

Building Product Information Sheet (BPIR)

Product name	Ecoply® DD21x2400x1200mm F8/F8 Structural H3.2 CCA
Product line	Ecoply® is part of the CHH Ply range
Product identifier	Ecoply® DD21x2400x1200mm F8/F8 Structural H3.2 CCA
Product class	Class 1

Description

Ecoply® DD 21x2400x1200mmx F8/F8 Structural H3.2 CCA

Ecoply® structural plywood panels are manufactured from sustainably grown NZ plantation pine wood veneers. The veneers are placed at right angles to each other for maximum strength and stability then bonded together with resin to form a strong and permanent bond.

Ecoply® plywood is structural-grade plywood with a range of uses throughout the building industry, particularly where known structural characteristics are required, common uses include:

1. bracing, 2. interior lining 3. membrane and roofing substrate 4. noise control.

Ecoply® DD21x2400x1200mm F8/F8 Structural 3.2 CCA sheets are treated and have a low formaldehyde emission rating.

The F8/F8 is a code denoting the strength and stiffness properties of the plywood products and shows that the stress grade in both directions, in this instance, the F8/F8 code means it is the strongest and ideal for structural use.

The surface grade of the Ecoply® plywood, which in this case is DD - describes the front and back veneer appearance. In this case, DD both sides of the ply are left unsanded to give extra strength and a safer grip when installing at a height, such as roofing installation.

Relevant Building Code Clauses

- **B1 Structure** — B1.3.1, B1.3.2, B1.3.3 (f, h, j), B1.3.4
- **B2 Durability** — B2.3.1 (a)
- **F2 Hazardous building materials** — F2.3.1

Contributions to Compliance

Ecoply® DD 21x2400x1200mmx F8/F8 Structural H3.2 CCA:

Compliance with B1 Structure is about whether the product can withstand the forces imposed on it through use.

Ecoply® plywood manufacture is audited through the product quality control programme of the Engineered Wood Products Association of Australasia (EWPAA) which is itself audited by the Joint Accreditation System of Australia and New Zealand (JAS-ANZ).

CHH Plywood is licensed by the EWPAA to stamp plywood with the EWPAA/JAS-ANZ Product Certification Mark. This certifies it has been manufactured under the third party audited Joint Product Certification programme to monitor compliance with joint Australian/New Zealand Standard AS/NZS 2269 Plywood,

Ecoply® plywood meets this standard is referenced in the NZBC Acceptable Solutions and Verification Methods through:

NZS 3602 The Use of Timber and Wood-based products for Use in Building.

NZS 3603 Timber Structures.

NZS 3604 Timber Framed Buildings:

1. Design to NZS 3604 Timber Structures complies with the NZBC in Verification Method B1/VM1 Clause 6.0 Timber.
2. Plywood is the only sheet material with properties listed in NZS 3604. Ecoply® structural plywood is in the F8/F8 stress grade.

Additionally, H3.2 CCA Ecoply® should be used in applications because it is dried to a higher average moisture content of approximately 18%. This provides for a more stable panel in service than placing a dry (less than 15%) sheet in a higher moisture environment.

Contributions to Compliance

Clause B2.3.1 (Durability)

H3.2 CCA treated Ecoply® structural plywood has a durability of 50-years and is made from softwood solid radiata pine veneer.

Ecoply® plywood is manufactured to meet the requirements of NZS 3602 Timber and Wood based products for use in buildings. If the product is used, handled and installed in accordance with CHH Plywood product literature it will meet the durability Clauses of the NZBC.

This durability of Ecoply® structural plywood will depend on the application. Detailing, treatment and installation details need careful consideration to satisfy the requirements of the NZBC. (Information on practices for detailing building components to exclude moisture to comply with the durability requirements of the NZBC can be found in the ECOPLY Specification & Installation Guide (October 2022)

Table 8 summarises the applications in which Ecoply® can be used as structural bracing together with the required preservative treatment and fastener material.

