

# COMBINING STYLE WITH PERFORMANCE

Walnut Stained Strandboard Floor - Photograph courtesy of Eon



**STRAND  
BOARD**



## A beautiful relationship. . . style with performance

Strandboard is a high-density substrate, which blends practical and creative elements together for a variety of uses in residential and commercial applications. When you need to cover large areas quickly and provide a more rigid floor surface, choose Strandboard™ Tongue and Groove to give an excellent base for tiles, carpet or vinyl. Or use Strandboard Square Edge when a clear finish is required. With Strandboard, you'll experience the benefits of timber, providing warmth underfoot and a forgiving surface. Often, Strandboard is used effectively on decorative wall panels, ceilings and stairway construction.



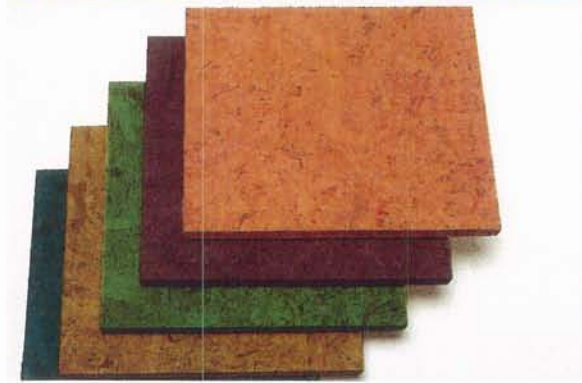
## Exceptional performance

Strandboard's high density means it is second to none for impact resistance. However, its low weight to density ratio makes it the lightest and strongest sheet flooring product on the market. It's made from timber flakes rather than chips, so the products has strength and durability. So it's the perfect choice for commercial applications. Create a robust finish with a rich ambience for heavy traffic areas such as bars, retail showrooms and gyms.



## The key to your success

Strandboard is the key to success in saving time, money and your reputation. Available in a range of sheet sizes and thicknesses, there is a Strandboard size to suit, making your projects cost effective and quick to install. The sheets can be nailed or screwed directly onto joists or an existing substrate. Strandboard's manufacturing process is highly sophisticated and carried out under stringent quality controlled conditions. This enables our customers to have peace of mind in guaranteed performance delivery.



## Innovate with confidence

For an enviable, stunning result on floors, walls and ceilings or stairways, simply complete with a stain or colour wash of your choice. The colour will dramatically enhance the decorative nature of Strandboard, providing an affordable way to create a variety of looks, from urban cool to sophisticated chic. Leave Strandboard unsanded for extra pattern definition.



## What others have to say . . .

Kerry Avery, Avery Team Architecture Ltd, Auckland  
"Strandboard's striking textured appearance looks stunning when it is colour washed and used for ceilings. We specified colour washed Strandboard for the Textilia and Athena showrooms, with another prime consideration being the efficiency of the span size we could obtain from the sheets."

Peter Fonda, Grand Aarow Sports Floors, Brisbane  
"We're in the business of building robust and impact resilient floors to take on the rigorous activities of all indoor sports. The finished result with Strandboard always looks great and our clients are impressed with the structural performance, as well as the durability of the surface."

# Technical Information

## Applications:

- Strandboard™ Square Edge and Strandboard Tongue and Groove are suitable for installation in residential, commercial and industrial buildings as a single or double sheet flooring material.
- Strandboard Square Edge and Strandboard Tongue and Groove can be used as post laid flooring over timber or steel joists, as an overlay to concrete or wooden floors, for staircase construction or general industrial shelving or packaging.
- Strandboard Square Edge can be used as ceiling, wall panelling or as a decorative overlay.
- Strandboard meets the requirements of NZS 3604 (2000 revision) for sheet flooring when installed in accordance with the installation instructions.
- When Strandboard is specified for sports floors, contact JNL for specific details.

## Handling and Storage:

- Avoid damage to Strandboard face and edges.
- Always stack Strandboard horizontally, supported by gluts at 1200 mm maximum centers, laid on a flat, level and dry surface.
- For short term storage on site, protect Strandboard from direct weather exposure with tarpaulins or similar.
- To prevent moisture build up under covers ensure there is proper air circulation around the pack.

