

# PRODUCT TECHNICAL STATEMENT & BUILDING PRODUCT INFORMATION SHEET

CLASS I  
OCTOBER 2023

**Product Name:** Handiply® Carpet Grade Flooring

**Application:** Flooring



**Product Description and Intended Use:**

Handiply® Carpet Grade Flooring Structural plywood (Handiply Carpet Grade) 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). The 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. Adjacent layers (veneers) are typically at right angles to each other to deliver two-way strength and stability.

Handiply Carpet Grade contains a second void free layer under the surface veneer. This creates increased protection against moisture bubbles, and punch through of the first veneer under high point loads compared to normal structural plywood.

Handiply Carpet Grade is a downgraded product that may contain filler and some face imperfections. Handiply Carpet Grade specified in flooring applications in accordance with F1 I/F8 Ecoply plywood in the current "Ecoply Specification & Installation Guide", or subject to specific engineering design, is suitable for use as a flooring substrate for overlays such as carpet and tiles.

Handiply Carpet Grade is available in the same strength, stiffness, and thickness ranges as CD flooring with tongue and groove long edge. Handiply flooring products are available both untreated and H3.2 treated. The durability of Handiply plywood products used as flooring is subject to the requirements of New Zealand Building Code (NZBC) Durability Clause B2.

**Product Identifier:**

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

SECONDS HANDIPLY CD CARPET GRADE STRUCTURAL  
19-30-7 A BOND EO AS/NZS 2269.0:2012  
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](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,f,h,j,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:**

Handiply Carpet Grade, specified as an alternative to CD Ecoply flooring and used in accordance with Section 5 of the current "Ecoply Specification & Installation Guide", assists in meeting the following provisions of the NZBC: 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,f,h,j,q), B1.3.4(d)**

Handiply Carpet Grade 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/VM1, 6.1).

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

Handiply Carpet Grade 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**

Handiply Carpet Grade 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

HandiPLY Carpet Grade meets this requirement and will not present a health hazard to people.

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

- HandiPLY Carpet Grade Plywood, CCA Treated HandiPLY plywood must not be installed in direct contact to steel frames.
- HandiPLY Carpet Grade Plywood is not suitable for use with membrane floors and decks or where the product is left exposed for a visual application.
- 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 HandiPLY structural plywood.

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

HandiPLY Carpet Grade plywood can be directly substituted for Ecoply plywood of the same thickness, stress grade and construction, specified in flooring applications in accordance with the current “Ecoply Specification & Installation Guide”, or subject to specific engineering design, is suitable for use as a flooring substrate with flexible or rigid overlays. HandiPLY Carpet Grade plywood is suitable as a substrate for overlays such as carpet, tiles and some membrane products (refer to overlay flooring manufacturer).

Ecoply Flooring Span Tables within Section 5 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.

HandiPLY Carpet Grade plywood may be used as a floor diaphragm in bracing applications subject to specific engineering design and detailing.

### Installation requirements:

HandiPLY Carpet Grade must be installed in accordance with good building practice, sound design principles, and the requirements of Section 5.0 of the current “Ecoply Specification & Installation Guide” or details provided by a Certified Practising Engineer.

The specifications and details are available at our web site [www.chhply.co.nz/librarytools](http://www.chhply.co.nz/librarytools).

## Maintenance Requirements:

HandiPLY Carpet Grade 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 HandiPLY is manufactured in a manner that meets both the structural and visual requirements of the specific product.

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

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

The EWPAA'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](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)

## 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:

Handiply Carpet Grade 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).

**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](http://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.