

strandfloor®



**SUPERPINE**®

by Laminex New Zealand™

# LNZ STRUCTURAL FLOORING

APRIL | 2023

# LNZ Structural Flooring Options

Laminex New Zealand has a range of structural flooring options to suit various building applications including:

## **StrandfloorH3.1® | Strandfloor®**

- A high-density reconstituted wood panel made from renewably sourced strands of Pinus Radiata bonded with moisture resistant resin and wax, specifically formulated for use as residential & commercial interior flooring platforms within the scope of NZS 3604 and Specific Engineer Design applications.
- StrandfloorH3.1® has the addition of a water based insecticide and fungicide added to provide superior performance when exposed to moisture.









## **SuperPine®**

- A high-density board made from renewably sourced Pinus Radiata wood particles which are bonded together with melamine urea formaldehyde resin and a wax emulsion to aid moisture resistance through out the panel. Designed for use as residential & commercial interior platforms within the scope of NZS 3604.



# Use | Applications







## strandfloorH3.1® strandfloor®

- Pre-laid or post-laid flooring over timber and engineered beams or steel joists in single or double layer applications 
- An overlay to concrete or wooden floors 
- As floor diaphragms for wind and earthquake loads. 
- For general staircase construction 
- As carcass members for cabinetry. 
- For industrial shelving and packaging 

**NOTE:**

1. StrandfloorH3.1® meets the New Zealand building requirements for use in wet areas.
2. Strandfloor® and SuperPine® is also suitable for use in open and closed kitchen and laundries. However, strict criteria must be met to satisfy the Building Code.



- Pre-laid or post-laid flooring over traditional timber floor joists, engineered timber joists, such as "I" Joists, LVL and PosiSTRUT, or steel joists supports in single or double layer 
- An overlay to concrete floor slabs or wooden floors 
- As floor diaphragms for the transfer of wind and earthquake loads. 
- For general staircase construction. 
- For shelving and packaging. 
- As carcass members for cabinetry. 

# StrandfloorH3.1<sup>®</sup> Range & Specifications

strandfloorH3.1<sup>®</sup>

Type	Exposure Time	Panel Sizes	Weight (kg) Per m <sup>2</sup>	Weight (kg) Per Panel	Pack Size
<b>Tongue &amp; Groove</b> 	<b>12 weeks</b>	3600x1200x20mm	13.6	60kg	20
		2400x1200x20mm	13.6	40kg	45
<b>Square Edge</b> 	<b>12 Weeks</b>	3600x2400x20mm*	13.6	118kg	10
		3600x1200x20mm	13.6	60kg	20
		2400x1200x20mm	13.6	40kg	45

\*Product Made To Order (MTO) Only. MOQ & T&Cs apply.

# Strandfloor® Range & Specifications



strandfloor®

Type	Exposure Time	Panel Sizes	Weight (kg) Per m <sup>2</sup>	Weight (kg) Per Panel	Pack Size
<b>Tongue &amp; Groove</b> 	<b>8 weeks</b>	3600x1200x20mm	13.6	60kg	20
		2400x1200x20mm	13.6	40kg	45
<b>Square Edge</b> 	<b>8 Weeks</b>	3600x2400x20mm*	13.6	118kg	10
		3600x1200x20mm	13.6	60kg	20
		2400x1200x20mm	13.6	40kg	45

\*Product Made To Order (MTO) Only. MOQ & T&Cs apply.

# SuperPine<sup>®</sup> Range & Specifications



Type	Exposure Time	Panel Sizes	Weight (kg) Per m2	Weight (kg) Per Panel	Pack Size
<b>Tongue &amp; Groove</b>  	<b>8 weeks</b>	3600x1200x20mm	13.8	60kg	20
		2400x1200x20mm	13.8	40kg	45
<b>Square Edge</b>  	<b>8 Weeks</b>	3600x1200x20mm	13.8	60kg	20
		2400x1200x20mm	13.8	40kg	45

# StrandfloorH3.1<sup>®</sup> & Strandfloor<sup>®</sup> Flooring Selector

Are you laying this floor in a wet or dry area?

DRY AREA

WET AREA

Do you want 8 or 12 weeks exposure?

8 WEEKS

12 WEEKS

Will you be clear finishing?

NO

YES



# SuperPine® Flooring Selector

Do you want 8 weeks or 12 weeks exposure?

12 WEEKS

8 WEEKS

Will you be clear finishing?

NO

YES

Do you want a longer exposure time?

YES

NO





# StrandfloorH3.1<sup>®</sup> | Strandfloor<sup>®</sup> - Physical Properties

## StrandfloorH3.1<sup>®</sup> Square Edge & StrandfloorH3.1<sup>®</sup> Tongue & Groove

Property	Units	Manufacturing Mean*	AS/NZS min/max
Bending Strength (MoR)	MPa	25.5	19 min
Modulus of Elasticity (MoE)	MPa	3681	2750 min
Internal Bond Strength (IB)	MPa	0.927	0.55 min
24-hour Thickness Swell	%	5.0	8 max

## Strandfloor<sup>®</sup> Square Edge & Strandfloor<sup>®</sup> Tongue & Groove

Property	Units	Manufacturing Mean*	AS/NZS min/max
Bending Strength (MoR)	MPa	23.1	17 min
Modulus of Elasticity (MoE)	MPa	3525	2650 min
Internal Bond Strength (IB)	MPa	0.681	0.50 min
24-hour Thickness Swell	%	6.9	14 max

\*Based on Juken 2018 manufacturing mean data.

# Other Properties

## Strand Acoustic Properties\*

Product	Thickness	STC Value (dB)	IIC Value (dB)
Strandfloor <sup>®</sup>	20mm	24	13
Strandsarking <sup>®</sup>	16.3mm	27	N/A
Strandboard <sup>®</sup>	12mm	25	N/A

\*Tested by UoA Acoustic Lab – not accessed by BRANZ.