## Sheet sizes:

| Product Sheet                   | Sheet Size (mm)    | Weight (Kg) |
|---------------------------------|--------------------|-------------|
| Strandboard Square Edge         | 3.600 x 2.400 x 20 | 114.0       |
| Strandboard Square Edge         | 3.600 x 1.200 x 20 | 57.0        |
| Strandboard Square Edge         | 2.400 x 1.200 x 20 | 38.0        |
| Strandboard Tongue & Groove     | 3.600 x 1.200 x 20 | 57.0        |
| Strandboard Square Edge Overlay | 3.600 x 1.200 x 12 | 34.2        |
| Strandboard Square Edge Overlay | 2.400 x 1.200 x 12 | 22.8        |
| Strandboard Square Edge Overlay | 3.600 x 1.200 x 9  | 25.6        |
| Strandboard Square Edge Overlay | 2.400 x 1.200 x 9  | 17.1        |

## Panel Tolerance:

|             |   |
|-------------|---|
| Length:     | ±0.5mm  |
| Width:      | ±0.5mm  |
| Thickness:  | ±0.25mm   |
| Squareness: | The difference between the measured diagonals is no greater than 1.5mm. |

## Design considerations:

Strandboard Square Edge and Strandboard Tongue and Groove must not be used as a substrate for decking or flooring membranes or in spa-pool and sauna rooms. In addition, Strandboard Tongue and Groove must not be used as an uncovered floor solution.

## Exposure to weather:

- The recommended maximum period of exposure to weather is 8 weeks UF Resin (red branding on underside of sheet); 12 weeks MUF Resin (green branding on underside of sheet).
- This includes anytime the product is unprotected eg: during transport, site storage or construction period.

## Flooring:

### Installation of Strandboard Square Edge and Strandboard Tongue and Groove:

- Sub floor ventilation to be in accordance to NZS 3604.
- The moisture content of the timber sub floor must not exceed 15% at time of Strandboard installation. Excess moisture content will result in timber shrinkage and possible squeaking and popping of nail heads.
- Ensure that tops of joists form a flat and level surface.
- If perforated reflective foil is used, it must be dished over the joists before laying the flooring.
- Allow for a 10 mm edge clearance between sheet edge and any fixed object e.g. masonry walls, structural columns.
- Allow for 10mm expansion joints per 20 lineal metres of Strandboard.
- Support Strandboard edges around the entire sheet perimeter, block between joists where necessary.
- Sheet edges should be close butted.
- Strandboard Square Edge may be laid in either brick bond or stack bond pattern.

### Strandboard Tongue and Groove only:

- Sheets must be laid in a staggered brick bond pattern.
- Where rigid floor finished such as ceramic tiles are to be laid, fix nogs under the tongued point.
- Cut panels should span across a minimum of three joists.

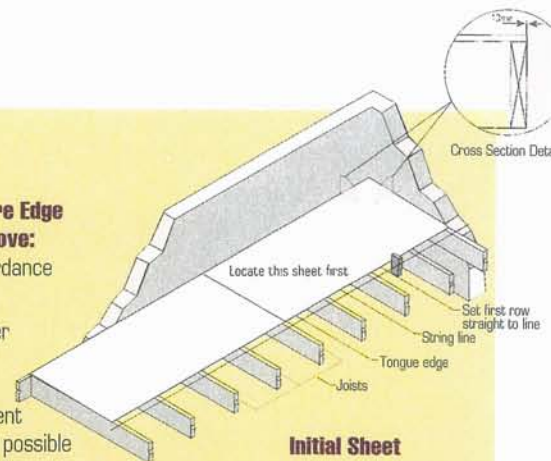
### Fixing:

- Use 60 x 2.8mm annular grooved particle board flooring nails or 60 x 2.8 mm hot dipped galvanised jolt head nails, or Senco GE 25 ASB 63mm (or similar) with air operated nailing tools, for fastening to dry joists and blocking.
- Fully nail to all joists and blocking at the time of initial laying.
- Slightly angled nailing in opposite directions is recommended to minimise squeak.
- Surfast (zinc chromate) 50 x 8 gauge screws may be used as an alternative to nails.
- Use 50 x 12 gauge tek self drilling (corrosion resistant) screws for fixing Strandboard to steel joists.
- Staples are not acceptable.

