

## OS'Brace<sup>®</sup> SUBSTITUTION

This certification relates to Egger OS'Brace<sup>®</sup> supplied through Meyer Timber.

We confirm that OS'Brace<sup>®</sup> 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 -2010.

We also confirm that design capacities of OS'Brace<sup>®</sup> 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 1684.2-2010			OS'Brace <sup>®</sup> substitution	
Type	Table 8.18 Reference	JD5 Capacity (kN/m)	Type	JD5 Capacity (kN/m)
Plywood	Item (g)	3.0	Type 1	3.4
Hardboard Type A	Item (l)	2.9		
Plywood	Item (h) Method B	5.3	Type 3	6.0
Hardboard Type B	Item (m)	5.0		

**Notes:**

- (1) JD5 capacities for plywood and hardboard are based on a respective 12.5% and 16% reduction from the published values in AS 1684.2-2010, determined in accordance with clause 8.3.6.3 of the code.
- (2) 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<sup>®</sup> (Types 1 and 3) are given in the next page, extracted from the relevant manual from Egger (2018 version).

Refer to *MT Wall Bracing Tie-Down Specification* sheet for information regarding anchorage of bracing panels to concrete slab.

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

Regards,



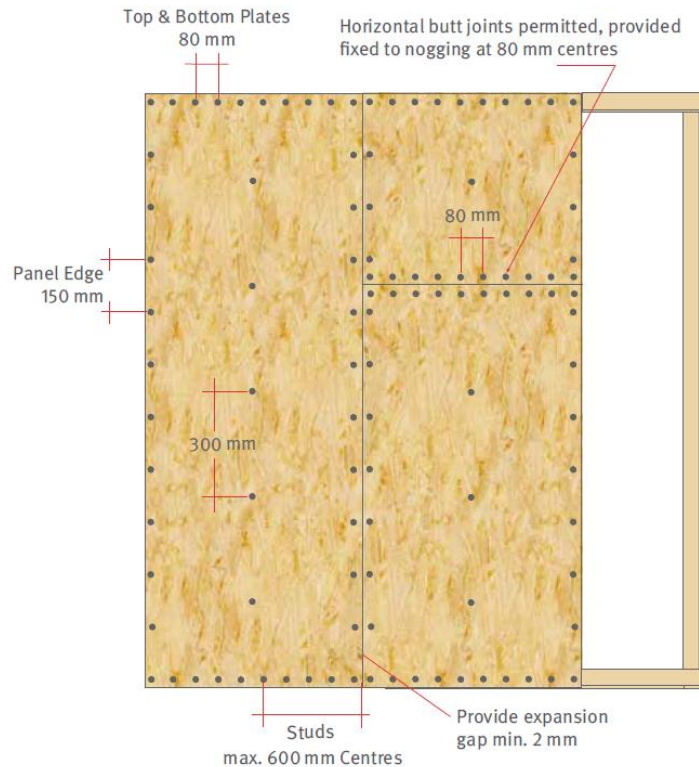
**Afzal Laphir**, MIEAust, CPEng, NER, APEC Engineer, IntPE(Aus), CMEngNZ, RBP(EC 19289), RPEQ (6033)  
Principal Engineer  
Meyer Timber Pty Ltd

## 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.