## Flooring Characteristic Properties\*\*

Product	Property	Parallel	Perpendicular
Strandfloor <sup>®</sup>	Shear strength	7.2 MPa	6.45 MPa

\*\*Tested in accordance with AS/NZS 2269.1 using log normal method of AS/NZS 4063.2

# SuperPine<sup>®</sup> Physical Properties

Property	Units	AS/NZS min/max
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 <sup>2</sup>	210 max

- **SuperPine<sup>®</sup> meets the requirements of a class 2 particle board flooring and can be used for any application within NZS 3604.**

# Certifications

strandfloorH3i<sup>®</sup>

strandfloor<sup>®</sup>

 **SUPERPINE<sup>®</sup>**  
by Laminex New Zealand™



*Furniture, Fittings & Flooring*  
Licence No. 3208041



The mark of  
responsible forestry



# Compliance

## strandfloorH3.1<sup>®</sup>

- StrandfloorH3.1<sup>®</sup> has CodeMark Certificates CM-1004.
- StrandfloorH3.1<sup>®</sup> also has a BRANZ appraisal, No. 677 (2021).
- The CodeMark Certificates and BRANZ Appraisals cover the use of this product within the scope of the New Zealand Building Code.
- Current CodeMark & BRANZ Certificates can be viewed at [www.BRANZ.co.nz](http://www.BRANZ.co.nz)
- These Certificates can also be found at [Laminex.co.nz](http://Laminex.co.nz)

## strandfloor<sup>®</sup>

- Strandfloor<sup>®</sup> has CodeMark Certificates CM-1003.
- Strandfloor<sup>®</sup> also has a BRANZ appraisal, No. 676 (2021).
- The CodeMark Certificates and BRANZ Appraisals cover the use of this product within the scope of the New Zealand Building Code.
- Current CodeMark & BRANZ Certificates can be viewed at [www.BRANZ.co.nz](http://www.BRANZ.co.nz)
- These Certificates can also be found at [Laminex.co.nz](http://Laminex.co.nz)



- SuperPine<sup>®</sup> Structural Flooring has a BRANZ appraisal, No. 1217 (2022) covering use within the New Zealand Building Code.
- Current BRANZ Certificate can be viewed at [www.BRANZ.co.nz](http://www.BRANZ.co.nz)
- BRANZ Appraisal can also be found at [Laminex.co.nz](http://Laminex.co.nz)
- BRANZ test products to confirm they comply where they state performance to the NZBC – this is a scientific based approach.

• *BRANZ test products to confirm they comply where they state performance to the NZBC – this is a scientific based approach.*

# Compliance

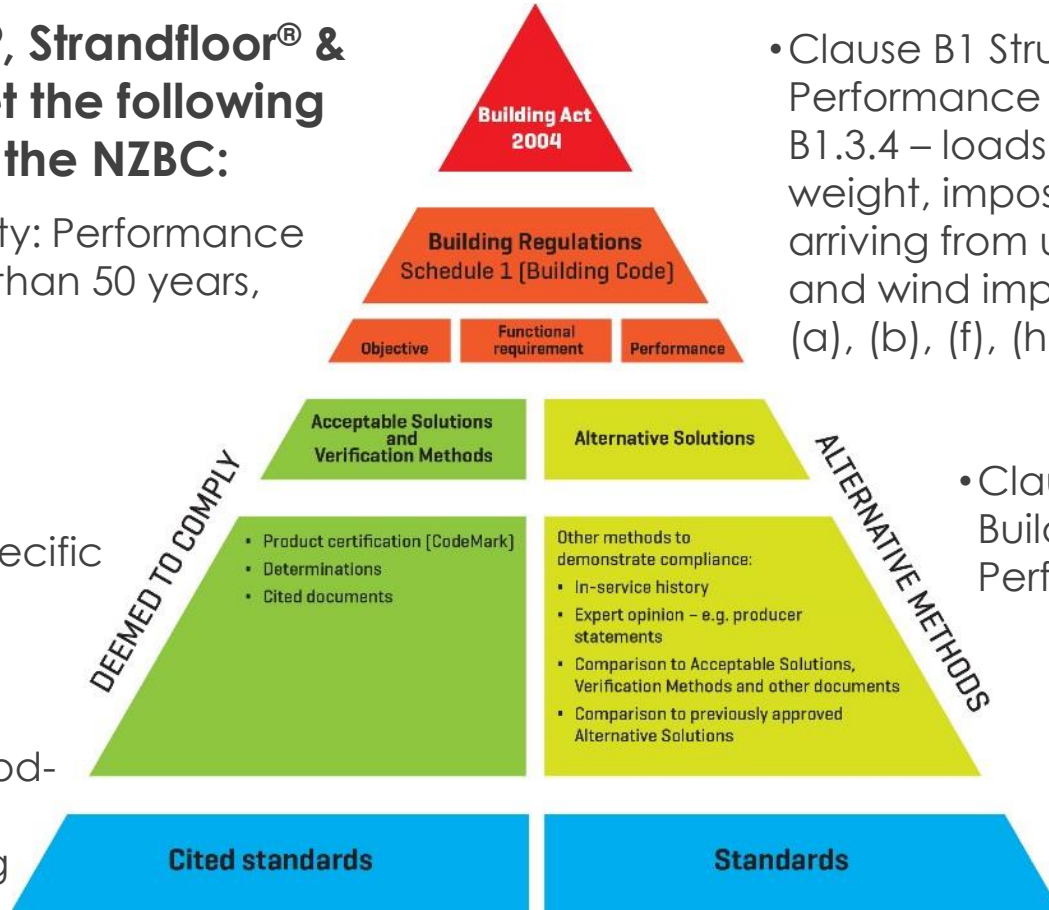
- StrandfloorH3.1<sup>®</sup>, Strandfloor<sup>®</sup> and SuperPine<sup>®</sup> Structural Flooring has been BRANZ appraised.
- Appraisal numbers are as follows:
  - StrandfloorH3.1<sup>®</sup> | No. 677 (2021)
  - Strandfloor<sup>®</sup> | No. 676 (2021)
  - SuperPine<sup>®</sup> | No. 1217 (2022)
- All Appraisals cover use within the New Zealand Building Code. The current certificate can be viewed on their website [www.BRANZ.co.nz](http://www.BRANZ.co.nz).
- BRANZ test products to confirm they comply where they state performance to the NZBC – this is a scientific based approach.
- BRANZ Appraisal can also be found at [laminex.co.nz](http://laminex.co.nz)



# Compliance | New Zealand Building Code

## StrandfloorH3.1<sup>®</sup>, Strandfloor<sup>®</sup> & SuperPine<sup>®</sup> meet the following requirements of the NZBC:

- Clause B2 Durability: Performance B2.3.1 (a) not less than 50 years, B2.3.1 (b) 15 years
- NZS 3604 – Timber frame buildings – doesn't require specific engineer design
- AS/NZS 4266.1 – Reconstituted wood-based panels – methods of testing



