

CLASS 1

BUILDING PRODUCT INFORMATION SHEET

Product name:

Superstrand™ 20 mm Flooring

Product description and its intended use

Reconstituted Wood Panel - for interior Flooring for use in wet areas, with moisture protection. Square Edge (SQ) or Tongue and Groove (T&G)

Preservative Treated for Hazard Class H3.1 or less application.

3,600 x 1,200 x 20 mm - SQ & T&G

2,400 x 1,200 x 20 mm - SQ & T&G

3,600 x 800 x 20 mm - T&G

Place of manufacture:

New Zealand

Legal and trading name of the manufacturer(s):

Juken New Zealand Limited

Address for service:

Tenancy 1, Level 6, Tower 1, 205 Queen Street, Auckland 1010

Website:

www.jnl.co.nz

Email address:

info@jnl.co.nz

Phone No.

(09) 373 3933

NZBN

9429039201188

Relevant Building Code Clauses:

B1 Structure: B1.3.1, B1.3.2, B1.3.3 (a), (b), (f), (h), & (j), B1.3.4 (d).

B2 Durability: B2.3.1 (a)

F2 Hazardous Building Materials: F2.3.1.

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

B1 Structure: B1.3.1, B1.3.2, B1.3.3 (a), (b), (f), (h), & (j), B1.3.4 (d). Superstrand™ 20 mm Flooring meets the requirements for loads arising from self-weight, imposed gravity loads arising from use, earthquake, wind and impact.

B2 Durability: B2.3.1 (a) not less than 50 years.

F2 Hazardous Building Materials: F2.3.1. Superstrand™ 20 mm Flooring meets this requirement

Manufactured in accordance with AS/NZS 1860.1:2017 (Class 1), and Preservative Treated to AS/NZS 1604.1:2022 (H3), for Hazard Class H3 or less, applications.

Formaldehyde Emission - E₀

Limitations on the use of the building product:**Superstrand™ 20 mm Flooring**

- Separation or protection must be provided to Superstrand™ Flooring from heat sources such as fireplaces, heating appliances, flues and chimneys. Part 7 of NZBC Verification Method C/VM1 and Acceptable Solution C/AS1, and Acceptable Solution C/AS2 provide methods for separation and protection of combustible materials from heat sources

- The serviceable life of the product may be affected if the surface temperature exceeds 50°C for long periods.

Superstrand™ 20 mm Flooring is not for external use, and should not be exposed to persistent dampness or condensation.

Superstrand™ 20 mm Flooring can be maintained in a serviceable condition for at least 50 years, provided that:

- When pre-laid, the flooring has not been exposed to the weather for a period greater than 12 weeks.

- Appropriate measures have been taken to ensure the moisture content of the flooring is controlled in accordance with the provisions of NZBC Acceptable Solutions E2/AS1 and E3/AS1.

- The flooring has not been exposed to further weathering, or subjected to water immersion, e.g. flooding, or to sub-zero temperatures while in a wet condition.

- To allow for adequate ventilation and access, a minimum clearance of 550 mm between the surface of the ground and the underside of the Superstrand™ Flooring is required.

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

Superstand™ Flooring Square Edge and Superstand™ Flooring Tongue & Groove sheets have a density of approximately 660 kg/m³.

Loads

- The Superstand™ 20 mm Flooring will support loads of up to 1.5 kPa in buildings built within the scope of NZS 3604 with maximum floor joist spacing of 600 mm centres.
- The Superstand™ 20 mm Flooring will support loads up to 3 kPa for all other non-domestic flooring applications built within the scope of NZS 3604 with maximum floor joist spacing of 450 mm centres.
- The maximum point load allowed is 2.5 kN for both Superstand™ 20 mm Flooring Square Edge and Superstand™ 20 mm Flooring Tongue & Groove.

Superstand™ 20 mm Flooring floors built outside the scope of NZS 3604 must be subject to specific design and Juken New Zealand Ltd must be consulted for relevant design information, strength and stiffness.

The installation of Superstand™ 20 mm Flooring over steel floor joists has not been assessed.

Structural Diaphragms

- Superstand™ 20 mm Flooring has been appraised for use as a sheet material for diaphragms to resist lateral loads in NZS 3604 buildings. Such diaphragms must be detailed as required by Clause 7.3 of NZS 3604. Screw fixing must not be used for diaphragm floors.

Heat

- Over-floor heating systems may be used with Superstand™ 20 mm Flooring, provided it is not subjected to a temperature exceeding 35°C.
- Superstand™ 20 mm Flooring must not be subjected to temperatures exceeding 50°C for prolonged periods.

Fire Affecting Areas Beyond the Fire Source


- Superstand™ 20 mm Flooring can be used as flooring in Risk Group SH dwellings, which have no specific fire requirements under the N7RC. 

Installation requirements:

Installation must always be carried out under the supervision of, a Licensed Building Practitioner (LBP) with the relevant Licence Class.

For typical NZS 3604 applications pre-laid over supports as per NZ 3604, the stiffness of the Superstand™ 20 mm Flooring sheets will still be acceptable after exposure to the weather for 12 weeks. Post-laying of sheets avoids any loss in stiffness which may occur as a result of weathering.

General

- It does not generally matter which way up the Superstand™ 20 mm Flooring sheets are laid. If the floor is to be finished with a clear finish, then all Superstand™ 20 mm Flooring sheets should be laid with the printed face down.
- Sheets must be supported at all edges and ends, which may require additional blocking to be installed. Superstand™ 20 mm Tongue & Groove sheets do not need blocking under the tongue & groove joint.
- Tongue & Groove sheets must be laid with the long edges perpendicular to the joists and the short edges coincident with the joists.
- Each sheet must span at least two floor joist spans (i.e. be continuous over three joists), except at floor edges where infill sheets may be required.
- The moisture content of the floor framing timber must not exceed 18% when Superstand™ 20 mm Flooring is installed.
- Superstand™ Flooring must be fixed with 60 x 2.8 mm hot-dip galvanised or stainless steel, annular grooved flooring nails, or 50 x 8 g screws (non-diaphragm applications only) at 150 mm centres around the perimeter of the sheets, and at 300 mm centres at intermediate supports. Nails may be power or hand driven but must be parallel with, and no closer than 10 mm to the edge of the sheet.
- An expansion gap of 10 mm is required between sheets at 20 m intervals. A minimum 10 mm clearance must be provided between sheet edges and fixed objects such as bottom plates, columns, abutting concrete etc.
- Where Superstand™ 20 mm Tongue & Groove flooring is to be used as a diaphragm floor, then fixing must be in accordance with the engineering design. This type of flooring system requires the supporting joists to be at no more than 450 mm 

Maintenance requirements:

Adequate subfloor ventilation must be maintained by ensuring vegetation or other obstructions are kept away from vents in perimeter foundation walls.

Where ground vapour barriers exist they must be maintained in a serviceable and effective condition.

In wet areas, impervious floor coverings (or waterproof membranes) must be maintained to ensure water cannot penetrate through to the Superstand™ Flooring.

Any floor wastes must be installed and maintained to remain unobstructed, drain to the outside of the building, and prevent Superstand™ Flooring from becoming wet.

Section 26 of the Building Act 2004

These products are not subject to a warning or ban under section 26 of the Building Act 2004.

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