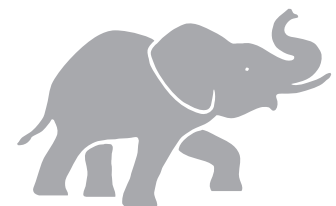


New Innovative Elephant QuickBrace® Systems

Key Features:

- No more Bracing Nails or Bracing Screws
- Quicker and Easier to Install
- Lower Cost Solutions
- Increased Performances
- All Internal & External Wall Elements start at 400mm wide
- A Revised and more Logical Numbering System



Elephant

Plasterboard

STRENGTH WITH STYLE



Elephant QuickBrace® Systems

Elephant Plasterboard (NZ) Limited is pleased to announce the introduction of New and Innovative Bracing Systems.

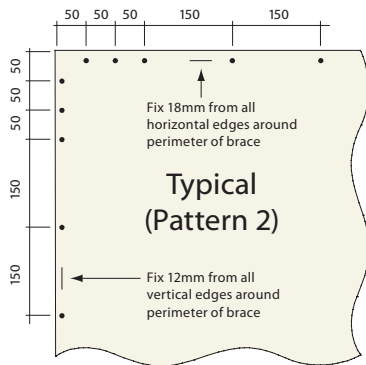
After extensive research, new systems have been developed that will allow designers, engineers, building officials and builders to utilise innovative bracing solutions that not only perform higher, they will also significantly cut building costs both in materials and installation time.

How did we do it?

We've introduced a new Set of fast and easy Corner Fixing Patterns:

- The Typical Corner Fixing Pattern
- The Condensed Corner Fixing Pattern.

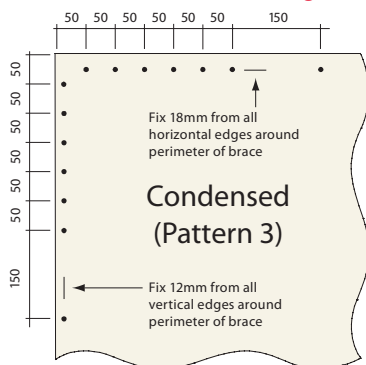
The Typical Corner Fixing Pattern



The most common corner fixing pattern has been referred to in our past literature as Pattern 2. Other plasterboard manufacturer's bracing systems also use Pattern 2. This is the "Typical" corner and perimeter pattern.

NB: The ES, ESa, ESS and ESP systems now also require this Typical Corner Pattern.

The Condensed Corner Fixing Pattern



Bracing System names containing a 'c', E.g. EXSc, EXMSc, EXMca etc. require this slightly more condensed corner pattern on at least one side.

NB:

- The perimeter spacing is the same as with Pattern 2, i.e. 150mm centres.
- Contact Elephant Plasterboard for conditions on using clouts.

The Benefits

No more Bracing Nails or Bracing Screws

The single most beneficial result is that all Elephant Plasterboard QuickBrace® Systems no longer require "Bracing Nails or Bracing Screws" (large head fixings). All bracing systems now only require the use of small head fixings.

This has a number of benefits over Bracing Nails and Bracing Screws;

- The small head fixings are about 60% lower in cost.
- The small head fixings are usually 3 times faster to drive in.
- This results in some cases over \$3.00 per sqm saving.

Not only that, Bracing Nails and Bracing Screws often make a mess, break the paper or stick out proud. All of which make it difficult for the plasterer to get a top quality finish.

Increased Performance

The new Set of Corner Fixing Patterns have resulted in significant increases in bracing performance.

- Reducing the need for higher cost boards like Multiboard
- Reducing the overall number of Bracing Elements required

All Elements can start at 400mm wide

All bracing elements can start at 400mm wide on both internal and external walls, giving the designer or engineer full flexibility.

Current 2008 Systems

The current 2008 Elephant Plasterboard Bracing Systems remain valid.

If a current 2008 'EM' system set (Large Head Fixings, Pattern 2) has been specified, this can be changed to an 'EXMc' system set (Small Head Fixings, Pattern 3), as it outperforms the 'EM' system set.

