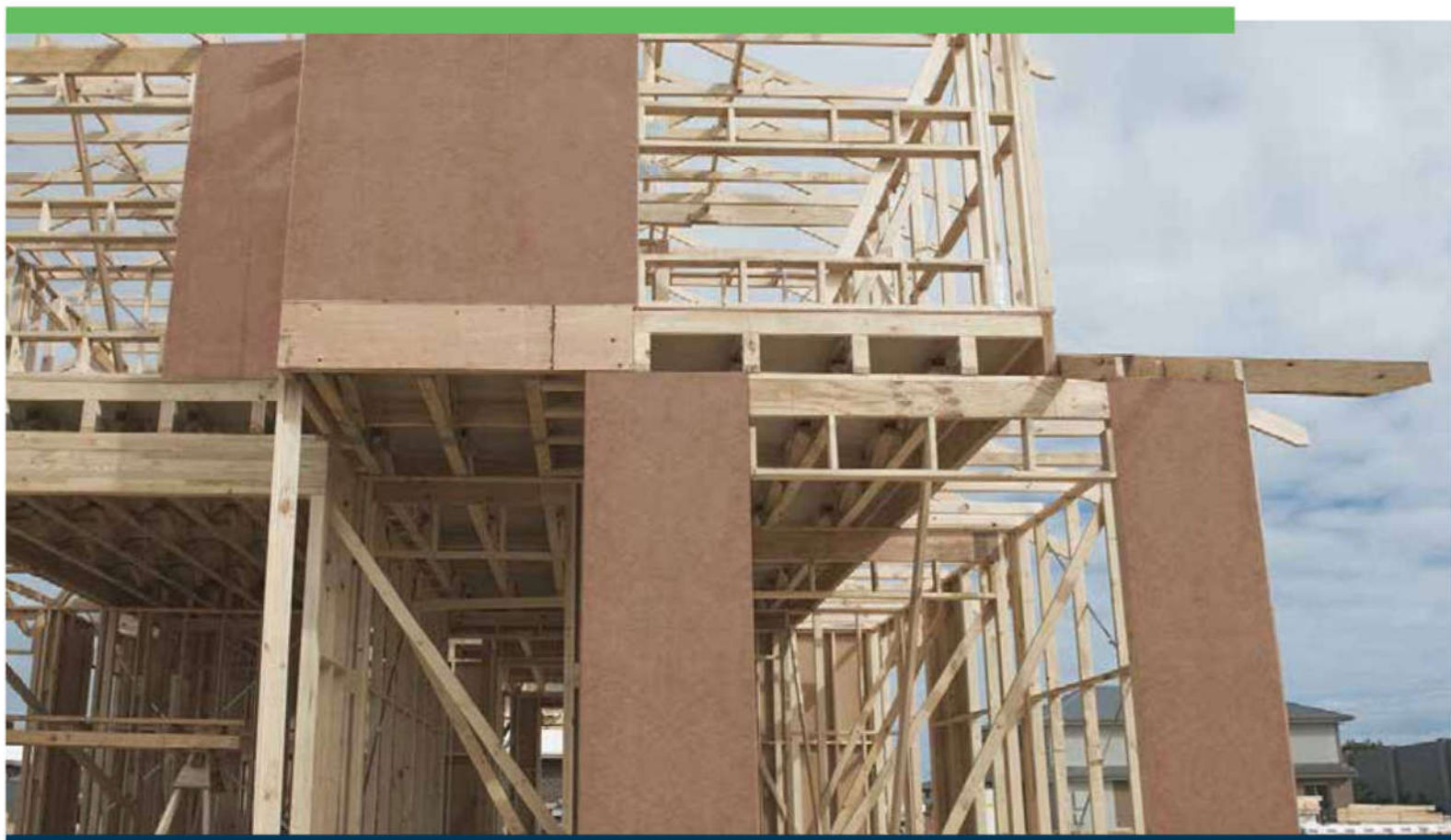
**Uniform:** Consistent density and thickness throughout each sheet of Evowood Bracing Board enables nails to be driven easily into the sheet and eliminates the need for continual adjustment.



**Engineered:** Evowood Bracing Board has been specifically engineered to remove all irregularities, such as grain and knots, to deliver a highly durable and uniform hardboard material.



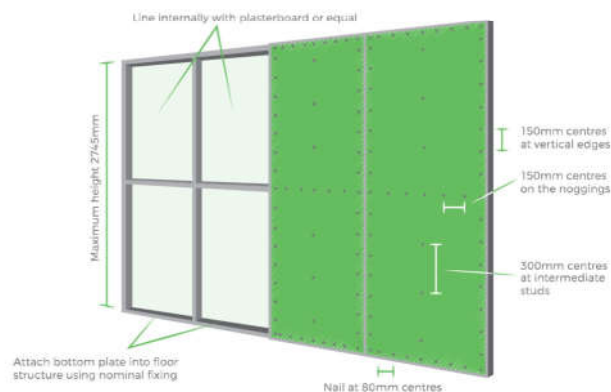
**Green:** Like all Evowood products, Evowood Bracing Board is formaldehyde free, carries an e-zero emission rating and is manufactured in accordance with FSC® regulations using natural binders.



