

Class 1
SuperPine® Structural Flooring
Building Products Information Requirements | Info. Sheet

Version: SuperPine® | v2 20.05.24

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|---------------------------|--|
| Product name | SuperPine® By Laminex® New Zealand |
| Product line | N/A |
| Product identifier | SuperPine® Square Edge SuperPine® Tongue & Groove |

Place of manufacture

| | |
|-----------------------------|---|
| Aotearoa New Zealand | ✓ |
| Overseas | |

Product description

SuperPine® is a high-density board manufactured by Laminex® New Zealand, under the trademark SuperPine®.

SuperPine® is manufactured using predominantly New Zealand Pinus Radiata particles formed with a urea formaldehyde resin under heat and pressure.

SuperPine® panels are suitable for timber framed buildings within the scope of NZS 3604 and primarily for use as a structural flooring panel fixed to solid timber, engineered timber, and steel framing joists in the following applications:

- Suspended ground floors
- Mid-floor
- Other applications:
- Flooring overlay to existing wooden and concrete floors.

SuperPine® is available in two types:

- Tongue and Groove (simple system which interlocks panels together)
- Square Edge

Key technical specifications:

| Panel dimensions (mm) | Panel weight | Panel density |
|-----------------------|---------------------------------|-----------------------|
| 3600 x 1200 x 20 | 60 kg (13.8 kg/m ²) | 690 kg/m ³ |
| 2400 x 1220 x 20 | 40 kg (13.8 kg/m ²) | 690 kg/m ³ |

Note: All dimensions and measurements are nominal.

All panels are ink marked on the underside with the product identification and a manufacturing traceability number. All panels have a label on the upper face. SuperPine® Tongue & Groove has a white polypropylene tongue.

Physical Properties

| Property | Units | AS/NZS min/max performance criteria |
|------------------------------------|------------------|-------------------------------------|
| Bending Strength (MoR) | MPa | 17 min |
| Modulus of Elasticity (MoE) | MPa | 2650 min |
| Internal Bond Strength (IB) | MPa | 0.50 min |
| 24-hour Thickness Swell | % | 14 max |
| Thickness Stability | % | 25 max |
| Glue Bond Quality | MPa | 2.9 min |
| Surface Water Absorption | g/m ² | 210 max |

Note: All dimensions and measurements are nominal.

Relevant building code clauses

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2, and B1.3.4 for loads arising from self-weight, imposed gravity loads arising from use, earthquake, wind and impact [i.e., B1.3.3 (a), (b), (f), (h), and (j)].

Clause B2 DURABILITY: Performance B2.3.1 (a) not less than 50 years, and B2.3.1 (b) 15 years.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

C3 Fire Affecting Areas Beyond the Fire Source.

- C3.4 (a) - C3.4 (b)
- C/AS2 - 4.17.3
- C/AS2 - Appendix C – Table C2.1
- C/VM2 Appendix B - Table B1

Contributions to compliance

SuperPine[®] is manufactured in accordance with AS/NZS 1860.1:2017 and tested in accordance with AS/NZS 4266.1:2017.

When stored, handled, installed, and maintained in accordance with the SuperPine[®] Technical Installation Manual and BRANZ Appraisal No. 1217, SuperPine[®] will meet the provisions of the New Zealand Building Code (NZBC) B2/AS1 - 1.2.1 (a), has a serviceable life of at least 50 years as a structural diaphragm or installed under structural walls, and (b) performance requirements of at least 15 years in other situations.

Scope of use

The information in the SuperPine[®] Technical Manual has been specifically designed in accordance with AS/NZS 1170 to comply with the appropriate design loadings for domestic and commercial buildings.

SuperPine[®] Structural Flooring will support loads of up to 2 kPa in buildings built within the scope of NZS 3604 with maximum floor joist spacing of 600mm centres. Point loads may reduce allowable floor joist spacing, please refer to the Floor Design section of the SuperPine[®] Technical Manual - download at laminex.co.nz

SuperPine[®] panels are suitable for timber framed buildings within the scope of NZS 3604, clause 1.1.2 and those uses specifically designed within the SuperPine[®] Technical Manual.

SuperPine[®] has also been appraised for use in steel-framed intermediate floors that have been designed and constructed in accordance with NASH Standard Part2, Section 8.

SuperPine® Structural Flooring has been appraised for use as a sheet material for diaphragms to resist lateral loads in NZS 3604 and NASH Part 2 buildings. Such diaphragms must be detailed as required by Clause 7.3 of NZS 3604 or Section 5.5.3 of NASH Standard Part 2 and the Technical Literature.

SuperPine® is approved for use in the Laminex® New Zealand Fire and Acoustic Floor System (Intertency mid-floor).

Conditions of use

SuperPine® has an exposure time of eight (8) weeks.

SuperPine® maximum joist spacing supporting the sheets must be no greater than 600mm centres. The sheets must be laid with the long edges perpendicular to the joists and the short edges coincident with the joists.

SuperPine® Structural Flooring is not recommended for use in bathrooms or showers.

Before occupancy, SuperPine® Structural Flooring must be finished by sealing the surface, or finishing, with a polyurethane coating system or other floor covering, as detailed in the Technical Literature.

SuperPine® Structural Flooring must not be subjected to temperatures exceeding 50°C for prolonged periods.

All design and building work must be carried out in accordance with the Laminex SuperPine® Structural Flooring Technical Literature and BRANZ Appraisal No. 1217 by competent and experienced tradespersons conversant with SuperPine® Structural Flooring. Where the work involves Restricted Building Work (RBW), this must be completed by, or under the supervision of, a Licensed Building Practitioner (LBP) with the relevant License Class.

Supporting documentation

The following additional documentation supports the above statements:

| Title (type) | Version | URL |
|-------------------------------------|------------------|----------------------------|
| SuperPine® Technical Manual | Edition May 2024 | Click here |
| SuperPine® BRANZ Appraisal No. 1217 | 04 May 2022 | Click here |
| SuperPine® Warranty | 09 Dec 2022 | Click here |
| SuperPine® Design Guide | 12 Dec 2022 | Click here |

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|---|---------------|----------------------------|
| SuperPine [®] Safety Data Sheet (SDS) | 13 April 2022 | Click here |
| SuperPine [®] Formaldehyde Emissions | 30 May 2022 | Click here |
| SuperPine [®] Volatile Organic Compounds (VOC) Certificate | 09 Dec 2022 | Click here |
| SuperPine [®] Care and Maintenance Guide | October 2022 | Click here |

Contact details

| Manufacture location | New Zealand |
|---------------------------------------|---|
| Legal and trading name of distributor | Fletcher Building Products Limited (company number 952008), trading as Laminex [®] NZ. |
| Manufacturer address for service | 810 Great South Road Auckland 1061 New Zealand |
| Manufacturer website | laminex.co.nz |
| Manufacturer email | CSC@laminex.co.nz |
| Manufacturer phone number | 0800 303 606 |
| Manufacturer NZBN | 9429037626969 |

Warnings and bans

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

No
