

PRODUCT TECHNICAL STATEMENT & BUILDING PRODUCT INFORMATION SHEET

CLASS I
OCTOBER 2023

Product Name: Ecoply Structural Plywood

Application: Structural Bracing & Ceiling Diaphragms



Product Description and Intended Use:

Ecoply® structural plywood is a layered panel made from New Zealand pine wood veneers manufactured by Carter Holt Harvey Plywood Limited (CHH Plywood) to the requirements of AS/NZS 2269. Adjacent layers (veneers) are bonded together with synthetic phenolic (PF) resin set and cured under heat and pressure in controlled conditions to form a strong and durable Type A bond. The veneers are typically at right angles to each other to deliver two-way strength and stability.

Ecoply structural plywood, specified in accordance with the current “Ecoply Specification & Installation Guide” or subject to specific engineering design, is suitable for use as structural bracing and ceiling diaphragms when:

- Specified in and installed in accordance with Specification Requirements EPI and EPG bracing specification; or
- Installed as a structural ceiling diaphragm in accordance with Section 13, NZS 3604

Ecoply Structural Bracing and Ceiling diaphragms, as specified in Section 3.0 of the “Ecoply Specification & Installation Guide”, are suitable for bracing components in houses and similar buildings within the scope of NZS 3604.

The durability of Ecoply Structural Square Edge used as bracing or ceiling diaphragms in residential applications is subject to the requirements of NZS 3602 Timber and Wood Based Products for use in building (NZS 3602), in accordance with New Zealand Building Code (NZBC) Clause B2 Durability.

Ecoply is available in F8, F8/F5 and F11/F8 stress grades in a range of surface appearance grades including CD and DD and is available untreated, H3.1 LOSP treated and H3.2 CCA treated.

Product Identifier:

All EcoPLY structural plywood sheets are marked in accordance with the requirements of AS/NZS 2269, and include the brand name EcoPLY®. An example of treated plywood is given below, for further information refer to the EcoPLY Specification and Installation Guide.

ECOPLY CD STRUCTURAL
12-24-5 A BOND EO AS/NZS 2269.0:2012
AS/NZS 1604.3:2012 046 01 H3 E H3.2 CCA
RETREAT CUTS PAT 12/12/2023 12:23:45 F8/F8 CHH.COM



Place of manufacture: Tokoroa, New Zealand

Legal and trading name of the manufacturer: Carter Holt Harvey Plywood Limited

Address for Service:

173 Captain Springs Road, Onehunga
Auckland 1061, New Zealand

Website: www.chhply.co.nz

Email Address: info@chhply.co.nz

Phone Number: 0800 326 759

NZBN: 9429046427366

Relevant New Zealand Building Code Clauses:

- Clause B1 Structure: Performance B1.3.1, B1.3.2, B1.3.3(a,c,f,q,h), B1.3.4(d)
- Clause B2 Durability: Performance B2.3.1 (a) when used and treated to the requirements of NZS 3602
- Clause F2 Hazardous Building Materials: F2.3.1

Statement on how the building product is expected to contribute to compliance:

EcoPLY Square Edge, specified as bracing and employed in accordance with Section 3 of the "EcoPLY Specification & Installation Guide", assists in meeting the following provisions of the NZBC:

Clause B1 Structure: Performance B1.3.1, B1.3.2, B1.3.3(a,c,f,q,h), B1.3.4(d)

EcoPLY is product certified by the Engineered Wood Products Association of Australasia (EWPAA) as being manufactured in accordance with the joint New Zealand / Australian Standard AS/NZS 2269, Structural Plywood. The EWPAA is accredited for product certification by the Joint Accreditation System of Australia and New Zealand (JAS -ANZ). Bracing Capacities, determined in accordance with P21 testing methods, are part of an Acceptable Solution of NZS 3604, (Acceptable Solution B1/AS1, 3.1).