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

- Clause Hazardous Building Materials: Performance F2.3.1

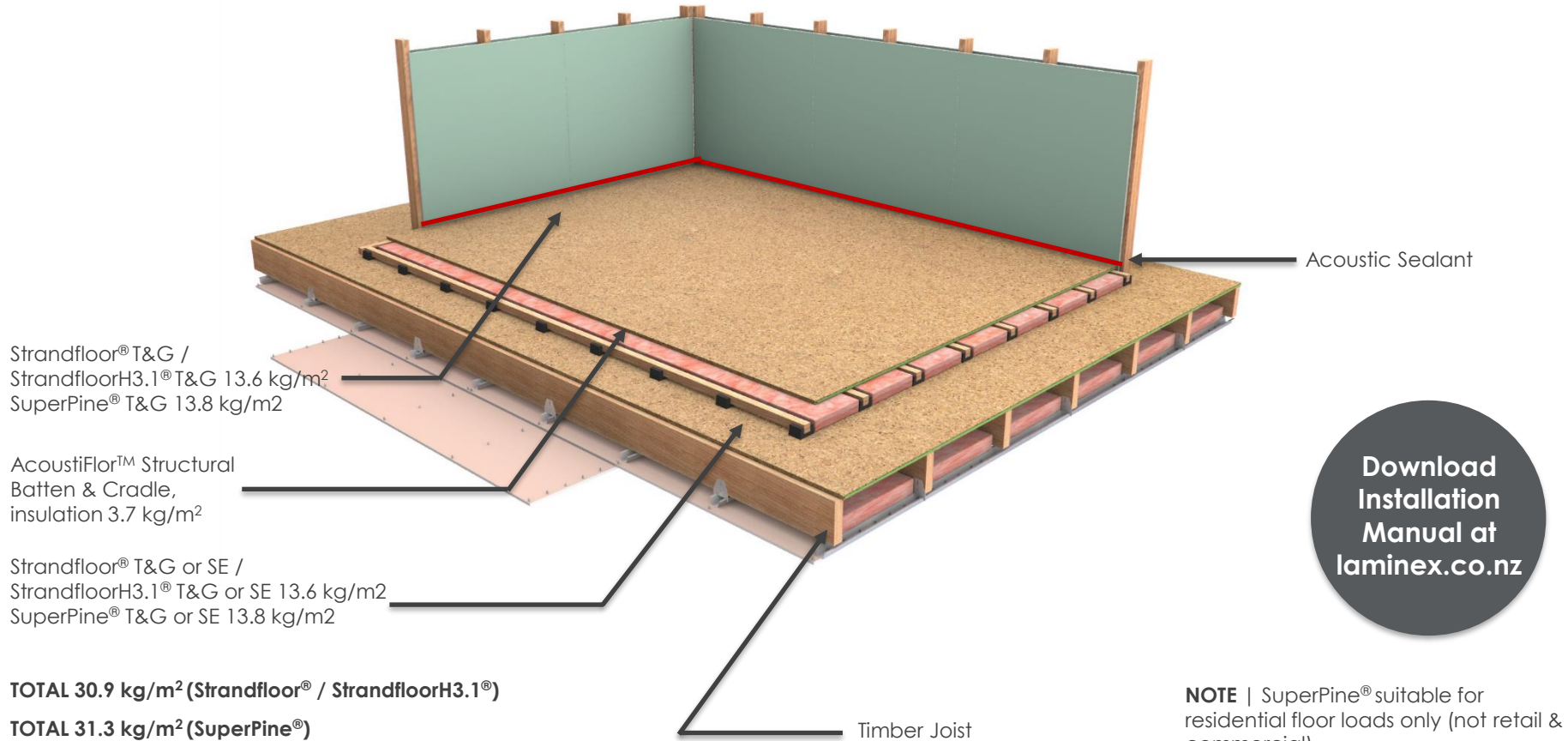
- AS/NZS 1860.1 – particleboard flooring – specifications

# LNZ Fire & Acoustic Floor System

- Laminex New Zealand™ has developed a lightweight floor system (above joist weight of 30.9kg/m<sup>2</sup> (Strandfloor®/StrandfloorH3.1®) or 31.3kg/M<sup>2</sup> (SuperPine®)) that is suitable for use as intertenancy floor.
- As per Clause G6 'Airborne and Impact sound' to the New Zealand Building Code (NZBC), the Sound Transmission Class (STC) and the Impact Insulation Class (IIC) for intertenancy floors shall be no less than 55.
- The Laminex New Zealand™ Fire & Acoustic Floor System has been tested and verified to achieve the fire ratings up to 60/60/60 FRR and STC 65/IIC-56. The acoustic performance exceeds the minimum requirements of Clause-G6 of the NZBC.
- The acoustic performance of the system has been verified by Marshall Day Acoustics & independently tested at Auckland University and the fire performance has been tested/assessed by BRANZ 394.
- **StrandfloorH3.1®** , **Strandfloor®** and **SuperPine®** has been tested and approved to be used in the Laminex New Zealand™ Fire & Acoustic Floor System. See next page for more details.



# LNZ Fire & Acoustic Floor System



# Production Process Overview

strandfloorH3.1<sup>®</sup>

strandfloor<sup>®</sup>



**SUPERPINE<sup>®</sup>**

by Laminex New Zealand™

1



- Renewably sourced Pinus Radiata is chipped into strands (Strandfloor<sup>®</sup>) or small particles (SuperPine<sup>®</sup>).

2



- Resin is added to the wood particles as follows:
  - StrandfloorH3.1<sup>®</sup> & Strandfloor<sup>®</sup> | A polymer resin
  - SuperPine<sup>®</sup> | A formaldehyde resin

3



- The wood particles are then pressed under heat and pressure to form a 20mm thick flooring panel.

4



- Panels sanded, cut (tongue inserted) then and packaged ready for distribution.

