

# DENDRO

NEW ZEALAND SOLID H3.2 PINE







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*From dendrochronology - the study of tree rings.*

Tree rings represent the core and strength of a tree, revealing its story.

Introducing a new breed of solid timber weatherboards produced from 100% New Zealand grown Radiata Pine. We use the finest mature pruned trees to create a quality, clear range of solid, non fingerjointed products that are strong, straight and stable for your home.

DENDRO is

- 100% New Zealand Radiata Pine
- Mature trees at about 30 years of age when cut in the forest
- Using the clear outside wood of the pruned log
- Sawn then dried in slow conditioning kilns releasing the stress and stabilising the timber
- Machined to a range of profiles from 135mm to 240mm wide
- Raw options can be stained see page 6
- Treated to H3.2 durability with a 25 year treatment warranty
- Sealed with oil based primer for added protection (raw option available)
- Stocked and distributed from three locations and available nationwide
- Cost competitive and longer lasting than alternatives
- Available in bandsawn (textured surface) and dressed (machined smooth) finishes



## Southern Pine & New Zealand Timber

New Zealand has a long tradition of using wood, building houses that stand the test of time. Heritage houses such as villas and bungalows used wood for cladding and exterior trimming because it looked good, was freely available and cost effective.

Southern Pine Products (SPP), est. 1999, is New Zealand's leading distributor and manufacturer of quality finished timber products.

At SPP we believe that quality starts with the raw material. We use the finest mature pruned trees to create a quality clear range of solid, non fingerjointed, weatherboard

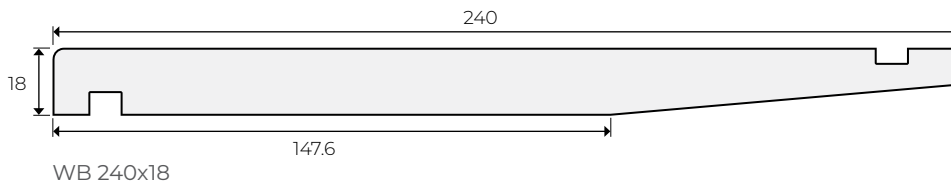
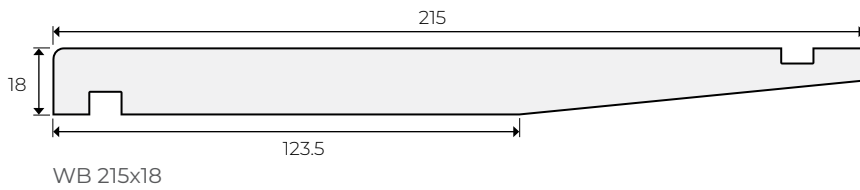
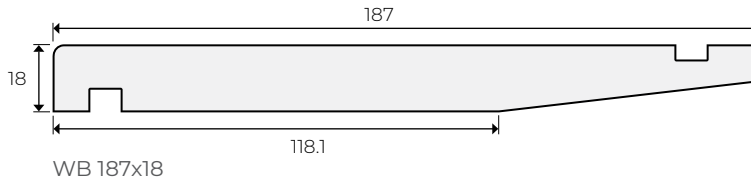
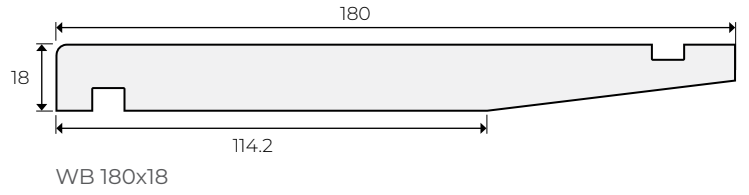
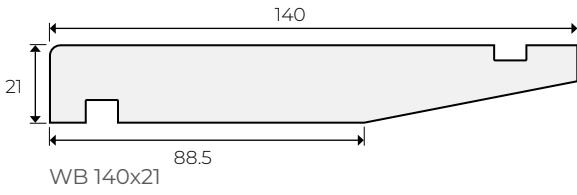
We produce a full range of timber products in solid, finger-joint and MDF. Products include jambs, mouldings, weatherboards, fascia, boards, dowel, and panelling made from sustainable New Zealand Radiata Pine.

