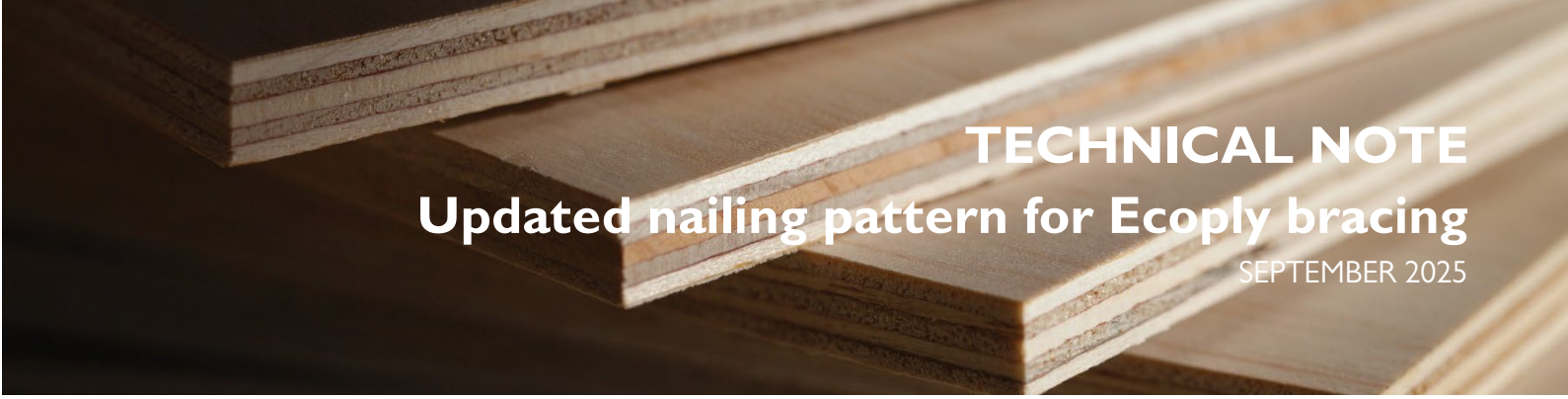


# TECHNICAL NOTE
# Updated nailing pattern for Ecoply bracing

SEPTEMBER 2025

**PRODUCT NAME:** Ecoply Square Edge

## INTRODUCTION:

CHH Plywood (CHH Ply) has recently completed additional P21 (bracing) testing on its range of Ecoply products manufactured or distributed by CHH Ply. As a part of this testing, additional fasteners have been identified as being required at bracing element corners only. This updated fastening pattern is detailed below and required on all Ecoply square edge products supplied to market from September 2025.

All Ecoply products are manufactured from renewable plantation resource and manufactured to the requirements of AS/NZS 2269, Plywood Structural, under a 3rd Party Quality Control program.

This Technical Note provides an updated nailing pattern to suit Ecoply Square Edge products used in bracing applications.

## A WORD ABOUT ECOPLY® BRACING

The Ecoply® bracing systems provide bracing resistance for walls and subfloor foundations for light timber framed buildings under wind and earthquake loading, to meet the requirements of the NZBC - B1 Structure, and NZS 3604 Timber Framed Buildings or specifically designed to NZS 3603 Timber Structures Standard.

Any Ecoply branded structural plywood panel may be used for bracing as long as:

- it is 7mm, 9mm or 12mm thick;
- has a minimum wall length as described in the Ecoply Specification and Installation Guide;
- is treated for the specific application in accordance with NZS 3602; and
- is fixed in accordance with fixing specifications outlined in this Technical Note and Ecoply Specification and Installation Guide.

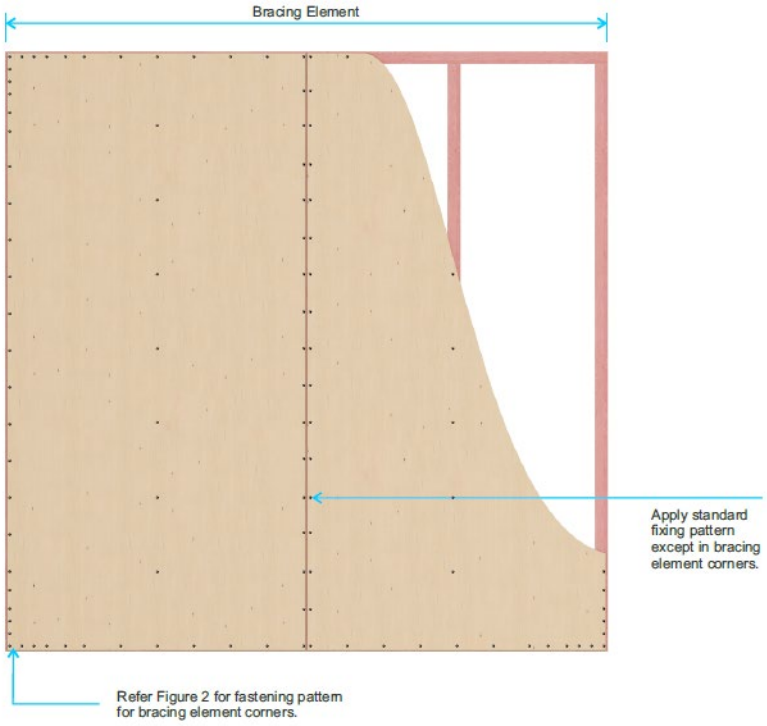
Timber framed buildings to NZS 3604, Timber Framed Buildings, are listed as an Acceptable Solution under Clause 3.0 Timber in Acceptable Solution B1/AS1 Structure. All CHH Ply bracing solutions have been tested using P21 testing methods referenced in NZS 3604.