All other aspects of our bracing systems, including the fixing of the Plywood, remain the same and are as per the current manual Elephant Plasterboard Bracing Systems April 2008. A new technical manual is being produced which will detail more features of these innovative solutions.

Elephant QuickBrace® Software

We strongly recommend the use of the Elephant QuickBrace® Software. This will often provide higher bracing performance than those published in the table overleaf. The Software can be downloaded from our web site: www.elephantplasterboard.co.nz or you can request a copy by phoning: 0800 ELEPHANT (353 742)



The Elephant QuickBrace® Numbering System

The Elephant QuickBrace® Numbering System has also been revised and made more logical and easier to understand for designers, engineers, building officials, and builders.

E	= Elephant Plasterboard Systems	13	= 13mm Plasterboard
X	= Panel Hold Downs and Small Head fixings	c	= Condensed Pattern (3, instead of "Typical" Pattern 2)
S	= Standard Plasterboard one side	a	= Angle Brace
SS	= Standard Plasterboard both sides	d	= Double Strap or Double Bottom Plate
SP	= Standard Plasterboard one side, Plywood the other		
M	= Multiboard one side		
MS	= Multiboard one side, Standard Plasterboard the other		
MP	= Multiboard one side, Plywood the other		

NB: The Elephant QuickBrace® Numbering System and the sub components thereof are protected by copyright.

The New Range of Elephant Plasterboard Bracing Design Solutions		Status:	See Notes:
10mm Plasterboard Systems using Typical Corner Pattern			
ES	= Elephant Standard Plasterboard one side.	Existing	1
ESa	= Elephant Standard Plasterboard one side plus angle brace.	Existing	1
ESS	= Elephant Standard Plasterboard both sides.	Existing	1
ESP	= Elephant Standard Plasterboard one side, Plywood the other side.	Existing	1
EXS	= Elephant Standard Plasterboard one side, with panel hold downs.	Existing	
EXSa	= Elephant Standard Plasterboard one side, with panel hold downs plus angle brace.	Existing	
EXSS	= Elephant Standard Plasterboard both sides, with panel hold downs.	Existing	
EXSP	= Elephant Standard Plasterboard one side, Plywood the other side, with panel hold downs.	Existing	
10mm Plasterboard Systems using Condensed Corner Pattern "c"			
EXSc	= Elephant Standard Plasterboard one side, with panel hold downs.	New	
EXSca	= Elephant Standard Plasterboard one side, with panel hold downs plus angle brace.	New	
EXSSc	= Elephant Standard Plasterboard both sides, with panel hold downs.	New	
EXSPc	= Elephant Standard Plasterboard one side, Plywood the other side, with panel hold downs.	New	
EXMc	= Elephant Multiboard one side, with panel hold downs.	New	2
EXMca	= Elephant Multiboard one side, with panel hold downs plus angle brace.	New	2
EXMSc	= Elephant Multiboard one side, Standard Plasterboard the other side, with panel hold downs.	New	2
EXMPc	= Elephant Multiboard one side, Plywood the other side, with panel hold downs.	New	2
EXMcd	= Elephant Multiboard one side, with either panel hold downs and double bottom plate, or double strap.	New	2
13mm Plasterboard Systems:			
Same as above, but codes have a "13" after the board type to indicate thickness:			
E.g. ES13, ES13a ESS13, ESP13, EXS13c, EXS13ca, EXSS13c, EXSP13c.			
Further:			
EXS13	= 13mm Elephant Standard Plasterboard one side, with panel hold downs.	Was "E13S"	3
EXS13a	= 13mm Elephant Standard Plasterboard one side, with panel hold downs plus angle brace.	Was "E13Sa"	3
EXSS13	= 13mm Elephant Standard Plasterboard both sides, with panel hold downs.	Was "E13SS"	3
EXSP13	= 13mm Elephant Standard Plasterboard one side, Plywood the other side, with panel hold downs.	Was "E13SP"	3
EXM13c	= 13mm Elephant Multiboard one side, with panel hold downs.	New	2
EXM13ca	= 13mm Elephant Multiboard one side, with panel hold downs plus angle brace.	New	2
EXMS13c	= 13mm Elephant Multiboard one side, Standard Plasterboard the other side, with panel hold downs.	New	2
EXMP13c	= 13mm Elephant Multiboard one side, Plywood the other side, with panel hold downs.	New	2

