



CLASS 1

# Building Product Information Sheet

Product name:

Treated Structural Plywood Solid Core

Product line (the product line from which the product is customised):

Black Forest Treated Structural Ply

Product description and its intended use (measurements, materials, usage):

Treated Structural Plywood 2400x1200x17mm Solid Core Design B/D Face Quality

**Available Sizes:** 12mm or 17mm x 1200x2400mm

**Product Identifiers in order above:** BFTS1SC and BFTS12SC

Black Forest Treated Structural Plywood is manufactured to AS/NZS 2269.1:2012 (Plywood - Structural) from Pinus Radiata for use as bracing for timber framed buildings in accordance with design codes NZS 3603 (Timber Structures Standard) and AS/NZ 1170 (Structural design actions). Face ply is cosmetically graded as: A, S, C & D in accordance with AS/NZS 2269.1. Intended uses may also include, as a wall bracing element; floor or roof diaphragm; external cladding; flooring; deck or roof substrate; internal wall panelling; ceiling and soffit linings; crafts, general construction and formwork.

Species Radiata

Grade B/D Face Quality

Treatment H3.2 CCA

Features

AS-NZS 2269 Certified F8

Place of manufacture: China

Legal and trading name of the manufacturer(s):

Feixian Xinyu Wood Co. Trading as Ayaya International Trading Limited

Legal and trading name of the importer (if applicable):

Black Forest Investments NZ Limited

Address for service:

BDO Christchurch, Awly Building, Level 4, 287-293 Durham Street  
Christchurch, New Zealand 8140

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New Zealand Government

**Relevant Building Code clauses:**

B1 Structure and B2 Durability. Manufactured in accordance with the Australian and New Zealand standard AS/NZS 2269 - Structural Plywood.

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

B1 Structure - the products shall meet the requirements of Clause B1 of the Building Regulations 1992, Schedule 1 the Building Code in particular clauses B1.1, B1.2, B1.3.1, B1.3.2, B1.3.3 and B1.3.4.

B1.1 - safeguarding people from injury and loss of amenity and protection of other property

B1.2 - functional requirements of buildings throughout their lives

B1.3.1 - low probability when used in a building in accordance with NZS3604.2011 Timber framed buildings or NZS/AS1720 Part 1.2022 Timber structures of rupturing, becoming unstable, losing equilibrium or collapsing throughout their lives.

B1.3.2 - low probability when used in accordance with NZS3604.2011 Timber framed buildings or NZS/AS1720 Part 1.2022 Timber structures of causing loss of amenity through undue deformation, vibratory response, degradation or other physical characteristics throughout their lives when the building is in use.

B1.3.3 - when used in accordance with NZS3604.2011 Timber framed buildings or NZS/AS1720 Part 1.2022 Timber structures, account is taken of all the physical conditions that are likely to affect the stability of the building element or building.

B1.3.4 - when used in accordance with NZS3604.2011 Timber framed buildings or NZS/AS1720 Part 1.2022 Timber structures, allowance is made for:

- i consequences of failure
- ii intended use of the building
- iii variation in the properties of materials and site characteristics
- iv accuracy limitations inherent in methods used to predict the stability of buildings.

B2 Durability – Structural Ply shall meet the requirements of Clause B2 of the Building Regulations 1992, Schedule 1 of the Building Code, specifically to the building elements having, with normal maintenance, to continue to satisfy the performance requirements of the Building Code. In particular clauses:

B2.3.1(a) - the life of the building, being not less than 50 years.

For greater detail refer to Clause B2.3.1 of the Building Regulations 1992.

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

Structural Ply must be preservative treated to at least H3.2 hazard rating and fixed with non-corrosive fasteners in situations where it may come into contact with moisture and dampness.

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

When used in construction, particularly work deemed to be Restricted Building Work (RBW) as defined in the Building (Definition of Restricted Building Work) Order 2011 it's use should be in accordance with the specifications set out in NZS3604:2011 Timber framed buildings or NZS/AS1720 Part 1.2022 Timber structures. Before undertaking any construction work you must consult with your local authority to check that any construction requirements are met and to determine if a Building Consent is required. A qualified tradesman should be consulted where expert services may be required.