All Evowood Bracing Board systems are to be installed in accordance with standard building design and construction methods as outlined in AS1684.2 Residential timber-framed construction. The fasteners for Evowood Bracing Board systems are galvanised or corrosion resistant flat head nails 2.8mm diameter x 30mm in length or equivalent. All nails should be located a minimum of 10mm from the vertical edges and 15mm from the top and bottom edges with at least one side of the bracing wall lined with gypsum plasterboard or equivalent. Detailed in this brochure are 5 bracing systems for wall heights of up to 2.7m. If wall heights exceed 2.7m, the bracing resistances must be reduced in proportion, e.g. for a 3.0m wall height, the racking resistance reduction factor would be  $2.7/3.0 = 0.9$

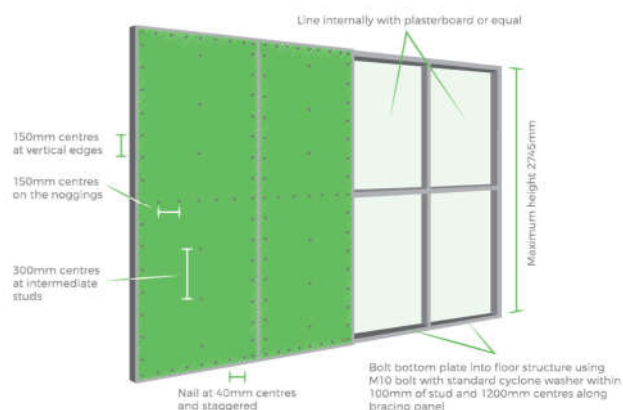
### SYSTEM 1 3.4kN/m

- Hardboard Type A (AS 1684.2)
- Maximum stud spacing = 600mm.
- Bracing panel minimum width = 900mm
- Fastener spacing
- Top and bottom plates: 80mm
- Vertical edges and nogging: 150mm
- Intermediate studs: 300mm
- Fixing of bottom plate to floor frame or slab: Nominal fixing only



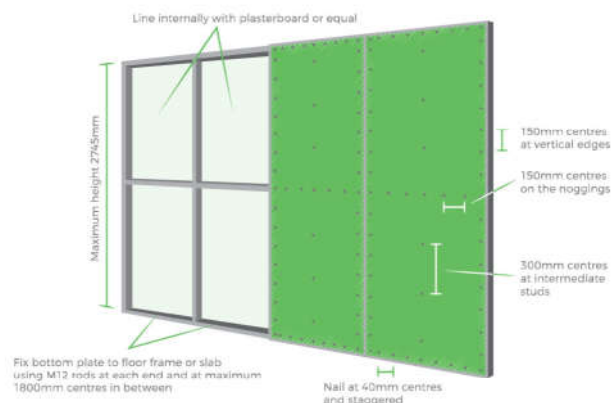
### SYSTEM 2 6.0kN/m

- Hardboard Type B (AS 1684.2)
- Maximum stud spacing = 600mm.
- Bracing panel minimum width = 900mm
- Fastener spacing
- Top and bottom plates: 40mm
- Vertical edges and nogging: 150mm
- Intermediate studs: 300mm
- Fixing of bottom plate to floor frame or slab: M10 bolts each end and intermediately at max. 1200 centres



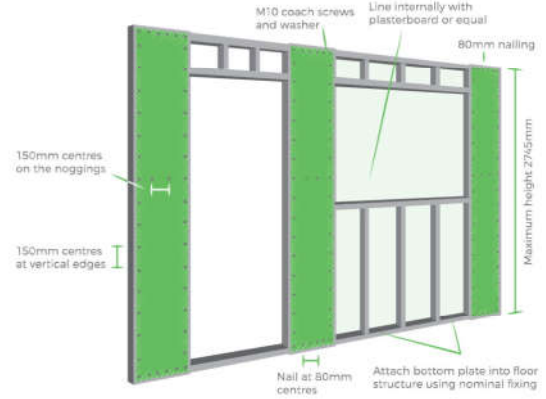
### SYSTEM 3 9.0kN/m

- Hardboard Type C (AS 1684.2)
- Maximum stud spacing = 600mm.
- Bracing panel minimum width = 900mm
- Fastener spacing
- Top and bottom plates: 40mm
- Vertical edges and nogging: 150mm
- Intermediate studs: 300mm
- Fixing of bottom plate to floor frame or slab: M12 rods at each end and at max. 1800 centres in between