# StrandfloorH3.1® | Strandfloor® Technical Tools Available



**2.4 Strandfloor types**

2.4.1 Strandfloor® Super Edge  
 2.4.2 Strandfloor® Super Edge  
 2.4.3 Strandfloor® Super Edge  
 2.4.4 Strandfloor® Super Edge  
 2.4.5 Strandfloor® Super Edge  
 2.4.6 Strandfloor® Super Edge  
 2.4.7 Strandfloor® Super Edge  
 2.4.8 Strandfloor® Super Edge  
 2.4.9 Strandfloor® Super Edge  
 2.4.10 Strandfloor® Super Edge  
 2.4.11 Strandfloor® Super Edge  
 2.4.12 Strandfloor® Super Edge  
 2.4.13 Strandfloor® Super Edge  
 2.4.14 Strandfloor® Super Edge  
 2.4.15 Strandfloor® Super Edge  
 2.4.16 Strandfloor® Super Edge  
 2.4.17 Strandfloor® Super Edge  
 2.4.18 Strandfloor® Super Edge  
 2.4.19 Strandfloor® Super Edge  
 2.4.20 Strandfloor® Super Edge  
 2.4.21 Strandfloor® Super Edge  
 2.4.22 Strandfloor® Super Edge  
 2.4.23 Strandfloor® Super Edge  
 2.4.24 Strandfloor® Super Edge  
 2.4.25 Strandfloor® Super Edge  
 2.4.26 Strandfloor® Super Edge  
 2.4.27 Strandfloor® Super Edge  
 2.4.28 Strandfloor® Super Edge  
 2.4.29 Strandfloor® Super Edge  
 2.4.30 Strandfloor® Super Edge  
 2.4.31 Strandfloor® Super Edge  
 2.4.32 Strandfloor® Super Edge  
 2.4.33 Strandfloor® Super Edge  
 2.4.34 Strandfloor® Super Edge  
 2.4.35 Strandfloor® Super Edge  
 2.4.36 Strandfloor® Super Edge  
 2.4.37 Strandfloor® Super Edge  
 2.4.38 Strandfloor® Super Edge  
 2.4.39 Strandfloor® Super Edge  
 2.4.40 Strandfloor® Super Edge  
 2.4.41 Strandfloor® Super Edge  
 2.4.42 Strandfloor® Super Edge  
 2.4.43 Strandfloor® Super Edge  
 2.4.44 Strandfloor® Super Edge  
 2.4.45 Strandfloor® Super Edge  
 2.4.46 Strandfloor® Super Edge  
 2.4.47 Strandfloor® Super Edge  
 2.4.48 Strandfloor® Super Edge  
 2.4.49 Strandfloor® Super Edge  
 2.4.50 Strandfloor® Super Edge  
 2.4.51 Strandfloor® Super Edge  
 2.4.52 Strandfloor® Super Edge  
 2.4.53 Strandfloor® Super Edge  
 2.4.54 Strandfloor® Super Edge  
 2.4.55 Strandfloor® Super Edge  
 2.4.56 Strandfloor® Super Edge  
 2.4.57 Strandfloor® Super Edge  
 2.4.58 Strandfloor® Super Edge  
 2.4.59 Strandfloor® Super Edge  
 2.4.60 Strandfloor® Super Edge  
 2.4.61 Strandfloor® Super Edge  
 2.4.62 Strandfloor® Super Edge  
 2.4.63 Strandfloor® Super Edge  
 2.4.64 Strandfloor® Super Edge  
 2.4.65 Strandfloor® Super Edge  
 2.4.66 Strandfloor® Super Edge  
 2.4.67 Strandfloor® Super Edge  
 2.4.68 Strandfloor® Super Edge  
 2.4.69 Strandfloor® Super Edge  
 2.4.70 Strandfloor® Super Edge  
 2.4.71 Strandfloor® Super Edge  
 2.4.72 Strandfloor® Super Edge  
 2.4.73 Strandfloor® Super Edge  
 2.4.74 Strandfloor® Super Edge  
 2.4.75 Strandfloor® Super Edge  
 2.4.76 Strandfloor® Super Edge  
 2.4.77 Strandfloor® Super Edge  
 2.4.78 Strandfloor® Super Edge  
 2.4.79 Strandfloor® Super Edge  
 2.4.80 Strandfloor® Super Edge  
 2.4.81 Strandfloor® Super Edge  
 2.4.82 Strandfloor® Super Edge  
 2.4.83 Strandfloor® Super Edge  
 2.4.84 Strandfloor® Super Edge  
 2.4.85 Strandfloor® Super Edge  
 2.4.86 Strandfloor® Super Edge  
 2.4.87 Strandfloor® Super Edge  
 2.4.88 Strandfloor® Super Edge  
 2.4.89 Strandfloor® Super Edge  
 2.4.90 Strandfloor® Super Edge  
 2.4.91 Strandfloor® Super Edge  
 2.4.92 Strandfloor® Super Edge  
 2.4.93 Strandfloor® Super Edge  
 2.4.94 Strandfloor® Super Edge  
 2.4.95 Strandfloor® Super Edge  
 2.4.96 Strandfloor® Super Edge  
 2.4.97 Strandfloor® Super Edge  
 2.4.98 Strandfloor® Super Edge  
 2.4.99 Strandfloor® Super Edge  
 2.4.100 Strandfloor® Super Edge