Clause B2 Durability: Performance B2.3.1(a) when used and treated to the requirements of NZS 3602

Ecoply structural plywood is manufactured to meet the requirements of the NZBC Clause B2 Durability. As such, if the product is used in accordance with good building practices and treated to the required treatment levels prescribed in NZS 3602, it will form part of an Acceptable Solution complying with the requirements of the NZBC (Acceptable Solution B2/AS1, 3.2.1).

Clause F2 Hazardous Building Materials: F2.3.1

Ecoply structural plywood meets this requirement and will not present a health hazard to people.

Limitations on the use of the building product:

- Ecoply structural plywood, CCA Treated Ecoply plywood must not be installed in direct contact to steel frames.
- Appropriate clearances to ground must be provided to meet durability requirements as detailed by design professionals.
- Please refer to the current “Ecoply Specification & Installation Guide” for information, limitations, and cautions regarding the storage, handling, installation, usage, and maintenance of Ecoply structural plywood.

Design requirements that would support the appropriate use of the building product:

Ecoply structural plywood, designed in accordance with Verification Method B1/VM1 or specified in accordance with Acceptable Solution B1/AS1 is suitable for use as structural bracing panels and diaphragms within structural systems designed and specified by engineers and other suitable design professionals. Ecoply structural plywood is to be installed in accordance with the specifications and details provided by design professionals.

Ecoply structural plywood, specified in accordance with the current “Ecoply Specification & Installation Guide” or subject to specific engineering design, is suitable for use as structural bracing and ceiling diaphragms when:

- Specified in and installed in accordance with Specification Requirements EPI and EPG bracing specification; or
- Installed as a structural ceiling diaphragm in accordance with Section 13, NZS 3604

Ecoply Structural Bracing and Ceiling diaphragms, as specified in Section 3.0 of the “Ecoply Specification & Installation Guide”, are suitable for bracing components in houses and similar buildings within the scope of NZS 3604. Bracing Capacities, determined in accordance with P21 testing methods, are published for use in conjunction with bracing demand determined in accordance with NZS 3604 (P21 tests form part of an Acceptable Solution of NZS 3604, (Acceptable Solution B1/AS1, 3.1)).

Installation requirements:

Ecoply structural plywood must be installed in accordance with good building practice, sound design principles, and in accordance with the specifications and installation details provided within the current “Ecoply Specification & Installation Guide” or by the engineer and/or other qualified design professionals as applicable.

The specifications and details are available at our web site www.chhply.co.nz/librarytools.

Maintenance Requirements:

Ecoply structural plywood components will not normally require maintenance. However, in circumstances where coatings have been applied, maintain in accordance with the coating manufacturer's requirements.

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?

Yes No

Date: 5th October 2023

Additional Information:

Further to the minimum regulatory requirements for Building Product information Sheets, CHH Plywood also provides the following additional information in relation to Quality Assurance, Sustainability, Service Life and Product Support.

Quality Assurance:

CHH Plywood has strict quality assurance processes in place to monitor that Ecoply is manufactured in a manner that meets both the structural and visual requirements of the specific product.

Ecoply is independently third party audited by the EWPA. The EWPA certifies Ecoply manufactured by CHH Plywood at its Tokoroa mill.

Participation and compliance with the requirements of the EWPA's process based quality control scheme includes product testing and monitoring of properties. It provides the basis for the EWPA's Product Certification of Ecoply as conforming to the requirements of AS/NZS 2269.

The EWPA's product certification scheme is accredited under JAS-ANZ.

Sustainability:

Carter Holt Harvey's commitment to the environment is fundamental to its business. From the use of plantation forests to promoting policies minimizing waste and emissions, CHH is proud of the sustainable base for its products.

CHH Plywood uses waste handling procedures to optimise recovery and manage the creation of arisings. This starts with the use of only radiata pine sourced from sustainably managed renewable plantations and includes the application of optimisation algorithms for veneer peeling to enhance finished goods recovery.

CHH Plywood has been actively involved in the development of markets for the use of downgraded arising product for use in industrial applications including packaging whilst peeler cores are often reprocessed for use as bearers. All waste product derived is assessed for downstream applications including bark for landscaping, boiler fuel and/or sold for use in wood fibre products.