SPP is part of a group of companies that provide full vertical integration from forest to marketplace. The journey starts with SPP Stillwater, our sawmill on the West Coast of the South Island, or at one of our other partner sawmills. Then on to SPP Manufacturing in Christchurch, where profiling, treating, and painting take place. SPP Distribution Centres are based in Christchurch and Auckland to enable efficient and timely supply to our building merchants.

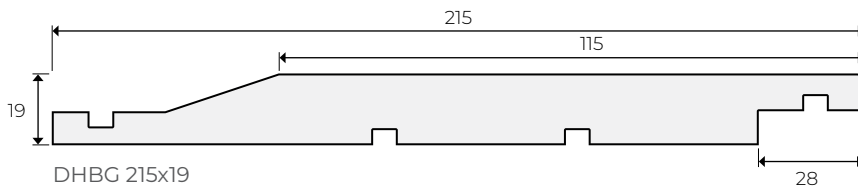
Full integration of the timber process means control over every step. The result, outstanding quality you can rely on.

## BEVELBACK WEATHERBOARD

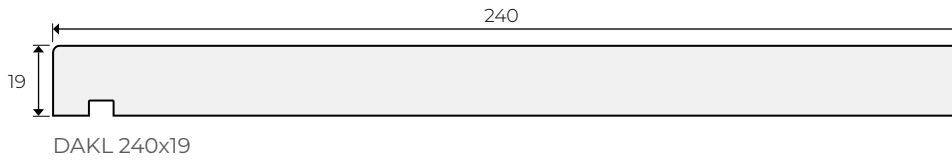
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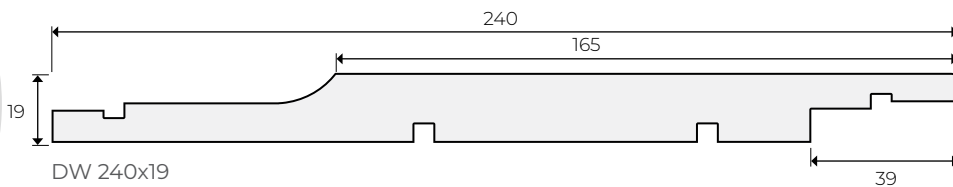
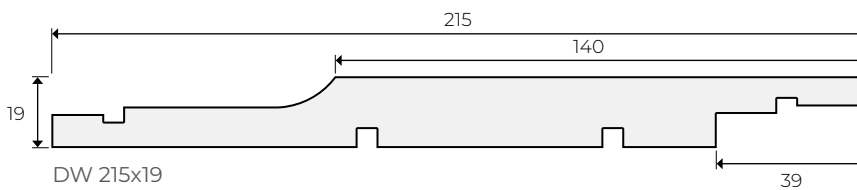
## GISBORNE/HAWKES BAY WEATHERBOARD