**Design Considerations**

Verify the project's scope to ensure compliance with the intended use, including building suitability, treatment requirements, and structural framing support. Assess substrate compatibility when using B/D Structural Ply for purposes such as wall bracing, external cladding, ceiling diaphragms, flooring, decks, or roof substrates. It is essential to confirm that the substrate aligns with the specific building application. B/D Structural Ply is designed for use as external cladding, a bracing element, ceiling diaphragms, flooring, and deck or roof substrates.

**External Cladding**

When used as an external cladding, B/D Structural Ply should adhere to E2/AS1 guidelines. The board must have a minimum thickness of 12 mm, be treated with H3.2 (CCA), and coated with a paint finish with a minimum light reflectance value (LRV) of 40. All panels must be installed vertically. Failure to meet paint finish, installation orientation, or fixing instructions will void any warranty.

**Bracing Element**

When used as a wall bracing element, the following conditions apply:

Sheets should be fixed on one face only, with a sheet height of 2400 mm.

Sheets must be installed vertically, secured with nails or screws at 150 mm intervals around the panel's perimeter and 300 mm intervals on the central studs. Ensure that nails and screws are centered on the studs, with no requirement for fastening to nogs or dwangs.

Appropriate hold downs, like Gib Handibrac, should be installed at each corner of the bracing element.

**Ceiling Diaphragm**

For large room ceilings with bracing lines exceeding 5m, a ceiling diaphragm may be installed, provided there are at least 100 bracing units in each wall. Specifications must align with NZS 3604 (refer to section 13, paragraph 5.6) or be specifically designed according to NZS 3603:1993. The diaphragm's length should not exceed twice the width measurement between braced walls, and it must consist of B/D Ply across the entire specified diaphragm area.

**Flooring**

The floor framing should be designed according to NZS 3604:2011 (refer to section 7) or specifically to NZS 3603:1993. Consider floor loads of 1.5 kPa, 2 kPa, and 3 kPa as outlined in NZS 3604:2011 (refer to section 1). Maximum joist spacings (18 mm thickness and 2 kPa load) are 400 mm centres. Other options necessitate a specific design. B/D Structural Ply can serve as a structural floor diaphragm when specified in accordance with NZS 3604:2011 (section 7).

**Deck or Roof Substrate**

Specifications should align with E2/AS1, and all fixings (materials and spacings) should adhere to NZS 3604:2011.

**Support Centres (wall and ceiling lining)**

For timber-framed walls, the sheets must be supported by the timber framing, in accordance with the specified spacing:

**Wall Lining**

Stud centres (mm) = Nogging or dwang centres (mm)

400 = 1200

450 = 1200

600 = 800

**Ceiling Lining**

Joint/truss centres (mm) = Nogging or dwang centres (mm)

450 = 800

600 = 600

900 = 480

1200 = 480

**Installation requirements:**

When used in Restricted Building Work as defined in the Building (Definition of Restricted Building Work) Order 2011 plywood must be installed by a Licensed Building Practitioner with appropriate certification. Take care when transporting, handling and storing\*\*Black Forest B/D Structural Ply to avoid damaging sheets. Unload sheets by hand and carry on their side. If unloading mechanically, ensure there is a minimum of two well-spaced supports or supported with a pallet to avoid excessive bending or sagging. If storing on-site, stack ply sheets flat on a dry surface and at least 150 mm off the ground and ensure they are covered. The area where the sheets are stored must be dry, well-ventilated, and out of direct sunlight. No special precautions are required for plywood products in purchased form. Local ventilation should be provided to assure formaldehyde exposure limits are met. Under foreseeable conditions of use, avoid repeated breathing of wood dust. Local ventilation should be provided to remove wood dust from workspaces and to keep within formaldehyde exposure limits. Users should wear protective gloves and goggles. When handling or working on panel products to prevent injury.

**Maintenance requirements:**

Ensure boards are kept away from excessive moisture and dampness over prolonged periods.

Is the building product/building product line subject to warning or ban under section 26?:

No

If yes, description of the warning or ban under section 26:

N/A

Date: 10/11/2023