## SHEET FASTENERS & FIXING

- Allow a 2 to 3mm expansion gap between sheets.
- Fasten with 50x2.8 hot dip galvanized or stainless steel flat head nails for direct fix.
- Power driven nails are suitable. Screws cannot be used.
- Fasteners must be at least 7mm from the edge of the sheet and at least 15mm from the bottom of the plywood sheet when used in bracing applications.

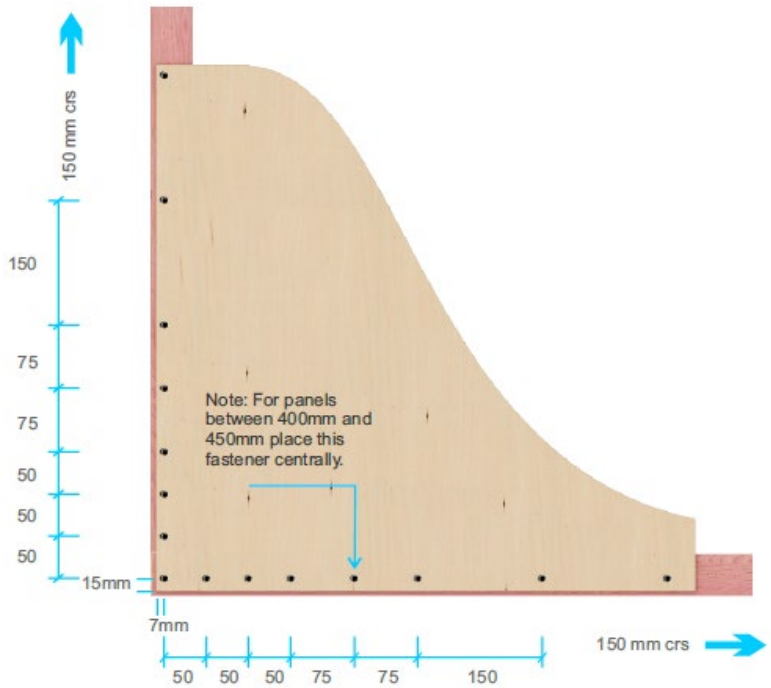
- **Specific Nailing patterns are required at the corners of all bracing elements.** A bracing element is defined by its applied bracing length – Refer Figure 1. Bracing Element Definition.

Figure 1. Bracing Element Definition




- Standard fixing pattern for bracing element corners: unless otherwise specified **fasten edges and ends of sheets at 50, 100, 150, 225, 300mm from the corner nail of the bracing element and a maximum of 150mm thereafter around the perimeter**– refer Figure 2 – Corner Fastener Spacing for Ecoply Bracing Panels.

Figure 2 – Corner Fastener Spacing for Ecoply Bracing Panels.



- General fixing pattern: Apart from corners of bracing elements, spacings shall be at maximum 150mm centres, and within the panel at no more than 300mm centres.
- Use hot dipped galvanised fasteners or corrosion resistant fasteners (i.e. stainless steel) determined by design for specific hazards.
- Where using stainless steel nails, nails must be annular grooved.
- Do not overdrive nails in bracing applications.

## ECOPLY BRACING SPECIFICATIONS AND INSTALLTION

Apart from the additional nailing detailed above, Ecoply square edge must be installed in accordance with good building practice, sound design principles, and the requirements of the "Ecoply Specification & Installation Guide". All other installation requirements remain the same.

## CONCLUSION:

As CHH Ply extends its offer to include product either manufactured or distributed by CHH Ply, additional P21 testing was completed to verify the application of the current specified EP Series of bracing elements. This testing revealed that additional fasteners are required to the corners of all EP Series bracing elements as detailed in Figures 1 and 2.

## REFERENCES:


- NZS 3604:2011 "Timber Framed Buildings"
- NZS 3603:1993 "Timber Structures Standard"
- NZS 3602:2003 "Timber and wood-based products for use in building"
- AS/NZS 2269:0:2012 "Plywood Structural"
- ECOPLY® SPECIFICATION & INSTALLATION GUIDE


## LIMITATIONS:

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