## AUCKLAND SQUARE WEATHERBOARD

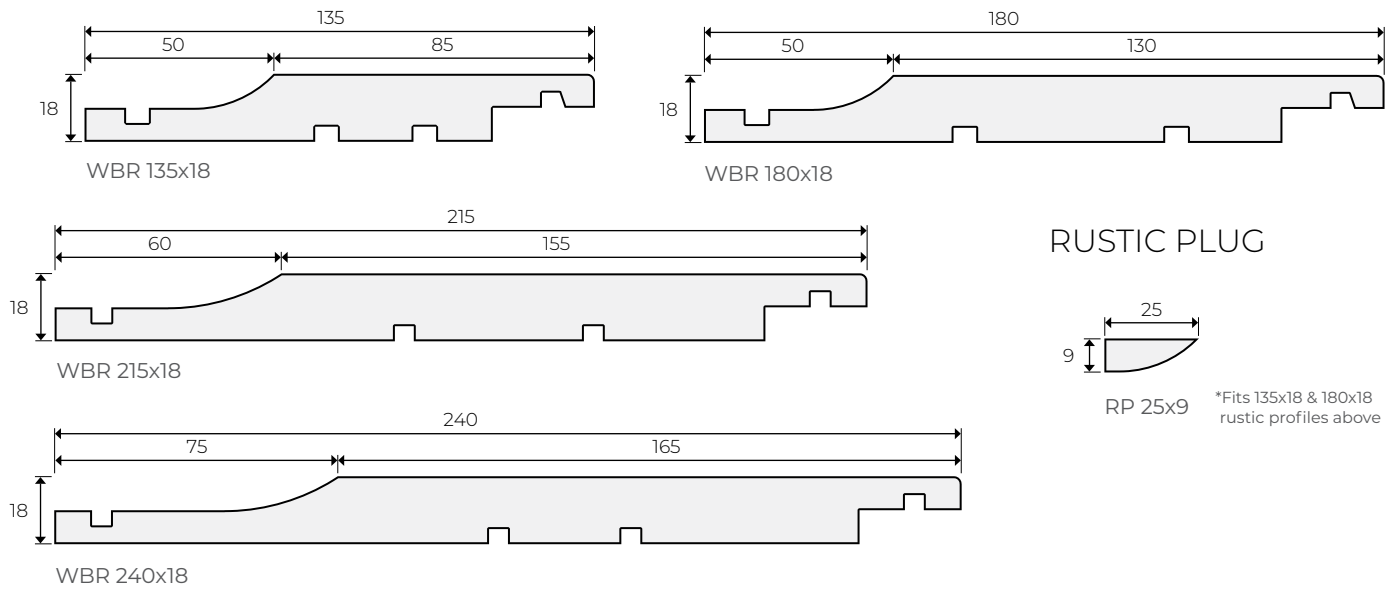


## WELLINGTON WEATHERBOARD

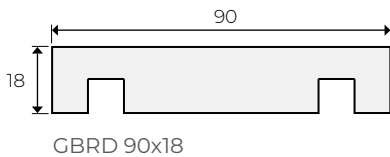
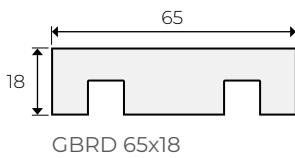
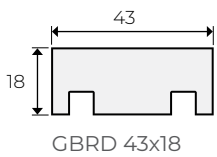


## SCALLOP RUSTICATED (RUSTIC) WEATHERBOARD

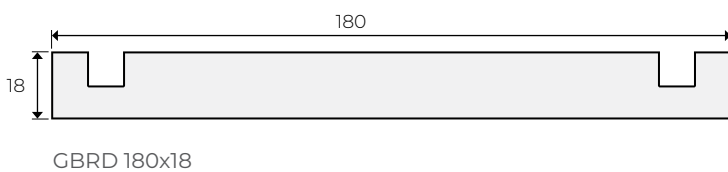
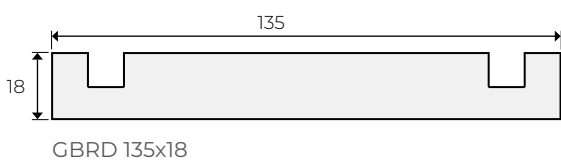
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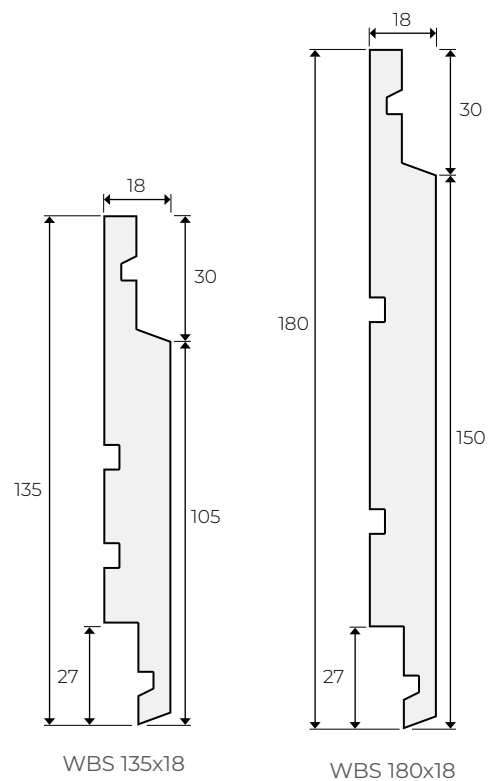
## GROOVED BATTEN



## GROOVED BOARD



## VERTICAL SHIPLAP WEATHERBOARD



Weatherboards available unpainted on request  
 Grooved board and battens available dressed or bandsawn face  
 Bandsawn products have a rough texture so the actual thickness is between 18-19mm

# BUILDING WITH SOLID TIMBER

SPP DENDRO is H3.2 treated, solid timber products which are supplied in both pre-primed and un-primed states. Unpainted timber products treated to H3.2 may be used in external applications and in accordance with NZ 3602:2003 sections 110 and 111. **Pre-primed DENDRO weatherboard have factory applied alkyd oil-based primer.** To ensure the best protection ensure that at least one additional alkyd primer/undercoat is applied on site followed by at least two quality acrylic finishing coatings to complete weather proofing.

