

I-Built CMPC Ply Bracing

Bracing Types:

| Brace Code | Brace Type | Min Brace Length | BU's per m (Wind) | BU's per m (EQ) |
|------------|---|------------------|-------------------|-----------------|
| BP1 0.4m | 7mm CMPC Ply 1 Side + Hold down brackets | 0.4m | 84 | 99 |
| BP1 0.6m | 7mm CMPC Ply 1 Side + Hold down brackets | 0.6m | 104 | 114 |
| BP1 1.2m | 7mm CMPC Ply 1 Side + Hold down brackets | 1.2m | 134* | 141* |
| BPG 0.4m | 7mm CMPC Ply 1 Side with 10mm Gib® Standard plasterboard lining other side + Hold down brackets | 0.4m | 89 | 100 |
| BPG 0.6m | 7mm CMPC Ply 1 Side with 10mm Gib® Standard plasterboard lining other side + Hold down brackets | 0.6m | 117 | 136* |
| BPG 1.2m | 7mm CMPC Ply 1 Side with 10mm Gib® Standard plasterboard lining other side + Hold down brackets | 1.2m | 182* | 177* |

* Note: Bracing Panels must not exceed 120 BU/m when used on a timber framed floor or 150 BU/m when on a concrete floor slab without specific design as per NZS3604:2011 Section 5.4.2.

These bracing values can also be applied to any F8 Structural CMPC Ply panel with a minimum thickness of 7mm

Bracing Panel fixing notes:

- Ply bracing elements are to be fixed into min 90 x 45 SG8 framing with maximum centres of 600mm and that complies with NZS3604:2011 and the New Zealand Building Code.
- Ply bracing elements must meet NZBC B2 Durability requirements and should be treated to H3.2 (CCA) when used in high moisture areas or used externally. Untreated Ply bracing can be used in interior bracing applications.
- Sheets should be fixed using 50mm x 2.8mm Galvanised flat head nails for direct fixing to framing. Fixings to match GIB nailing pattern. I.e. 50,50,50,75,75mm to corners then 150mm crs around the perimeter of the element, 300mm centres through the centre. Use 60mm x 2.8mm flat head nails when fixing over cavity battens. Screw fixings are not to be used.
- Minimum of Hot dipped galvanised nails are to be used when in contact with H3.2 CCA treated timber. In some instances, stainless steel fixings may be required depending on the situation or exposure zone. When stainless steel fixings are used they must be annular grooved.
- GIB Handibrac® hold-down fixings must be installed in accordance with the manufacturers fixing details for timber or concrete floors to ensure bracing values are achieved. Refer to the installation details.
- A 3mm gap should be allowed for between Ply sheet edges to allow for any expansion in the Ply sheet.

Bracing Units are based on P21 testing conducted by Scion on behalf of New Zealand Wood Products.

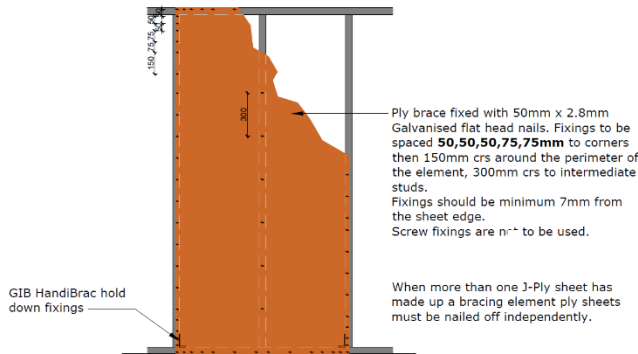
For further information on any of the I-Built™ product range and their performance, please contact the NZWOOD technical team on 0800 022 352

F8 Structural Plywood

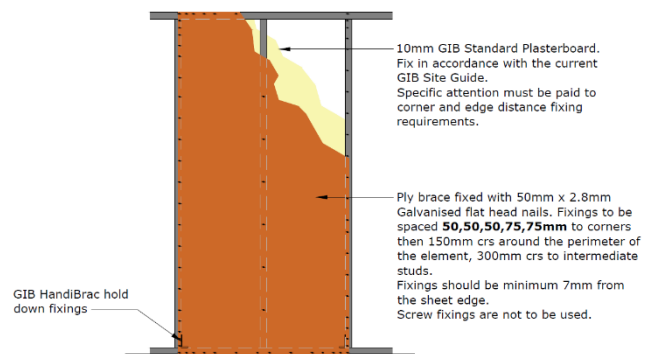
IBuilt's CMPC Structural Plywood is manufactured in accordance with AS/NZS 2269:2012 Structural Plywood. This guide outlines how to use structural Ply in bracing applications and provides fixing requirements and installation guidelines. It is important to consult the New Zealand Building Code (NZBC) and either contact NZWOOD for detailed engineering questions or consult your engineer or local council.

All IBuilt Structural Ply is independently certified by the SGS. In addition, IBuilt's CMPC has chain of custody certification which provides assurance that the plywood is produced from well managed forests and other responsible sources. Chain of custody certification can assist in gaining green star ratings which can be required for government and educational facilities.

Installation of IBuilt CMPC Ply Bracing

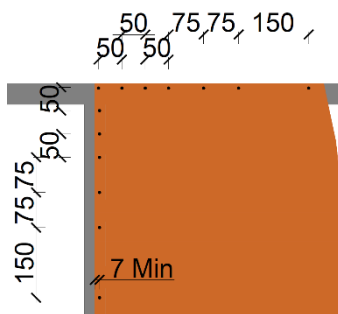


BP1 - CMPC Ply Structural Brace 1 side

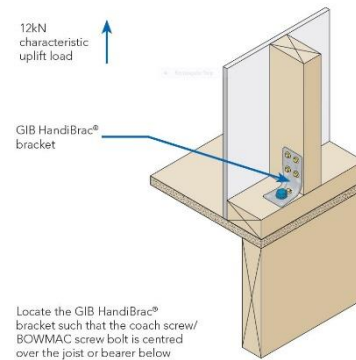


BPG - CMPC Ply Structural Brace 1 side with 10mm GIB Standard Plasterboard Lining other side

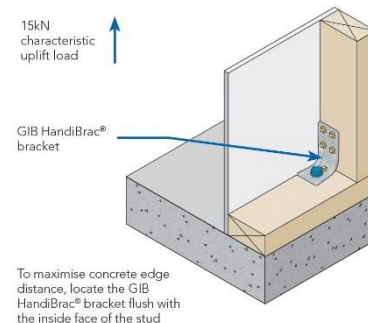
Fixing requirements to corners/edges



GIB HandiBrac® Installation



Timber Floor - External Wall



Concrete Floor - External Wall

GIB® Plasterboard for BPG Brace

GIB® plasterboard when installed as bracing must be installed in accordance with GIB® Bracing System specifications as detailed in the current GIB® Site Guide. Failure to follow GIB® Bracing System specifications could result in the bracing panel not achieving the required bracing resistance.

GIB® sheets may be installed vertically or horizontally, with sheet edges touching, joints stopped and reinforced in accordance with the GIB® Site Guide.

Fixings are to be in accordance with all current installation literature.

All products and relative statements within this document are subject to the applicable products being installed in accordance with information mentioned, and subject to any governing codes of practice. New Zealand Wood Products retains the right to change specifications without notice. Every care has been taken in preparing the information contained within this publication, however, the company cannot accept responsibility for any inaccuracies that may have arisen, and cannot accept liability for loss or damage (either direct or consequential) arising out of or in relation to use or application of the said information.

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