

Elephant Plasterboard QuickBrace - Supplement

Elephant Plasterboard QuickBrace™ Systems

Extensive bracing tests have been conducted on Elephant Plasterboard. The bracing ratings published in this document have been obtained by independent testing and opinions sourced from New Zealand organizations with accredited quality assurance.

Detailed in this document are some unique design solutions available to the New Zealand Building Industry to satisfy the bracing requirements of the New Zealand Standard NZS 3604:2011 Timber framed buildings.

This document should be read in conjunction with the Elephant Plasterboard QuickBrace Systems Manual July 2015

Panel End Hold downs-Bracing Anchor Brackets

For systems which require panel end hold downs e.g. ES-H, EM-H, any proprietary panel end hold down bracket with a minimum performance of 15kN can be used. E.g. Pryda® Bracing Anchor or GIB Handibrac® etc.

Fasteners:

Timber framing: 32mm x 6g High thread Drywall screws

Fastener Brands Allowable

Fortress®, Grabber® or Senco®. (Other fastener brands need to demonstrate equal or better performance).

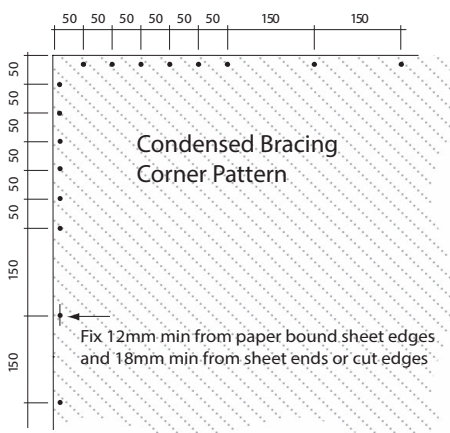
Corner Pattern Layout

The Condensed Bracing Corner Pattern is;

50, 50, 50, 50, 50, 50 and thereafter 150 from each corner

This applies to all QuickBrace™ Systems.

Refer to the Condensed Bracing Corner Pattern below.

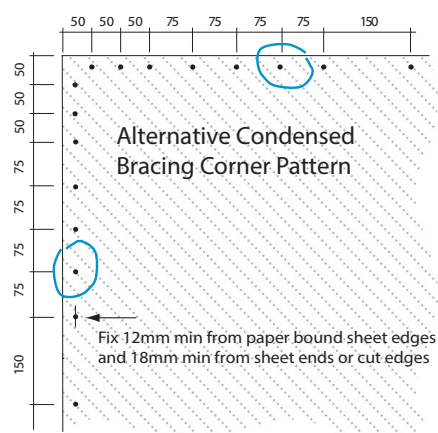


Alternative Corner Pattern Layout

If the installer has used the 50, 50, 50, 75, 75 and thereafter 150 corner pattern then this can easily be remedied by simply placing an extra screw between the next 150mm (where possible).

Therefore 50, 50, 50, 75, 75, 75, 75 and thereafter 150.

Refer to the Alternative Condensed Bracing Corner Pattern below.



Independently Appraised

All tests, opinions and re-evaluated performances have been fully Appraised by Independent Consulting Engineers.

Compliance to NZS 3604:2011

The QuickBrace™ Systems detailed in this document are fully compliant to the requirements of NZS 3604:2011 Timber-framed buildings. Design and installation must be in accordance with the Elephant Plasterboard QuickBrace Systems Manual July 2015.

Elephant Plasterboard Product Name Update

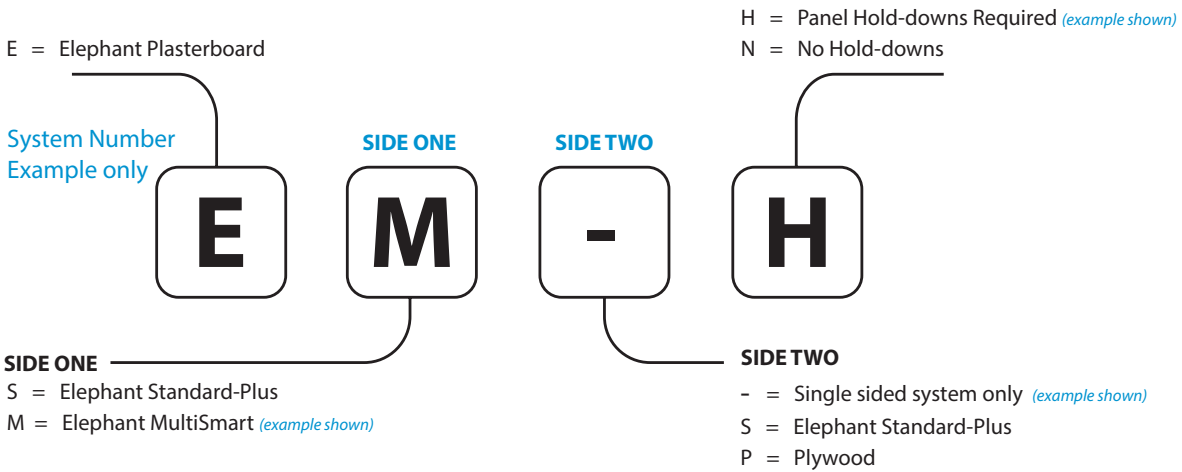
We have introduced a name change for our plasterboard range

- 10 & 13mm Multiboard is now called 10 & 13mm MultiSmart
- 10 & 13mm Aquaboard is now 10 & 13mm AquaSmart
- 16mm Multiboard is now 16mm FireSmart

The performance characteristics of these products are unchanged

Further Smart board products will be introduced soon

QuickBrace™ Numbering System



QuickBrace™ Systems & Performance Table

System Number	Lining Requirement	Min. Length (m)	BU/m		Panel Hold-downs	Bracing Corner Pattern
			Wind	Earth-quake		
Plasterboard on One Side						
ES-N	Elephant Standard-Plus on One Side	0.4	65	60	No	Condensed
		1.2	70	65		
		1.8	80	65		
ES-H	Elephant Standard-Plus on One Side	0.4	80	75	Yes	
		0.8	100	85		
		1.8	115	85		
EM-H	Elephant MultiSmart on One Side	0.4	95	100	Yes	
		0.8	120	110		
		1.2	140	115		
Plasterboard on Both Sides						
ESSN	Elephant Standard-Plus on Both Sides	0.4	80	75	No	
		0.8	90	80		
		1.2	95	85		
ESSH	Elephant Standard-Plus on Both Sides	0.4	95	110	Yes	
		0.8	140	130		
		1.2	150	140		
EMSH	Elephant MultiSmart on One Side Elephant Standard-Plus on the Other	0.4	110	115	Yes	
		0.8	140	135		
		1.2	150	145		
Plasterboard One Side, Plywood the Other						
ESPH	Elephant Standard-Plus on One Side Plywood on the Other	0.4	100	115	Yes	
		0.8	140	140		
		1.2	150	150		
EMPH	Elephant MultiSmart on One Side Plywood on the Other	0.4	120	135	Yes	
		0.8	140	145		
		1.2	150	150		

* Timber Floors - It is required by NZS 3604:2011 to limit BU ratings to 120 BU/m for timber floors. For a higher floor frame uplift, a specifically engineered design will be required.

Note- The QuickBrace™ Numbering System and the sub components thereof are protected by copyright.