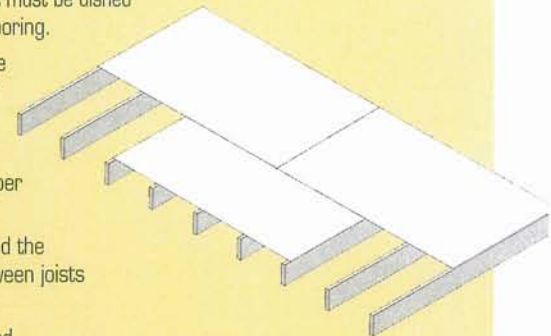
- Fixings should not be less than 10mm from sheet edges. Nails or screws should be at 150mm centers around the sheet perimeter and at 200mm centers along the intermediate lines of support.

### Overlays:

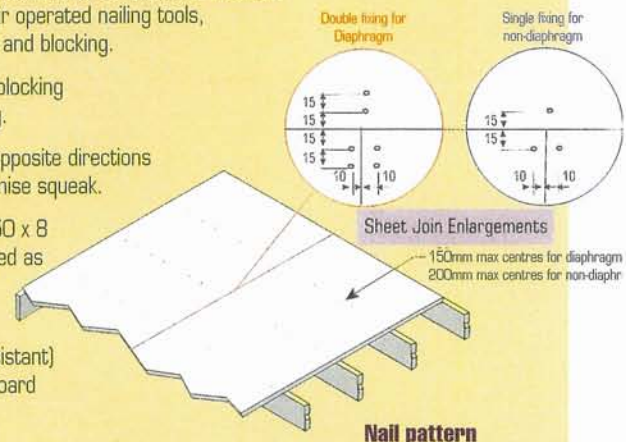
- Prior to installation sheets must be conditioned to ensure the sheets reach their moisture equilibrium before fixing to the floors. This can be done by putting the sheets into fillet to allow air circulation around both sides of the sheets for a minimum of 24 hours.
- Strandboard may be glued to a dry, dust free, wooden or particle board or a cured, concrete floor using Fosroc JAWS SM9200 or similar approved adhesive. A damp proof membrane must be installed under a concrete slab on grade in accordance with acceptable solution E2/AS1. If there is any doubt regarding the presence of dpc, the floor surface should be sealed with Fosroc Nitocote WaterPruf or similar approved sealer. These products can be obtained from building material suppliers with more product information available on [www.fosroc.co.nz](http://www.fosroc.co.nz).



Initial Sheet



Brick Bond



## Ceiling and Wall Panels

### Installation:

- Prior to installation sheets must be conditioned to ensure the sheets reach their moisture equilibrium before fixing to the ceilings or walls. This can be done by putting the sheets into fillet to allow air circulation around both sides of the sheets for a minimum of 24 hours.



- The moisture content of the timber in the ceiling or walls must not exceed 15% at time of Strandboard™ overlay installation.
- Ensure that the panel is laid with the sheet markings concealed.
- Ensure that tops of wall or ceiling studs form a flat and level surface.
- Allow for a 10mm edge clearance between sheet edge and any fixed object e.g. masonry walls, structural columns.
- For walls greater than 4m in length, 2mm expansion or control joints per 4m must be incorporated.
- If glue is used support Strandboard panel around the entire sheet perimeter, block between joists where necessary.
- Sheet edges should be close butted.

### Fixing:

- Refer to flooring.

## After installation:

- To ensure moisture can evaporate freely, do not apply sealers, tape or other impervious materials to unfinished panels while exposed.
- Occasionally individual Strandboard flakes may lift. Sanding at time of finishing will restore the board's surface.
- If using a clear finish later, keep the panels clean to avoid stains (e.g. soil, plaster, glue, paint, nails, timbers).