**Note:** H3.2 has a green (copper) tinge which fades over time. Product requiring staining may be affected by the H3.2 solution.

## 1. GRADES AVAILABLE

- SPP DENDRO solid weatherboards are sourced from pruned log, providing a premium Clear 2 weatherboard (small knot, resin pocket, or other tight defect may be present).

## 2. PROFILE CHOICE

- Careful consideration during the design process should be given to the choice of profile, the size (width) of the board and the subsequent surface coating to ensure best results against prevailing weather and exposure conditions at the site. Refer SPP full product brochure or our website for profile options.
- Rusticated, shiplap, square dressed and bevel back profiles available in both dressed finish and bandsawn finish.
- SPP weatherboards have been manufactured in accordance with NZ3617 standard.

## 3. HANDLING

- SPP weatherboards and other products should be unloaded by hand, or with a Hiab forklift. Do not tip these products from a truck. Avoid scratching the face of the board, and always carry individual boards with their long sections upright to avoid excessive bending.

## 4. STORAGE

- SPP weatherboards must remain dry at all times prior to installation. Product should be stored indoors on a flat surface, with gluts at 1m centres and at least 150mm off the ground.
- Avoid direct sunlight and protect from both rain and ground moisture uptake. If storing outside use a secondary waterproof cover and groundsheet whilst allowing for good air circulation.

## 5. ACCLIMATISATION

- At the time of installation, the cladding moisture content must be near the average moisture content

which can be expected at site (typically 10% – 16% depending on the location and the time of year). Please allow approximately 3-5 days for the cladding to acclimatise before installation.

## 6. DIMENSIONAL CHANGE

- Timber is hygroscopic (absorbs moisture from the atmosphere) and will take up and release moisture until it reaches the equilibrium moisture content (EMC) with the surrounding environment. During this process, which is ongoing, the timber expands and contracts and thus some dimensional change will occur. This will be minimised by the application of a quality paint system.

## 7. WEATHERBOARD MOVEMENT

- Timber weatherboards are designed to accommodate moisture, thermal and seismic movement in the board laps. **DO NOT USE ANY SEALANTS OR GLUES** between the boards or board laps, as this may inhibit the natural expansion and contraction of the cladding.

## 8. LAPLINES

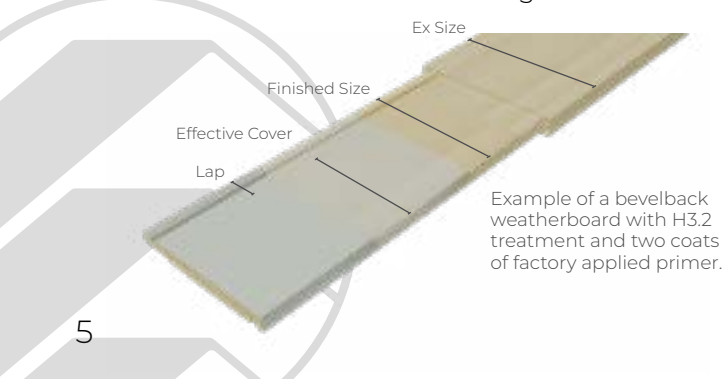
- To avoid laplines which may occur, particularly on wider profiles, pre-paint the top 40mm of Bevelback profiles and the top 30mm of Rusticated profiles in the same colour as the intended topcoat finish.

## 9. SPP WEATHERBOARDS INSTALLATION

Weatherboard must be installed as per the current building code and BRANZ recommended good building practices.

