

**Product Name:** CARTERS Cassette Solutions



**Product line:**

CARTERS cassette solutions include hyJOIST, hy90, hySPAN, hyONE, truFRAME, Ecoply structurally rated plywood products and Laserframe SG8 components as per site specific joist, beam and rafter layouts.

**Product Description and Intended Use:**

CARTERS cassette solutions are an engineered, prefabricated solution provided to site in individual cassette modules for immediate installation. Typically manufactured from hyJOIST floor joists or rafters, CARTERS cassettes also include LVL support beams and Ecoply plywood flooring for an optimized performance-based flooring and/or roofing solution.

Where not subject to specific engineering design, CARTERS cassette solutions are designed and detailed using proprietary software, cassettelTout. Each project is specifically designed based on customer performance requirements, loading and support conditions. Engineered wood products are then detailed and fabricated into cassettes requiring minimal on-site modifications.

**Product Identifier:**

N/A

**Place of manufacture:** New Zealand

**Legal and trading name of the manufacturer:** CARTERS Building Supplies Limited t/a CARTERS

**Address for Service:**

64-68 Harris Road, East Tamaki  
Auckland 2013, New Zealand

**Website:** [www.carters.co.nz](http://www.carters.co.nz)

**Email Address:** [flooringcassettes@carters.co.nz](mailto:flooringcassettes@carters.co.nz)

**Phone Number:** 0800 227 8377

**NZBN:** 9429046427380

### 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)
- Clause E2 External Moisture: E2.3.4
- Clause F2 Hazardous Building Materials: F2.3.1

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

CARTERS cassette solutions will, if installed in accordance with the prescribed span, loading and installation requirements, assist 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)**

Futurebuild LVL and Ecoply plywood products are 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 4357: Structural Laminated Veneer Lumber and the joint New Zealand / Australian Standard AS/NZS 2269, Structural Plywood, respectively. 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 (verification method B1/VM1, 6.1). Serviceability and other criteria were selected using guidelines available from joint Australian / New Zealand standards technical committees and correspond to those used in NZS 3604, (Acceptable Solution B1 / AS1, 4.1).

#### **Clause B2 Durability: Performance B2.3.1(a) when used and treated to the requirements of NZS 3602 and NZS 3604**

CARTERS cassette components are manufactured to meet the requirements of Clause B2 (Durability) of the NZBC. As such, CARTERS cassette solutions will form part of an Acceptable Solution and comply with the requirements of the NZBC (Acceptable Solution B2/AS1, 3.2.1).

#### **Clause C Fire Performance: C1 – C6**

CARTERS cassette modules may be used as part of a fire-resistant solution when used in accordance with GIB® Fire Rated Systems for hyJOIST, and other solid Futurebuild LVL products, that provide passive fire protection in accordance with the requirements of NZBC Clauses C1 - C6 – Protection from Fire. Refer “GIB Fire Rated systems Specification and Installation Manual”.

#### **Clause E2 External Moisture: E2.3.4**

CARTERS cassette modules used in sub-floor applications are provided treated to the requirements of NZS 3602 subject to ventilation and ground cover requirements complying with NZS 3604, Clause 6.14 Prevention of Dampness.

#### **Clause F2 Hazardous Building Materials: F2.3.1**

CARTERS cassette modules meet this requirement and will not present a health hazard to people pursuant to Clause F2.3.1.

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

- The overall structural stability of the building, including resistance to horizontal loads (such as lateral and longitudinal wind and earthquake loading), is assumed to be transferred through the wall framing, wall plate, etc. together with the associated floor diaphragms and bracing, and is subject to specification by others.
- Where applicable, appropriate clearances to ground must be provided to meet durability requirements as per NZBC Acceptable Solution B2/AS1.

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

Where not subject to specific engineering design, CARTERS cassette solutions are designed and detailed using proprietary software, cassettelTout.

The design methodology used in cassettelTout complies with the loading and general design requirements contained within AS/NZS 1170 and with timber structural design in accordance with NZS 3603:1993 including Amendment 4 (Verification method B1/VM1, 6.1).

cassettelTout considers only vertical loads in consideration of member design, where interaction with flooring, joists and other framing elements provide lateral and torsional support. Floor joists and beams/bearers sized using cassettelTout will provide “a system to resist vertical loads” as per NZS 3604 Clause 8.1.1.

**Installation requirements:**

CARTERS cassette solutions must be installed in accordance with good building practice, sound design principles, and in accordance with the specifications and installation details provided within the design documentation and associated plans as applicable.

**Maintenance Requirements:**

CARTERS cassette solutions will not normally require maintenance.

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

Yes  No

**Date:** 31<sup>st</sup> October 2023

**Additional Information**

Further to the minimum regulatory requirements for Building Product information Sheets, CARTERS as part of the Carter Holt Harvey group, also provides the following additional information in relation to Sustainability, Service Life and Product Support.

## **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.

### **ENVIRONMENT, SOCIAL AND GOVERNANCE (ESG)**

Carter Holt Harvey has developed a new Environment, Social and Governance (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 [2023 Carter-Holt-Harvey ESG-Report 19.04.23-1.pdf \(chhply.co.nz\)](#)

### **ENVIRONMENTAL PRODUCT DECLARATION (EPD)**

The CHH range of products used in CARTERS cassette solutions including Futurebuild LVL, Ecoply and Laserframe products have all been independently verified and have had EPDs published. EPDs are 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 [CHH\\_ZP102241-EPD\\_PLY-V1.0-Final.pdf \(chhply.co.nz\)](#)

**View and Download the** EPD for Futurebuild LVL [futurebuild.co.nz/assets/CHH\\_ZP102241-EPD\\_LVL-V1.0-Final.pdf](#)

**View and Download the** EPD for Sawn Timber Products [CHH\\_ZP102241-EPD\\_Timber-Final-V1.1.pdf \(chhwoodproducts.co.nz\)](#)

### **FSC® AND SUSTAINABILITY ACCREDITATIONS**

CHH sources logs from sustainably managed plantation forests, and has the Forest Stewardship Council® (FSC®) Chain of Custody certification for its plywood (FSC® C012019), LVL (FSC® C007103) and sawn timber (FSC® C011498 and FSC® C021357) products. This measure provides a formal assurance that gives CARTERS customers confidence about its sustainability credentials. CARTERS cassettes can be supplied with a FSC certificate on request.

## **Service Life:**

CARTERS cassette solutions will continue to satisfy the relevant performance requirements of the NZBC for 50 years provided that all of the requirements set out in this Building Product Information Sheet and the specific design parameters of the project are satisfied.

## **Product Support:**

CARTERS provides extensive product support for the cassette solutions. Our cassettes are designed using proprietary software packages, supported by practicing engineers. In addition to this CARTERS have a team of Technical Experts available to assist with any cassette enquiries. You can contact the team by calling 0800 227 8377 or by emailing [flooringcassettes@CARTERS.co.nz](mailto:flooringcassettes@CARTERS.co.nz).

**Legal Disclaimer:**

The information contained in this document is current as at published date and is based on data available to CARTERS at the time of going to print.

CARTERS 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 227 8377 or visit [www.carters.co.nz](http://www.carters.co.nz) to obtain current information.

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