Contributions to Compliance

Clause F2.3.1 (Hazardous building materials)

Ecoply® plywood is safe to use, especially when simple Health and Safety protocols are in place:

- H3.2 CCA has an extremely low formaldehyde emission rate.
- Always wear safety glasses or non-fogging goggles when machining Ecoply® panels.
- If wood dust exposures are not controlled when machining (sawing, routing, planing, drilling etc.) a class P1 or P2 replaceable filter or disposable face piece respirator should be worn.
- Wear comfortable work gloves to avoid skin irritation and the risk of splinters. Wash hands with mild soap and water after handling panels

Conditions of Use

Ecoply® DD 21x2400x1200mmx F8/F8 Structural H3.2 CCA:

- Must be installed in accordance with the Ecoply® Specification and Installation Guide, October 2022
- Only fasteners specified in the Ecoply® Specification and Installation Guide, October 2022, must be used.
- Ecoply® must not be allowed to come into contact with soil. The bottom edge of the plywood sheet must be a minimum of 100mm above decks or paved ground and a minimum of 175mm above unprotected ground.
- Service Penetrations in Bracing Elements Small openings (e.g. power outlets) of 90 x 90mm or less may be placed no closer than 90mm to the edge of the braced element, or waste pipe outlets of max. 150mm diameter placed at no closer than 150mm to the edge of the braced element.
- 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 roofing and decking system supplier for installation, plywood selection and surface preparation requirements for specific roofing and decking products.
- Ecoply® DD 21x2400x1200mmx F8/F8 Structural H3.2 CCA IS NOT RECOMMENDED FOR ROOFING as a substrate for coverings or under a membrane.

Scope of Use

Ecoply® DD 21x2400x1200mmxF8/F8 Structural H3.2 CCA:

- 1. Is intended to provide structural bracing to the building, (Further information on this may be found at Section 3.0 Structural Bracing & Ceiling Diaphragms, Ecoply® Specification and Installation Guide, October 2022)
- 2. Structural plywood to AS/NZS 2269 is the only sheet brace material with properties for use in buildings over three storeys in height. (See pg 16, Structural Bracing and Ceiling Diaphragms, Ecoply® Specification and Installation Guide, October 2022)
- 3. Can be used where there is risk of panel size change due to changes in moisture levels, provided a 2mm to 3mm expansion gap is used between sheets.
- When attaching sheets:
 - Use only flathead nails or screws, with or without construction adhesives.
 - Fastener length should penetrate at least 10 nail diameters into the framing or be three times the sheet thickness, whichever is the greater. Longer or ring shank nails may be specified.
 - Fasteners must be at least 3 fastener diameters or 7mm from the edge of the sheet.
 - Standard fixing pattern: unless otherwise specified fasten edges and ends of sheets at 150mm centres, and within the panel at no more than 300mm centres (see diagram pg 7, Sheet Fasteners and Fixings, Ecoply® Specification and Installation Guide, October 2022).
 - Use hot dipped galvanised fasteners or corrosion resistant fasteners (i.e. stainless steel) determined by design for specific hazards.
 - Where using stainless steel nails, nails must be annular grooved
 - Refer to Table 7 for minimum fastener sizes. (pg 14. Ecoply® Specification and Installation Guide, October 2022)
 - Do not overdrive power driven nails.
 - Ecoply® DD 21x2400x1200mmxF8/F8 Structural H3.2 CCA: is not acoustically rated but can be used to contain noise.
 - Ecoply® DD 21x2400x1200mmxF8/F8 Structural H3.2 CCA: Can be used as an internal lining on walls and ceilings. but must have the correct fasteners (see diagram pg 7, Sheet Fasteners and Fixings, Ecoply Specification and Installation Guide, October 2022)
 - Is not suitable for use in wet areas such as bathrooms. and laundries
 - Is not suitable for use in food preparation areas such as kitchens.
 - Is not fireproof and care must be taken with decorative finish coatings or intumescent coatings. For advice on specific coating systems and their suitability for use with Ecoply® products, always refer to the coating manufacturer.

Documentation

- **Ecoply Installation and Specification Guide October 2022**

<https://chhply.co.nz/assets/Uploads/E...>

Design Installation Maintenance Test results

- **Ecoply Structural Square Edge May 2022**

<https://chhply.co.nz/ranges/ecoply/ec...>

Design Installation

- **CHH Ply: Changing the perspective of plywood.**

<https://chhply.co.nz/>

Certification Design Installation Maintenance Test results Warranty

Contact Details

Manufacture location	New Zealand / Aotearoa
Legal and trading name of manufacturer(s)	Carter Holt Harvey
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Manufacturer NZBN	9429046427342