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

The CHH Plywood EPD is a demonstration of the continual focus and commitment to sustainability, through a science driven, independently verifiable process with standard methodology across all products.

[View and Download the EPD for Plywood - https://chhply.co.nz/assets/CHHPlyEPDCurrent.pdf](https://chhply.co.nz/assets/CHHPlyEPDCurrent.pdf)

ENVIRONMENT, SOCIAL AND GOVERNANCE (ESG)

Carter Holt Harvey has developed a new ESG reporting programme. The company has focused on setting out what its stakeholders have identified as material ESG issues, how it manages, or plans to manage those issues, and key environmental indicators. In the future, Carter Holt Harvey will celebrate its ESG achievements and acknowledge those areas where it needs to improve, keeping on a path of steady improvement that will further strengthen Carter Holt Harvey in the years to come.

[View and Download the ESG Report -](https://chhply.co.nz/assets/CarterHoltHarveyESGReportCurrent.pdf)

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FSC® AND SUSTAINABILITY ACCREDITATIONS

CHH Plywood sources logs from sustainably managed plantation forests, and has the Forest Stewardship Council® (FSC®) Chain of Custody certification (FSC® C012019). This measure provides a formal assurance that gives CHH Plywood's customers confidence about its sustainability credentials. CHH Plywood's products can be supplied with a FSC certificate on request.

[View and Download Certificate - https://chhply.co.nz/assets/CHHPlyFSCCertificateTokoroaCurrent.pdf](https://chhply.co.nz/assets/CHHPlyFSCCertificateTokoroaCurrent.pdf)

DECLARE LABEL

The CHH Plywood range of untreated products have been issued Declare labels and determined to be Red List Free through the International Living Future Institute, and as such the untreated range can be used in Living Building Challenge.

[View and Download the Declare label for Ecopoly Untreated Structural Plywood -](https://chhply.co.nz/assets/DeclareEcopolyUntreatedStructuralPlywoodCurrent.pdf)

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EWPA FORMALDEHYDE EMISSION CLASSIFICATIONS CERTIFICATE

Formaldehyde Emissions for CHH Plywood products are measured as being less than 0.5 mg/L, classed as E0

[View and Download Certificate](https://chhply.co.nz/assets/Tokoroa-Formaldehyde-Certificate_Nov-2016.pdf)

https://chhply.co.nz/assets/Tokoroa-Formaldehyde-Certificate_Nov-2016.pdf

CARTER HOLT HARVEY ENVIRONMENTALLY RESPONSIBLE WOOD & WOOD FIBRE PROCUREMENT POLICY

[View and Download Policy - https://chhply.co.nz/assets/Uploads/CHH-Environmentally-Responsible-Wood-Wood-Fibre-Policy-Current.pdf](https://chhply.co.nz/assets/Uploads/CHH-Environmentally-Responsible-Wood-Wood-Fibre-Policy-Current.pdf)

Service Life:

Ecopoly Structural Square Edge used as bracing or structural diaphragms to NZS 3604 will continue to satisfy the relevant performance requirements of the NZBC for 50 years (or other time periods as specified by the designer relative to the specific project) provided that all of the requirements set out in this Product Technical Statement and the specific design parameters of the project are satisfied.

Product Support:

CHH Plywood provides extensive product support for our full range of wood-based building products. By visiting www.chhply.co.nz you can access all the latest information regarding our products including Product Guides, Specification and Installation Guides, Technical Notes, Information Bulletins, CAD Drawings, Design Software and other useful information.

In addition to this CHH Plywood have a team of Technical Experts available to assist with any product enquiries. You can contact the team by calling 0800 326 759 or by emailing info@chhply.co.nz.

Legal Disclaimer: The information contained in this document is current as at published date and is based on data available to CHH Plywood at the time of going to print. CHH Plywood reserves the right to change the information contained in this document without prior notice. It is your responsibility to ensure that you have the most up to date information available. You can call toll free on 0800 326 759 or visit www.chhply.co.nz to obtain current information.

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