

PRODUCT TECHNICAL STATEMENT & BUILDING PRODUCT INFORMATION SHEET

CLASS I
OCTOBER 2023

Product Name: Ecoply® Structural Plywood

Application: Roofing

Product Description and Intended Use:



Ecoply® Roofing and Ecoply Structural Square Edge 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: Structural Plywood (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 Roofing specified in roofing applications in accordance with the current "Ecoply Specification & Installation Guide" are suitable for use as a roof decking substrate for flexible membrane and tile systems in roofing. Ecoply Roofing and Ecoply Structural Square Edge as specified with Section 4 of the "Ecoply Specification & Installation Guide" is suitable for use as a roofing sheathing and sub-sheathing subject to loading and spans conditions detailed in Tables 15A and 15B respectively. Ecoply Roofing may be used as a roof diaphragm in bracing applications subject to specific engineering design and detailing.

Ecoply Roofing and Ecoply Structural Square Edge are available in F8/F5 and F11/F8 stress grades in a range of thicknesses and DD finish with tongue and groove long edge. Ecoply roofing products are available untreated and H3.2 treated. The durability of Ecoply plywood products used as roofing is subject to the requirements of New Zealand Building Code (NZBC) Durability Clause B2.

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 H3.2 treated plywood is given below, for further information refer to the Ecoply Specification and Installation Guide:

ECOPLY DD ROOFING STRUCTURAL
15-30-5 A BOND EO AS/NZS 2269.0:2012
AS/NZS1604.3:2012 046 01 H3 E H3.2 CCA RETREAT CUTS 911
PAT 12/12/2023 12:23:45 F11/F8 CHH.COM



911

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,g,h,q), B1.3.4(d)
- Clause B2 Durability: Performance B2.3.1 (a) when used and treated to the requirements of NZS 3602
- Clause E2 External Moisture: Performance E2.3.1, E2.3.2, E2.3.7(c)
- Clause F2 Hazardous Building Materials: F2.3.1

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

Ecoply Roofing and Ecoply Structural Square Edge specified as a roofing substrate and employed in accordance with Section 4 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,g,h,q), B1.3.4(d)

Ecoply Roofing and Ecoply Structural Square Edge 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).

Structural design is in accordance with NZS 3603: Timber Structure Standard (NZS 3603) (verification method BI/VMI, 6.1).

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

Ecoply Roofing and Ecoply Structural Square Edge 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 E2 External Moisture: Performance E2.3.1, E2.3.2, E2.3.7(c)

Ecoply Roofing and Ecoply Structural Square Edge, as a roofing substrate combined with a compliant roof membrane or asphalt shingle roof system, will meet the performance requirements of E2.3.1, E2.3.2, E2.3.7(c)

Clause F2 Hazardous Building Materials: F2.3.1

Ecoply Roofing and Ecoply Structural Square Edge meets this requirement and will not present a health hazard to people.

Limitations on the use of the building product:

- Always refer to the roofing system/membrane supplier's information for installation, plywood selection and surface preparation requirements for specific roofing products.
- CCA Treated Ecoply plywood must not be installed in direct contact to steel frames.
- 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 Roofing and Ecoply Structural Square Edge as specified with Section 4 of the "Ecoply Specification & Installation Guide" is suitable for use as a roofing sheathing and sub-sheathing subject to loading and spans conditions detailed in Tables 15A and 15B respectively.

Ecoply Roofing Span Tables within Section 4 of the Ecoply Specification and Installation Guide have had design completed in accordance with NZS 3603 (verification method B1/VMI, 6.1). Serviceability and other criteria were selected using guidelines available from joint Australian / New Zealand standards technical committees as applicable.

Ecoply Roofing may be used as a roof diaphragm in bracing applications subject to specific engineering design and detailing.

Installation requirements:

Ecoply Roofing and Ecoply Structural Square Edge used as a roofing substrate must be installed in accordance with good building practice, sound design principles, and the requirements of Section 4.0 of the "Ecoply Specification & Installation Guide" or details provided by a Certified Practicing Engineer. **Always refer to the roofing system/membrane supplier for installation, plywood selection and surface preparation requirements for specific roofing products.**

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

Maintenance Requirements:

Ecoply Roofing and Ecoply Structural Square Edge will not normally require maintenance as the substrate of a roofing system. However membranes have been applied, maintain in accordance with the 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 ESG Report - https://chhply.co.nz/assets/CarterHoltHarveyESGReportCurrent.pdf](https://chhply.co.nz/assets/CarterHoltHarveyESGReportCurrent.pdf)

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 Ecoply Untreated Structural Plywood - https://chhply.co.nz/assets/DeclareEcoplyUntreatedStructuralPlywoodCurrent.pdf](https://chhply.co.nz/assets/DeclareEcoplyUntreatedStructuralPlywoodCurrent.pdf)

EWPAA 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:

Ecoply Roofing and Ecoply Structural Square Edge 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. CHH Plywood has used all reasonable endeavours to ensure the accuracy and reliability of the information contained in this document. However, to the maximum extent permitted by law, CHH Plywood assumes no responsibility or liability for any inaccuracies, omissions or errors in this information nor for any actions taken in reliance on this information.