### Finishing:

- Punch nails just before sanding.
- The moisture content of the Strandboard must not exceed 15% when sanded, or when vinyl or floor coverings are laid or when polyurethane is applied.
- Strandboard having high moisture content will shrink as it dries out which may cause unsightly gaps at the joints.
- If excessive moisture is trapped in the Strandboard by finishing before the board is dried out, mould growth could occur.

- Strandboard Tongue and Groove flooring should be covered with floor coverings such as vinyl or carpet. If a clear polyurethane finish is required, it is recommended that Strandboard Square Edge be used.
- Protect Strandboard against heat sources such as freestanding stoves and open fireplaces.
- Protect Strandboard against accidental wetting by using an impervious layer such as polyurethane to manufacturer's specifications (Strandboard Square Edge only) or continuous vinyl flooring coved at intersection with walls. Extend protection under vanity units, w.c. pans etc
- Industrial and commercial applications may require additional protection in the form of hard wearing and impact resistant covering.

### Clear finishing only:

It is not recommended that Strandboard Tongue and Groove is clear finished.

- Strandboard coved and coated with moisture cured polyurethane is acceptable in bathrooms, toilets and laundries. Such areas are to be fitted with appropriate floor drains. The coving and polyurethane coating must be properly maintained to prevent water ingress into the Strandboard.
- If colour matching is important notify your supplier and take special care when laying the sheets to ensure the matching of batch numbers and production runs. Juken Nissho Ltd accepts no responsibility for colour variations.
- Refer also to the Strandboard sanding, coating and colour washing specifications prepared by:

Handley Industries Ltd  
PO Box 36025,  
Northcote, Auckland  
Ph: 09 444 4558  
Fax: 09 444 2761

or

Contact your local  
Resene store:  
Resene Paints Ltd  
www.resene.co.nz

### Floor coverings:

- For vinyls a matrix compound should be applied to ensure a suitable laying surface.
- For resilient floor coverings, level sand flooring and treat surface to supplier's specifications.

### Durability:

- When installed in accordance with the NZS 3604 and the Strandboard installation instructions Strandboard meets the 50 year performance requirement of the NZ Building Code B2 Durability.
- Please refer to BRANZ Technical Opinion on the durability of JNL Strandboard date 9 December 1993 - copies available from JNL.

### Safe work practices:

Health and safety precautions must be taken when working with wood products.

- Exposure to wood dust and/or formaldehyde may cause irritation to the eyes, respiratory system and skin. Wood dust may cause sensitisation resulting in asthma, and result in dermatitis by skin contact.
- Wood dust is classified as a known carcinogen. Repeated inhalation of wood dust over many years may cause nasal cancer.
- Strandboard Formaldehyde emissions meet the E1 class when tested in accordance with AS/NZS 4266.15:1995 Formaldehyde is classified as a probable carcinogen.
- Storage areas containing large quantities of Strandboard Square Edge and Strandboard Tongue and Groove must be adequately ventilated.
- Work areas must be well ventilated and kept clean. Sawing, sanding and machining equipment must be fitted with dust extractors to ensure dust levels are kept within standards laid down by Worksafe Australia, Occupational Health and Safety New Zealand, or the specific country of use. If not, a dust mask conforming to AS/NZS 1715 and AS/NZS 1716 and eye protection conforming to AS/NZS 1337 must be worn.
- Offcuts, shavings and dust must be disposed of in a manner that avoids the generation of dust and in accordance with the requirements of local waste authorities.
- In end use applications all product surfaces exposed to occupied space must be sealed.

Refer to the Material Safety Data Sheet available from either JNL or our website [www.jnl.co.nz](http://www.jnl.co.nz) and [www.triboard.com](http://www.triboard.com). Reference can also be made to Working Safely with Wood Panel Products published by the Department of Labour, Occupational Safety and Health, or Home Health Facts About Formaldehyde in Wood Composite Products published by the New Zealand Ministry of Health and BRANZ, available from Juken Nissho Ltd.



### Contact details:



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