

# PRODUCT TECHNICAL STATEMENT & BUILDING PRODUCT INFORMATION SHEET

CLASS I  
OCTOBER 2023

**Product Name:** Ecoply Flooring and Structural Square Edge

**Application:** Membrane Decks



**Product Description and Intended Use:**

Ecoply® Flooring plywood is a layered panel made from New Zealand pine wood veneers manufactured by Carter Holt Harvey Plywood Limited (CHH Ply) 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 Flooring and Ecoply Structural Square Edge, specified in decking applications in accordance with the "Ecoply Specification & Installation Guide" is suitable for use as a decking substrate as a flexible membrane used in decking applications. These products are more suitable for substrate for flexible coverings requiring a smooth substrate and where avoidance of visible surface indentations is critical.

Ecoply Flooring and Ecoply Structural Square Edge, as specified with Section 4 of the current "Ecoply Specification & Installation Guide" are suitable for use as decking subject to loading and span conditions detailed in Table 15C. These products may be used as a floor diaphragm in bracing applications subject to specific engineering design and detailing.

Ecoply flooring and Structural Square Edge is available in F8/F5 and F11/F8 stress grades in a range of thicknesses and CD finish. Ecoply flooring and Structural Square Edge products are available H3.2 treated for use in membrane deck applications. The durability of Ecoply plywood products used as flooring in membrane decks 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 CCA treated plywood is given below, for further information refer to the Ecoply Specification and Installation Guide.

ECOPLY CD FLOORING STRUCTURAL  
19-30-7 A BOND EO AS/NZS 2269.0:2012  
AS/NZS 1604.3:2012 046 01 H3 E H3.2 CCA RETREAT CUTS 911  
PAT 12/12/2023 12:23:45 F11/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](http://www.chhply.co.nz)

**Email Address:** [info@chhply.co.nz](mailto: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,b,c,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 E2.3.3, E2.3.4, E2.3.5
- Clause F2 Hazardous Building Materials: F2.3.1

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

Ecoply Structural Square Edge and Ecoply Flooring, specified as a decking substrate when 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,b,c,h,q), B1.3.4(d)**

Ecoply Flooring 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 B1/MM1, 6.1).

**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 E2 External Moisture: Performance E2.3.3, E2.3.4, E2.3.5**

Ecoply Flooring with exterior and ground clearances detailed in Clause 9.1.3 of E2/AS1 and Clause 6.14.5 and Figure 6.21 of NZS 3604 will meet the Performance requirements of E2.3.3, E2.3.4 and E2.3.5 when treated to the requirements of B2.

## Clause F2 Hazardous Building Materials: F2.3.1

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

### Limitations on the use of the building product:

- Ecoply is not recommended as a substrate for exterior decks without a properly detailed barrier material such as butyl rubber, vinyl or E.P.D.M to protect the surface from weathering. Always refer to the decking system supplier for installation, plywood selection and surface preparation requirements for specific decking products.
- Ecoply structural plywood, 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 Flooring and Ecoply Structural Square Edge, specified in decking applications in accordance the “Ecoply Specification & Installation Guide” is suitable for use as a decking substrate as a flexible membrane used in decking applications. These products are more suitable for substrate for flexible coverings requiring a smooth substrate and where avoidance of visible surface indentations is critical.

Ecoply Flooring and Ecoply Structural Square Edge, as specified with Section 4 of the current “Ecoply Specification & Installation Guide” are suitable for use as decking subject to loading and span conditions detailed in Table 15C. These products may be used as a floor diaphragm in bracing applications subject to specific engineering design and detailing.

Ecoply Flooring plywood and Ecoply Structural Square Edge may be used as a diaphragm in bracing applications subject to specific engineering design and detailing.

### Installation requirements:

Ecoply Flooring 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](http://www.chhply.co.nz/librarytools).

### Maintenance Requirements:

Ecoply Flooring components will not normally require maintenance. However, in circumstances where coatings, membranes or claddings 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:** 5<sup>th</sup> 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 an FSC certificate on request.

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

## 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:

Ecoply Flooring 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](http://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](mailto:info@chhply.co.nz).

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