**3 Material properties**

**3.1 Description**

**3.2 Panel dimensions**

Panel Dimensions	Weight (kg)	Volume (m³)
1200 x 2400 x 22	124	0.62
1200 x 2400 x 28	165	0.83
1200 x 2400 x 35	206	1.04
1200 x 2400 x 42	247	1.25
1200 x 2400 x 48	288	1.46
1200 x 2400 x 55	329	1.67
1200 x 2400 x 62	370	1.88
1200 x 2400 x 68	411	2.09
1200 x 2400 x 75	452	2.30
1200 x 2400 x 82	493	2.51
1200 x 2400 x 88	534	2.72
1200 x 2400 x 95	575	2.93
1200 x 2400 x 102	616	3.14
1200 x 2400 x 108	657	3.35
1200 x 2400 x 115	698	3.56
1200 x 2400 x 122	739	3.77
1200 x 2400 x 128	780	3.98
1200 x 2400 x 135	821	4.19
1200 x 2400 x 142	862	4.40
1200 x 2400 x 148	903	4.61
1200 x 2400 x 155	944	4.82
1200 x 2400 x 162	985	5.03
1200 x 2400 x 168	1026	5.24
1200 x 2400 x 175	1067	5.45
1200 x 2400 x 182	1108	5.66
1200 x 2400 x 188	1149	5.87
1200 x 2400 x 195	1190	6.08
1200 x 2400 x 202	1231	6.29
1200 x 2400 x 208	1272	6.50
1200 x 2400 x 215	1313	6.71
1200 x 2400 x 222	1354	6.92
1200 x 2400 x 228	1395	7.13
1200 x 2400 x 235	1436	7.34
1200 x 2400 x 242	1477	7.55
1200 x 2400 x 248	1518	7.76
1200 x 2400 x 255	1559	7.97
1200 x 2400 x 262	1600	8.18
1200 x 2400 x 268	1641	8.39
1200 x 2400 x 275	1682	8.60
1200 x 2400 x 282	1723	8.81
1200 x 2400 x 288	1764	9.02
1200 x 2400 x 295	1805	9.23
1200 x 2400 x 302	1846	9.44
1200 x 2400 x 308	1887	9.65
1200 x 2400 x 315	1928	9.86
1200 x 2400 x 322	1969	10.07
1200 x 2400 x 328	2010	10.28
1200 x 2400 x 335	2051	10.49
1200 x 2400 x 342	2092	10.70
1200 x 2400 x 348	2133	10.91
1200 x 2400 x 355	2174	11.12
1200 x 2400 x 362	2215	11.33
1200 x 2400 x 368	2256	11.54
1200 x 2400 x 375	2297	11.75
1200 x 2400 x 382	2338	11.96
1200 x 2400 x 388	2379	12.17
1200 x 2400 x 395	2420	12.38
1200 x 2400 x 402	2461	12.59
1200 x 2400 x 408	2502	12.80
1200 x 2400 x 415	2543	13.01
1200 x 2400 x 422	2584	13.22
1200 x 2400 x 428	2625	13.43
1200 x 2400 x 435	2666	13.64
1200 x 2400 x 442	2707	13.85
1200 x 2400 x 448	2748	14.06
1200 x 2400 x 455	2789	14.27
1200 x 2400 x 462	2830	14.48
1200 x 2400 x 468	2871	14.69
1200 x 2400 x 475	2912	14.90
1200 x 2400 x 482	2953	15.11
1200 x 2400 x 488	2994	15.32
1200 x 2400 x 495	3035	15.53
1200 x 2400 x 502	3076	15.74
1200 x 2400 x 508	3117	15.95
1200 x 2400 x 515	3158	16.16
1200 x 2400 x 522	3199	16.37
1200 x 2400 x 528	3240	16.58
1200 x 2400 x 535	3281	16.79
1200 x 2400 x 542	3322	17.00
1200 x 2400 x 548	3363	17.21
1200 x 2400 x 555	3404	17.42
1200 x 2400 x 562	3445	17.63
1200 x 2400 x 568	3486	17.84
1200 x 2400 x 575	3527	18.05
1200 x 2400 x 582	3568	18.26
1200 x 2400 x 588	3609	18.47
1200 x 2400 x 595	3650	18.68
1200 x 2400 x 602	3691	18.89
1200 x 2400 x 608	3732	19.10
1200 x 2400 x 615	3773	19.31
1200 x 2400 x 622	3814	19.52
1200 x 2400 x 628	3855	19.73
1200 x 2400 x 635	3896	19.94
1200 x 2400 x 642	3937	20.15
1200 x 2400 x 648	3978	20.36
1200 x 2400 x 655	4019	20.57
1200 x 2400 x 662	4060	20.78
1200 x 2400 x 668	4101	20.99
1200 x 2400 x 675	4142	21.20
1200 x 2400 x 682	4183	21.41
1200 x 2400 x 688	4224	21.62
1200 x 2400 x 695	4265	21.83
1200 x 2400 x 702	4306	22.04
1200 x 2400 x 708	4347	22.25
1200 x 2400 x 715	4388	22.46
1200 x 2400 x 722	4429	22.67
1200 x 2400 x 728	4470	22.88
1200 x 2400 x 735	4511	23.09
1200 x 2400 x 742	4552	23.30
1200 x 2400 x 748	4593	23.51
1200 x 2400 x 755	4634	23.72
1200 x 2400 x 762	4675	23.93
1200 x 2400 x 768	4716	24.14
1200 x 2400 x 775	4757	24.35
1200 x 2400 x 782	4798	24.56
1200 x 2400 x 788	4839	24.77
1200 x 2400 x 795	4880	24.98
1200 x 2400 x 802	4921	25.19
1200 x 2400 x 808	4962	25.40
1200 x 2400 x 815	5003	25.61
1200 x 2400 x 822	5044	25.82
1200 x 2400 x 828	5085	26.03
1200 x 2400 x 835	5126	26.24
1200 x 2400 x 842	5167	26.45
1200 x 2400 x 848	5208	26.66
1200 x 2400 x 855	5249	26.87
1200 x 2400 x 862	5290	27.08
1200 x 2400 x 868	5331	27.29
1200 x 2400 x 875	5372	27.50
1200 x 2400 x 882	5413	27.71
1200 x 2400 x 888	5454	27.92
1200 x 2400 x 895	5495	28.13
1200 x 2400 x 902	5536	28.34
1200 x 2400 x 908	5577	28.55
1200 x 2400 x 915	5618	28.76
1200 x 2400 x 922	5659	28.97
1200 x 2400 x 928	5700	29.18
1200 x 2400 x 935	5741	29.39
1200 x 2400 x 942	5782	29.60
1200 x 2400 x 948	5823	29.81
1200 x 2400 x 955	5864	30.02
1200 x 2400 x 962	5905	30.23
1200 x 2400 x 968	5946	30.44
1200 x 2400 x 975	5987	30.65
1200 x 2400 x 982	6028	30.86
1200 x 2400 x 988	6069	31.07
1200 x 2400 x 995	6110	31.28
1200 x 2400 x 1002	6151	31.49