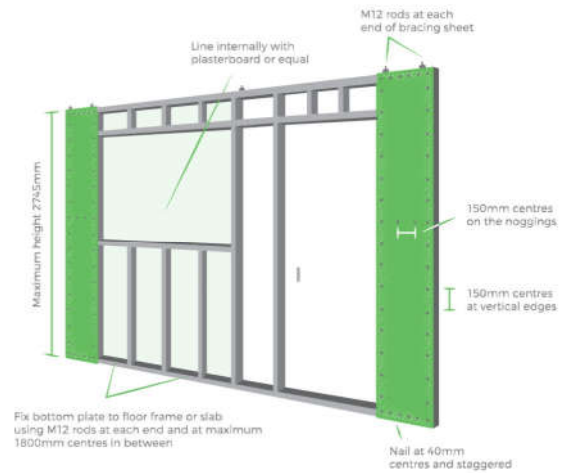
## SYSTEM 4 3.4kN/m (Short wall)

- Hardboard Type D (AS 1684.2)
- Maximum stud spacing = 600mm.
- Bracing panel minimum width = 460mm
- Fastener spacing
- Top and bottom plates: 80mm
- Vertical edges and nogging: 150mm
- M10 x 50mm coach screw with 30 x 38mm washer at each corner of panel
- Fixing of bottom plate to floor frame or slab:  
Nominal fixing only



## SYSTEM 5 6.0kN/m (Short wall)

- Hardboard Type E (AS 1684.2)
- Maximum stud spacing = 600mm.
- Bracing panel minimum width = 460mm
- Fastener spacing
- Top and bottom plates: 40mm
- Vertical edges and nogging: 150mm
- Fixing of bottom plate to floor frame or slab:  
M12 rods at each end



## BRACING SYSTEMS

System	Description	Limit State Design (racking capacity)	Comment in reference to AS 1684.4 - 2010
SYSTEM 1 - Hardboard Type A (AS 1684.2)	With nominal bottom plate fixing	3.4kN/m	Min 900mm panel width
SYSTEM 2 - Hardboard Type B (AS 1684.2)	With anchor bolts	6.0kN/m	Min 900mm panel width
SYSTEM 3 - Hardboard Type C (AS 1684.2)	With anchor rods	9.0kN/m	Min 900mm panel width
SYSTEM 4 (Short wall) - Hardboard Type D (AS 1684.2)	Shortwall with coach screws (max stud spacing = 600mm)	3.4kN/m	Min 460mm panel width
SYSTEM 5 (Short wall) - Hardboard Type E (AS 1684.2)	Shortwall with anchor rods (max stud spacing = 600mm)	6.0kN/m	Min 460mm panel width

## PRODUCT DETAILS

Size Specifications			
Thickness	Length (mm)	Width (mm)	Pack QTY
4.8mm	2440	900	80
4.8mm	2440	1200	80
4.8mm	2745	900	80
4.8mm	2745	1200	80
4.8mm	3050	900	80
4.8mm	3050	1200	80

## PRODUCT MARKINGS (TEMPLATE)

BRACING MARKINGS (per board)



Structural Bracing 4.8mm Tempered Hardboard FSC - C108473  
Compliant to AS 1684.4 - 2010 (RTFC) and AS 1859.4 - 2004

[www.evowood.co.za](http://www.evowood.co.za)

Man Date Code

## INSTALLATION

EvoWood Bracing Board should be installed vertically with sheet ends fixed at the top and bottom plates. Support the vertical edges over studs and allow a 2mm gap between sheets and raise the sheets 2mm from the floor. Fix sheets with 30mm x 2.8mm galvanised or corrosion resistant flat head nails or their stipulated gun driven equivalent. Please note that the fastener head should not be driven into the sheet.

For optimum equalisation, allow panels to equalise on site for 48 hours prior to installation.

## STORAGE AND CARE

In order to keep EvoWood products in good condition and ensure maximum durability and effectiveness, correct care and storage is essential.

All EvoWood Bracing Board products should be stored under cover, away from rain and direct sunlight, but not necessarily in a fully enclosed building. In addition, boards should be protected against excessive humidity to prevent warping. Unused boards should be stored flat, allowing for sufficient support with no sagging between bearers.

Boards that have warped due to uneven moisture uptake can be flattened by wetting the rough side of the board and storing flat (and weighted if necessary) for several days.

## RESPONSIBLE MANUFACTURING

EvoWood Bracing Board is certified by the Forest Stewardship Council (FSC) as FSC Mix. This certification indicates that the wood used to manufacture our hardboard products come from a forest that has been independently evaluated as well being well managed according to strict environmental and social standards.

## TERMITE RESISTANCE

It is well known that due to the hardwood species being pressurised under heat and steam (fibrilization process) to form the hardboard, the cellulose is basically eliminated (hence the component for termite attraction). The added 'tempering' process (linseed oil) provides extra density for strength and durability.

EvoWood Hardboard is also recognised by International Customs Authorities as NOT requiring the fumigation process when exporting or importing. It is regarded as 'Termite Free' and of Termite Resistance. We are not claiming that it is Termite Proof.

We also recommend that the Bracing Board is applied above ground.



The mark of  
responsible forestry  
FSC® C108473



SABS  
ISO 9001



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