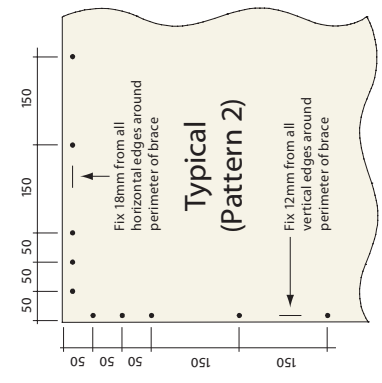
Notes:

1. The 'ES' system set formerly required Corner Pattern 1, now requires 'Typical' Corner Pattern 2.
2. The new set of 'EXMc' and 'EXM13c' Multiboard systems that use Small Head fixings and 'Condensed' Corner Pattern 3, replace and outperform the current 2008 set of 'EM' and 'EM13' Multiboard systems that used Large Head Fixings and 'Typical' Corner Pattern 2.
3. These 13mm Systems were previously called E13S, E13Sa, E13SS, and E13SP respectively. They now contain an "X" in the code to clarify that panel hold downs are required.

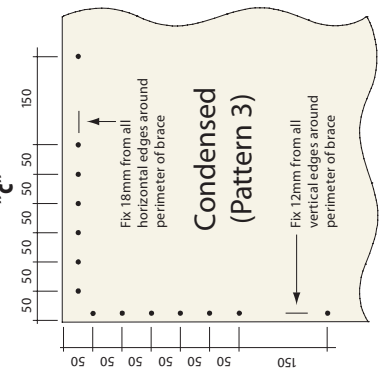
10mm Elephant Plasterboard QuickBrace® 2010 Systems BU/m Ratings

Wall Type	10mm Standard Plasterboard "S"						10mm Standard Plasterboard "X"						10mm Multiboard "M"					
	NO Hold Downs, Small Head Fixings			Hold Downs and Small Head Fixings			NO Hold Downs, Small Head Fixings			Hold Downs and Small Head Fixings			NO Hold Downs, Small Head Fixings			Hold Downs and Small Head Fixings		
	System Name	Min. Length (m)	Wind BUs/m	EQ BUs/m	System Name	Min. Length (m)	Wind BUs/m	EQ BUs/m	System Name	Min. Length (m)	Wind BUs/m	EQ BUs/m	System Name	Min. Length (m)	Wind BUs/m	EQ BUs/m		
External or Internal walls. Plasterboard one side.	ES	0.4	80	75	EXS	0.4	95	85	EXSc	0.4	100	90	EXMc	0.4	115	120		
		1.8	85	70		0.5	105	95		0.5	130	125						
	ESa	1.8	95	75	EXSSa	1.8	120	100	EXMcd	0.4 to <0.45	125	125	EXMca	1.8	150	140		
		0.4	85	75		0.4	115	120		0.4	125	130						
Internal walls. Plasterboard both sides.	ESS	1.2	90	80	EXSSc	0.5	130	125	EXMcc	0.5	135	135	EXMcc*	0.5	145	140		
		1.8	95	80		0.6	145	135		0.6	150	140						
	ESP	2.4	100	80	EXSSpc	0.9	150	140	EXMpc	0.6	150	150	EXMpc	0.6	150	150		
		0.4	85	75		0.4	125	130		0.4	135	140						
External walls. Plasterboard one side, Plywood the other.	ESP	0.5	90	80	EXSPc	0.5	130	135	EXSPc	0.5	135	140	EXSPc	0.5	145	145		
		0.6	100	90		0.6	140	140		0.6	150	150						
		0.9	150	150		0.9	150	150		0.6	150	150						

Typical Corner Pattern



Condensed Corner Pattern



* For Systems requiring plasterboard both sides, the Condensed Corner Pattern is only required on **any** one side, with Typical Corner Pattern the other.

■ = Highest Wind performance at that wall length
■ = Highest E/Q performance at that wall length