**Design Guide**

**1.1 Non-specific design**

**1.2 Specific design**

**1.3 Details**

**1.4 Details**

**1.5 Details**

**1.6 Details**

**1.7 Details**

**1.8 Details**

**1.9 Details**

**1.10 Details**

**1.11 Details**

**1.12 Details**

**1.13 Details**

**1.14 Details**

**1.15 Details**

**1.16 Details**

**1.17 Details**

**1.18 Details**

**1.19 Details**

**1.20 Details**

**1.21 Details**

**1.22 Details**

**1.23 Details**

**1.24 Details**

**1.25 Details**

**1.26 Details**

**1.27 Details**

**1.28 Details**

**1.29 Details**

**1.30 Details**

**1.31 Details**

**1.32 Details**

**1.33 Details**

**1.34 Details**

**1.35 Details**

**1.36 Details**

**1.37 Details**

**1.38 Details**

**1.39 Details**

**1.40 Details**

**1.41 Details**

**1.42 Details**

**1.43 Details**

**1.44 Details**

**1.45 Details**

**1.46 Details**

**1.47 Details**

**1.48 Details**

**1.49 Details**

**1.50 Details**

**1.51 Details**

**1.52 Details**

**1.53 Details**

**1.54 Details**

**1.55 Details**

**1.56 Details**

**1.57 Details**

**1.58 Details**

**1.59 Details**

**1.60 Details**

**1.61 Details**

**1.62 Details**

**1.63 Details**

**1.64 Details**

**1.65 Details**

**1.66 Details**

**1.67 Details**

**1.68 Details**

**1.69 Details**

**1.70 Details**

**1.71 Details**

**1.72 Details**

**1.73 Details**

**1.74 Details**

**1.75 Details**

**1.76 Details**

**1.77 Details**

**1.78 Details**

**1.79 Details**

**1.80 Details**

**1.81 Details**

**1.82 Details**

**1.83 Details**

**1.84 Details**

**1.85 Details**

**1.86 Details**

**1.87 Details**

**1.88 Details**

**1.89 Details**

**1.90 Details**

**1.91 Details**

**1.92 Details**

**1.93 Details**

**1.94 Details**

**1.95 Details**

**1.96 Details**

**1.97 Details**

**1.98 Details**

**1.99 Details**

**2.00 Details**



**strandfloor Warranty**

**Laminex**

**Warranty**

**1.1**

**1.2**

**1.3**

**1.4**

**1.5**

**1.6**

**1.7**

**1.8**

**1.9**

**1.10**

**1.11**

**1.12**

**1.13**

**1.14**

**1.15**

**1.16**

**1.17**

**1.18**

**1.19**

**1.20**

**1.21**

**1.22**

**1.23**

**1.24**

**1.25**

**1.26**

**1.27**

**1.28**

**1.29**

**1.30**

**1.31**

**1.32**

**1.33**

**1.34**

**1.35**

**1.36**

**1.37**

**1.38**

**1.39**

**1.40**

**1.41**

**1.42**

**1.43**

**1.44**

**1.45**

**1.46**

**1.47**

**1.48**

**1.49**

**1.50**

**1.51**

**1.52**

**1.53**

**1.54**

**1.55**

**1.56**

**1.57**

**1.58**

**1.59**

**1.60**

**1.61**

**1.62**

**1.63**

**1.64**

**1.65**

**1.66**

**1.67**

**1.68**

**1.69**

**1.70**

**1.71**

**1.72**

**1.73**

**1.74**

**1.75**

**1.76**

**1.77**

**1.78**

**1.79**

**1.80**

**1.81**

**1.82**

**1.83**

**1.84**

**1.85**

**1.86**

**1.87**

**1.88**

**1.89**

**1.90**

**1.91**

**1.92**

**1.93**

**1.94**

**1.95**

**1.96**

**1.97**

**1.98**

**1.99**

**2.00**

Technical Manual (Digital & Offline)

Design Guide (Digital)

Warranty



# SuperPine® Technical Tools Available

**2.4 SuperPine® types**

**2.4.1 SuperPine® Super Pine**

- SuperPine® Super Pine is a heavy-duty floorboard designed for residential use.
- SuperPine® Super Pine is available in a range of finishes.
- SuperPine® Super Pine is available in a range of lengths.
- SuperPine® Super Pine is available in a range of widths.

**2.4.2 SuperPine® Triplex 5 Green**

SuperPine® Triplex 5 Green is a heavy-duty floorboard designed for residential use.

**2.5 Flooring Guide**

SuperPine® Triplex 5 Green is a heavy-duty floorboard designed for residential use.

**3.3 Panel tolerances**

Table 11: General tolerances for planar tolerances

Material	Thickness	Flatness	Warpage
SuperPine® Super Pine	18mm	±0.2mm	±0.2mm
SuperPine® Triplex 5 Green	18mm	±0.2mm	±0.2mm

Technical Manual (Digital & Offline)

**1.1 Non-specific design**

SuperPine® flooring is designed for residential use.

**1.2 Specific design**

SuperPine® flooring is designed for residential use.

**1.3 General design**

SuperPine® flooring is designed for residential use.

**1.4 Specific design**

SuperPine® flooring is designed for residential use.

Design Guide (Digital)

**Care and Maintenance**

**Ongoing maintenance**

- Regular cleaning is essential to maintain the appearance of SuperPine® flooring.
- Use a soft, dry cloth to remove dust and dirt.
- Use a mild detergent solution for cleaning.

**Spill clean up**

- Wipe up spills immediately to prevent staining.
- Use a mild detergent solution for cleaning.
- Use a soft, dry cloth to remove moisture.

**General precautions**

- SuperPine® flooring is not suitable for use in areas with high moisture.
- SuperPine® flooring is not suitable for use in areas with high humidity.
- SuperPine® flooring is not suitable for use in areas with high salt content.

Updated Care & Maint. Guide (Digital)

**Warranty**

SuperPine® flooring is covered by a warranty.

Laminex® flooring is covered by a warranty.

Warranty

**SAFETY DATA SHEET**

1. Identification of the hazard and the supplier

2. Hazardous ingredients

3. Composition / Information on hazardous ingredients

4. First Aid Measures

Safety Data Sheet (SDS) (Digital)

**NATA**

**The Laminex Group Technology Centre**

**Test Report No. 2127778A**

**Date of Issue 19/01/22**

**Client: Laminex New Zealand - Taupo Plant 177 Central Drive, Rotokawa 3378, New Zealand**

Formaldehyde Emissions Certificate (Digital)

**CEETEC**

**Emission Test Certificate**

**Monday 07 May 2022**

**Location: Laminex New Zealand 177 Central Drive, Rotokawa 3378, Auckland, New Zealand**

**Sample Description: SuperPine Particleboard Flooring**

**Test Method: ASTM D5318-2017 (Based on ISO91 Laboratory - NATA Accreditation 1231)**

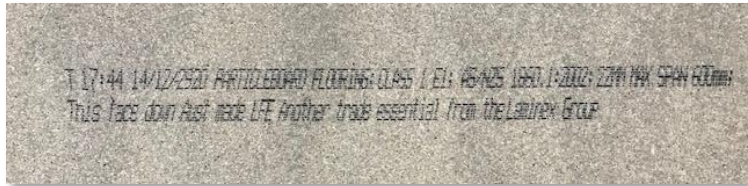
**Test Results: 4000 mg/m³ (Total Organic Compound Emission Rate) and 0.000 mg/m³ (Total Volatile Organic Compound Emission Rate)**

VOC Emissions Certificate (Digital)

All documents can be downloaded at [laminex.co.nz](http://laminex.co.nz)

# StrandfloorH3.1® | Strandfloor® | SuperPine® - Product ID

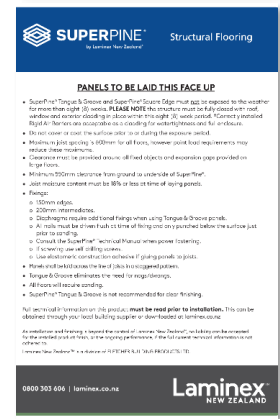
- All panels come with a label on the top face & printing on the reverse face.
- Packs identified using a cardboard banner.
- Panels to be installed label face up.



