EVOLUTION FOREST PRODUCTS

OSB 3
Bracing Board

OSB 3 Bracing

OSB 3 Bracing is a structural bracing panel manufactured from oriented strand board, to standard EN300:2006 for structural load bearing.

These bracing panels are engineered for consistent, predictable performance, under load. A practical alternative to plywood or hardboard bracing panels, OSB bracing delivers dimensional stability, a high moisture tolerance, is lightweight, easy to handle; to cut, drill, nail and screw.

OSB 3 Bracing is an engineered wood panel that's sustainably sourced from plantation timbers with FSC certified panels available on request. Designed with strength and durability in mind, this bracing system is also available as an H2 option, treated to standard AS/NZS1604.1.

Performance Attributes

Designed for performance, OSB panels are manufactured with overlapping strands that optimise strength and dimensional stability, to withstand heavy loads. The cross directional structure of each panel creates a highly durable, lightweight panel that's easy to handle.

As an engineered wood product the consistent structural properties of OSB bracing resists splitting and delamination, while increasing the shear strength for easy fixing. An E0 panel with a high moisture tolerance and a painted edge profile to minimise swelling, OSB bracing is well suited to Australian conditions.

Tested to comply with the performance requirements of the National Construction Code, incorporating the Building Code of Australia. OSB bracing offers a bracing capacity that meets or exceeds the standards outlined in Table 8 of AS1684.2:2021 for residential timber framed construction. With two simple bracing systems available, the 6.0mm thick panels deliver a racking resistance of up to 6.0kN/m. These capacities are based on fixing to minimum JD5 framing. With a short wall bracing solution also available for limited wall space applications.

To compliment a fully termite treated framing package for Australian conditions, select the H2 treated option.

Sheet Sizes (mm)		
Length	**Width**	**Thickness**
2440	900	6.0mm
2440	1200	6.0mm
2745	900	6.0mm
2745	1200	6.0mm
3050	900	6.0mm
3050	1200	6.0mm

Treatment Level H2

Bond Strength A bond, E0

PerforMark

TPAA

FSC

Applications

OSB 3 Bracing is available in two different bracing systems. Types A & C of Evolution Forest Products' OSB bracing can be used as a substitute bracing product for the corresponding plywood or hardwood bracing panels, when designed in accordance with AS1684:2021, the Australian Standard for residential timber-framed construction.

The table below outlines the bracing substitution options as specified in Table 8 of AS1684:2021, based on fixing to minimum JD5 framing.

Sheet Bracing Options As Specified in AS 1684.2-2021			**OSB 3 Bracing substitution**	
Type	**AS 1684 Reference**	**JD5 Capacity** (kN/m)	**Type**	**JD5 Capacity** (kN/m)
Plywood	Table 8.18(g)	3.0	Type A	3.4
Hardboard Type A	Table 8.18(l)	2.9		
Plywood	Table 8.18(h) Method B	5.2	Type C	6.0
Hardboard Type B	Table 8.18(m)	5.0		

Notes: (1) The above design capacities are based on wall heights up to 2.7m. For higher walls, reduce capacities by a factor = 2.7/wall height.
(2) Substitution of OSB 3 Bracing relates to 900mm or greater panel lengths.

Fastener Specification

For the OSB 3 Bracing systems outlined, 2.8mm diameter x 30mm flathead galvanized or corrosion resistant nails, or their gun-driven equivalent are specified according to AS1684:2021. Fastener distances along the edge of top and bottom plates, and edge studs (refer drawings on page 4) should be a minimum of 15mm, and 8mm where panels are fixed to internal framing.

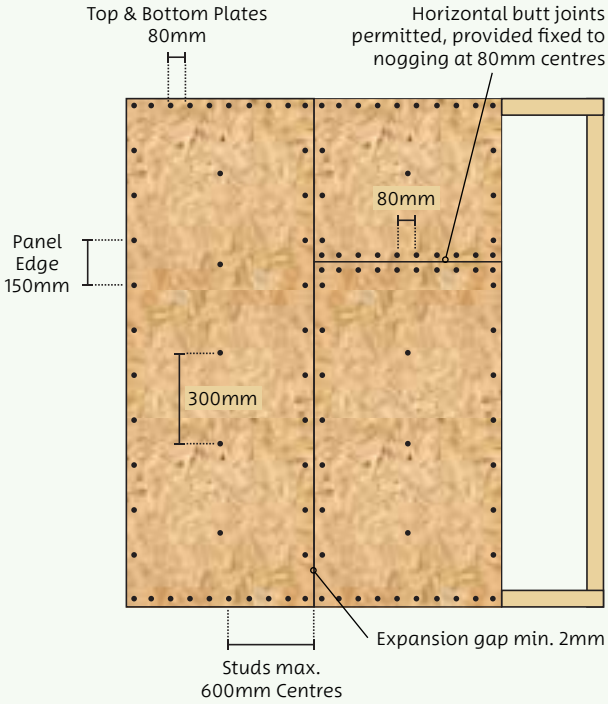
Installation

OSB 3 Bracing Types A and C

Refer to Evolution Forest Products' OSB 3 Bracing Product Technical Statements for more information.

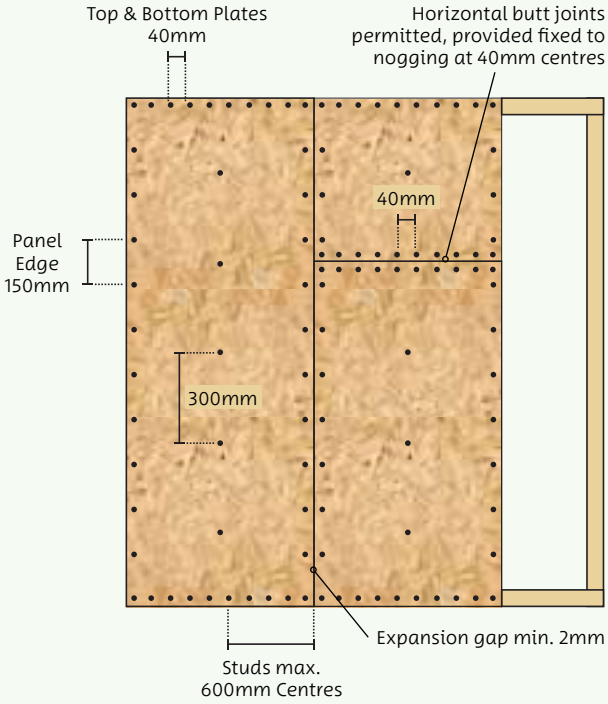
Type A: System 3.4kN/m

- Fastener centres:
  80mm for top & bottom plates
  150mm for vertical edges
  300mm for intermediate studs
- Minimum bracing section of 900mm
- 2mm expansion gap around perimeter of each panel
- For panel width of 600mm, bracing capacity shall be half that for 900mm option
- For panel length between 600mm to 900mm, bracing capacity can be calculated by multiplying the respective capacities. By 0.5 for 600mm long, varying linearly to 1.0 for 900mm



Type C: System 6.0kN/m

- Fastener centres:
  40mm for top & bottom plates
  150mm for vertical edges
  300mm for intermediate studs
- Minimum bracing section of 900mm
- 2mm expansion gap around perimeter of each panel



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