

OS'Brace® SUBSTITUTION

This certification relates to Egger OS'Brace® supplied through Meyer Timber.

We confirm that OS'Brace® Types 1 and 3 systems can be substituted in place of the corresponding plywood or hardboard bracing panels, as specified in Table 1, when designed in accordance with Residential timber-framed construction code, AS 1684.2 -2021.

We also confirm that design capacities of OS'Brace® systems have been independently certified by Professor Keith Crews of University of Technology (NSW), for use as wall bracing panels.

Sheet bracing Options as specified in AS 1684.2-2021			OS'Brace® substitution	
Type	AS 1684 Reference	JD5 Capacity (kN/m)	Type	JD5 Capacity (kN/m)
Plywood	Table 8.18(g)	3.0	Type 1	3.4
Hardboard Type A	Table 8.18(l)	2.9		
Plywood	Table 8.18(h) Method B	5.2	Type 3	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.

Table 1 – OS'Brace substitution for plywood and hardboard sheet bracing for 900mm or greater panel lengths

Details and fastener specification for OS'Brace® (Types 1 and 3) are given in the next page, extracted from [Egger's OS'Brace brochure](#).

Refer to Product Technical Statements related to [NCC \(Vol 1\)](#) and [NCC \(Vol 2\)](#) for additional information.

Please contact either George Dolezal (0418 835 666) or myself (0409 983 694) if you need further advice regarding this matter.

Regards,



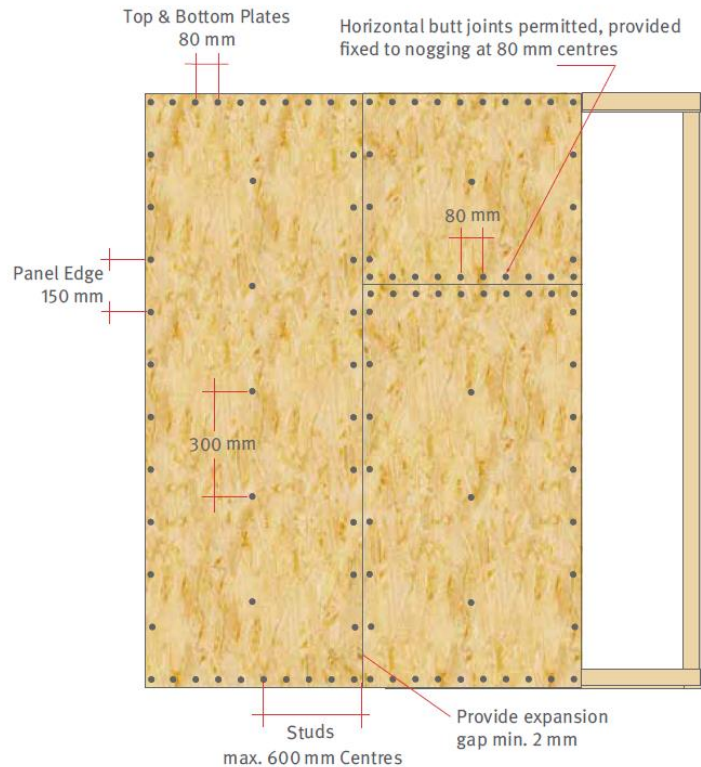
Afzal Laphir, MIEAust, CPEng, NER, APEC Engineer, IntPE(Aus), CMEngNZ, RBP(EC 19289), RPEQ (6033)
 Principal Engineer
 Meyer Timber Pty Ltd

Details of Type 1 and Type 3 EGGER OS'Brace® Systems

(extracted from Egger OS'Brace manual -2018)

Type #1 | System 3.4 kN/m

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



Type #3 | System 6.0 kN/m

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

Fastener Specification for EGGER OS'Brace Systems

For the EGGER OS'Brace® systems detailed in the manual, 2.8 mm diameter x 30 mm flathead galvanised or corrosion resistant nails, or their gun-driven equivalent are specified according to AS 1684. Fastener edge distances along top and bottom plates and edge studs should be a minimum of 15 mm and 8 mm where panels are fixed to internal framing.