Ink Jet Mark | Julian Printing – Showing Product ID & Manufacturing Traceability No.



Cardboard Pack Banners | Tongue & Groove and Square Edge



Top Face Label



strandfloor®

strandfloor®



strandfloor®







**SUPERPINE™**

by Laminex New Zealand™





**SUPERPINE™**

by Laminex New Zealand™



# SuperPine® | Exposure Testing



WINTER 2022 | TAUPO

strandfloor®



**SUPERPINE**®

by Laminex New Zealand™

# STRUCTURAL FLOORING INSTALLATION

APRIL | 2023

# Installation Tools & Materials



# StrandfloorH3.1<sup>®</sup> | Strandfloor<sup>®</sup> | SuperPine<sup>®</sup> Installation & Jargon



I-Beam



Pozi Strut

Joists      Nog or blocking



Steel



LVL (J-Frame)



Solid timber

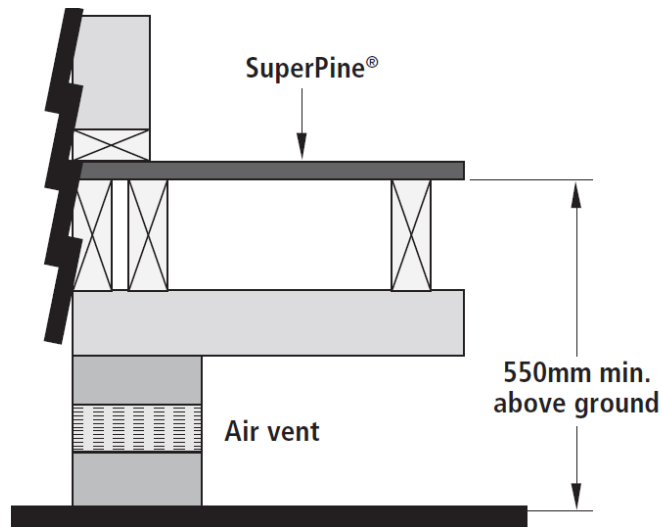
- Maximum Joist span is 600mm centres – 450mm span would be most common
- Building code allows for joists minimum 100mm in width, this would be rare now and 150mm would be most likely the minimum.

# StrandfloorH3.1<sup>®</sup> | Strandfloor<sup>®</sup> | SuperPine<sup>®</sup> - Installation & Jargon

## Subfloor Terminology | Minimum ground clearance for StrandfloorH3.1<sup>®</sup>, Strandfloor<sup>®</sup> and SuperPine<sup>®</sup>

NZS 3604 / NZBC states:

- 550mm to underside of floor panel.
- Minimum crawl space in a sub-floor area is 450mm, and the minimum joist thickness is 100mm = 550mm



# StrandfloorH3.1® | Strandfloor® | SuperPine® - Fasteners & Adhesives

Adhesive Options		
Timber Joists	Sika Nailbond® Premium	5mm continuous bead to the top of each joist and between sheets at ends and edges, 2mm bead to the top of the tongue.
	Bostik Alpha Grip	
	Gorilla Grip	
	HB Fuller Sturdi Bond™	
Steel Joists	Sikaflex® 123 Bond	
	Gorilla 940FC	
	Gorilla MS Sealant	

**Note:** Check with adhesive supplier to ensure adhesives not listed are suitable.

- While gluing is not mandatory in NZ, Laminex strongly recommend gluing panels to joists and nogs.
- Gluing keeps the flooring panels in contact with the joists if they shrink or twist, which helps prevent floor squeak.
- For steel joists, 10 gauge x 40-45mm tek screws are suitable.

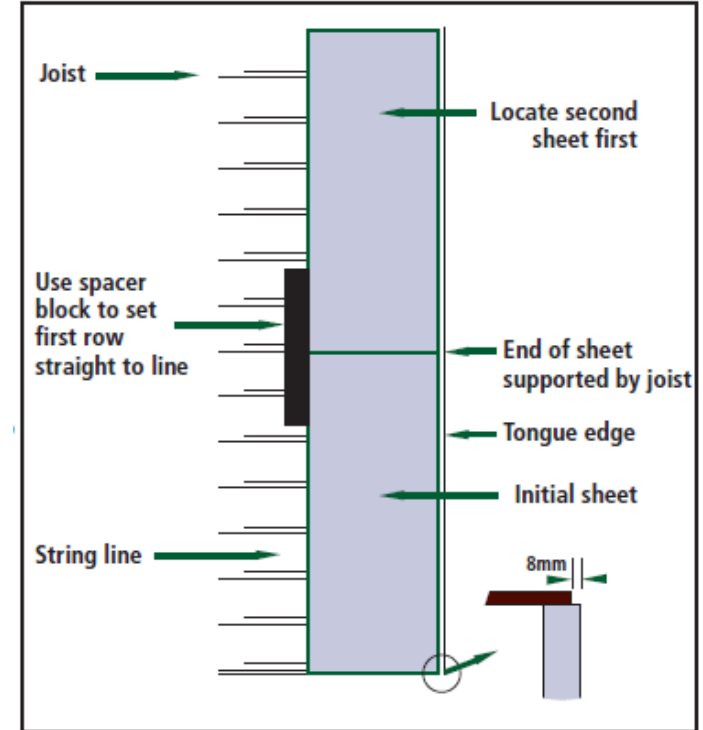
Fastener Types						
Timber Joists (incl. SG8, LVL8 & I-Beams)	Minimum Size	Fixing Centres mm		Diaphragm (NZS3604)		
		Perimeter	Inter.	Sq. Edge	T&G	
<b>Annular Grooved Particleboard Flooring Nails</b>	60 x 3.1	150	200	✓		
<b>Galvanised Jolt Head Nails</b>	60 x 2.8 / 3.1	150	200	✓		
<b>Self Drilling Screws Corrosion Resistant</b>	45mm x 8 gauge	150	200			
<b>Simpson Strongtie SS Screw</b>	50mm X 10 gauge (SSWSC2BSA10)	150	200			
<b>Simpson Strongtie Zinc Screw</b>	50mm x 10 gauge (WSV50SA)	150	200	✓	✓	
<b>Beck Scrail SubLok Pro</b>	57mm x 2.8 gauge	150	200			
<b>Delfast Round Head Coil Nail</b>	50mm x 2.8 gauge	150	200			
Steel Joists						
<b>Self Drilling Corrosion Resistant Tek Screws</b>	45mm X 10g Tek	150	200			

**NOTE**  
Nails cannot be used for Tongue & Groove diaphragm floors



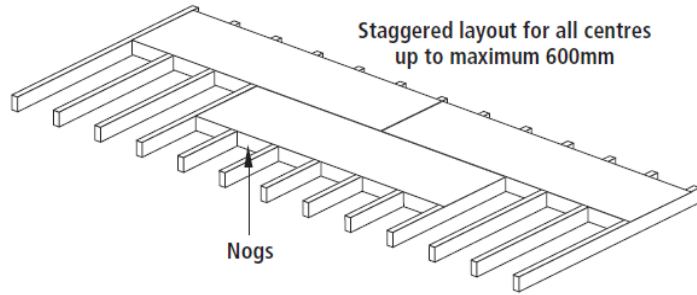
# Flooring Installation | Tongue & Groove

- Panels shall always be laid across the joists. Lay with brand name / printing down. (Refer figure to right for panel orientation).
- Ends of sheets should be close butted and centred over joists. Check the grooved edge for straightness with a string line.
- Fix panels with only sufficient fastenings to avoid movement – this will stop any distortion of the grooved edge prior to further installation.
- Lay a blocking piece (an off-cut of minimum ex 150 x 50 timber 1.4m long) across the joists, in the centre of the panel, on the grooved edge.
- Stand on the blocking piece and strike with a heavy hammer to drive the panel tongue into the groove of the first row.
- Stand on the blocking piece and strike with a heavy hammer to drive the panel tongue into the groove of the first row.



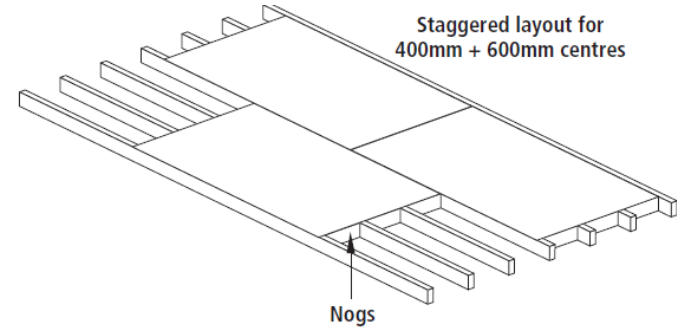
# Flooring Installation | Square Edge

## Staggered Layout | Centres Up to Max. 600mm



- Apply 5-7mm continuous bead of adhesive along joists and perimeter joist / blocking.
- Install first sheet starting from one corner, fix off along sheet edge working from one end, then along joists.

## Staggered Layout | Centres 400mm + 600mm



- Repeat with following sheets along the first row.
- When first row is installed, start installing second row, sheet end joins must be staggered.

# StrandfloorH3.1® | Strandfloor® | SuperPine® - Floor Finishing

- StrandfloorH3.1®, Strandfloor® & SuperPine® panels provide the ideal substrate for most types of floor finishes
- All floors require sanding prior to covering or coating
- After the building is finished and before occupation panels shall be finished with floor covering such as carpet, vinyl, ceramic tiles or a coating
- Prior to applying floor finishes nail shall be punched & screws tightened
- Laminex do not recommend laying vinyl direct to StrandfloorH3.1®, Strandfloor® or SuperPine®

**SuperPine is NOT suitable for use in wet areas such as bathrooms and shower zones. In these applications, Laminex recommends StrandfloorH31®.**

Floor Sanding			
Surface Finish	Cut	Sander Type	Paper Grit
Clear Coating	First	Drum	60 - 80
	Second	Disc	100
	Third	Disc, Sander	120 - 150
Other Finishes	Single	Drum / Belt	60 - 100
(Carpet, vinyl, wet area membranes etc.)			

# StrandfloorH3.1<sup>®</sup> | Strandfloor<sup>®</sup> | SuperPine<sup>®</sup> - Storage & Weathering

- Store inside in dry conditions.
  - Onsite – allow to weather as per exposure times - up to 8 weeks for Strandfloor<sup>®</sup> / SuperPine<sup>®</sup> and up to 12 weeks for StrandfloorH3.1<sup>®</sup>.
  - After rain - sweep any ponding water of the surface (may have to do this daily if rain continues).
  - Leave in a raw condition to weather and keep panels clear to allow the release of absorbed moisture.
  - Storage & onsite – Breathable type covers can be used but must be kept clear of the panels to allow air to circulate under the cover.
- **DO NOT** use a liquid sealer to protect the flooring, this seals in moisture and can accelerate panel deterioration.

strandfloor®



SUPERPINE®

by Laminex New Zealand™

For full details on handling, storage and installation of either StrandfloorH3.1® , Strandfloor® or SuperPine® - please refer to the respective Technical Manual for these products. These manuals can be downloaded at [laminex.co.nz](https://www.laminex.co.nz)

© Copyright 2023, Strandfloor® logo, Strandfloor® Square Edge, Strandfloor® Square Edge logo, Strandfloor® Tongue & Groove, Strandfloor® Tongue & Groove logo, StrandfloorH3.1® Tongue & Groove, StrandfloorH3.1® Tongue & Groove logo, StrandfloorH3.1® Square Edge, StrandfloorH3.1® Square Edge logo, SuperPine®, SuperPine® Square Edge, SuperPine® Tongue & Groove are trademarks of Fletcher Building Holdings and used under licence by Laminex New Zealand™, a division of Fletcher Building Products Ltd.