### SPP tips for lasting quality and protection:

- Ensure a quality building wrap is used correctly
- Bevelback weatherboards can use EZYSCRIBE pre-cut scribe as a storey rod. Timber facings combined with scribes/plugs look good and offer additional protection against the elements.
- Seal all cut ends with two coats of oil-based exterior primer
- Single nail all weatherboard profiles, regardless of size. Nailing boards together will likely result in split boards.
- SPP recommend the use of 304/316 Stainless Steel fixings (or durable equivalents, such as silicon bronze) in accordance with the NZ Building Code 50 year durability requirement when used with H3.2 CCA treated timber
- Refer to nail chart for correct nail type and size
- Never nail through laps. Nails should be fixed approximately 10mm above the board below
- Nail at a minimum of 600mm centres.
- Punch nails, putty over and spot prime immediately to avoid moisture penetration.
- Leave a 2mm gap between rebated profiles (such as rusticated or shiplap) to allow for expansion and contraction.
- Ensure non-rebated profiles, such as bevelback, have a lap of 32mm (min) to 42mm (max)
- Angle mitre joints away from the prevailing wind at the site and/or use flat soakers.
- Ensure weatherboards, once installed, are at least 150mm from the ground and 100mm from decks and terraces.





## 10. FINISHING AND PAINTING

- Painting should take place as soon as possible after installation. If boards have been exposed for longer than 4 weeks, some sanding and re-priming may be required.
- Check the moisture content of the boards before painting. Equilibrium Moisture Content (EMC) should be at 16% or less. Use a correctly calibrated moisture meter to check.
- Once installed, remove all loose material such as dirt from the surface. Spot prime any exposed timber with 2 coats of water base exterior primer.
- Spot prime the filled nail holes.
- Once prepared, apply one coat of oil-based primer/under coat followed by two full coats of 100% premium acrylic low gloss house paint to the manufacturer's specification, at 12-14m<sup>2</sup>/L.
- Once applied, the two topcoats should have a combined thickness of no less than 50 microns.
- The onus is on the painter to ensure that the primed surface remains well adhered to the timber substrate and is a suitable base for the subsequent topcoats. This is particularly important where the boards have been exposed for longer than 4 weeks before top coating.
- Refer to AS/NZ 2311 guide to painting buildings.

### Weatherboard Conversion Chart

Profile	Ex Size (mm)	Finished Size (mm)	Effective Cover (mm)	L/M per m <sup>2</sup>
Bevelback	150x25	140x21	108	9.25
	200x25	180x18	148	6.75
	200x25	187x18	155	6.45
	225x25	215x18	183	5.47
	250x25	240x18	208	4.80
Gisborne/Hawke's Bay Bevelled Rustic	225x25	215x19	189	5.29
Auckland Square	250x25	240x19	208	4.80
Wellington Rustic	225x25	215x19	179	5.62
	250x25	240x19	203	4.93
Rusticated	150x25	135x18	110	9.09
	200x25	180x18	155	6.45
	225x25	215x18	190	5.26
	250x25	240x18	215	4.65
Vertical Shiplap	150x25	135x18	110	9.09
	200x25	180x18	155	6.45
Board + Batten	150x25	135x18	142 (Combined cover)	7.04 (of each item is required per m <sup>2</sup> )
	75x25	65x18		
Board + Batten	200x25	180x18	187 (Combined cover)	5.35 (of each item is required per m <sup>2</sup> )
	75x25	65x18		

## 11. RESIN BLEED

- Resin bleed is a natural by-product of Radiata weatherboards, which occurs occasionally. The choice of a light top colour and a correctly applied quality paint system will help to minimise this occurrence.
- SPP makes every effort to source non-resinous lumber and identify resin pockets during the manufacturing process, however we do not warranty against this natural feature.

## 12. COLOUR CHOICE

- Dark colours absorb heat from the sun and may cause excessive movement, distortion and possibly resin bleed. Light colours reflect the sun's heat. Therefore, only light colours only with a light reflectance value (LRV) of greater than or equal to 45% may be used. Refer paint colour charts for details.

*This information is supplied in good faith, and we recommend the installer and painters familiarise themselves with all relevant building and painting codes. Builders using weatherboards should purchase the BRANZ Good Practice Guide for Timber Cladding, a comprehensive detailing and installation guide.*

*Southern Pine Products will not be liable for any losses incurred resulting from the failure to adhere to good building and painting practices. Although every effort has been made to ensure the information in this data sheet complies with existing building standards and recognised codes of practice, no responsibility is accepted for any errors and omissions nor for any specifications or work based on this information.*

### Nail & Screw Sizes for Timber Cladding

Profile	Stainless Steel Nail (Plain Shank)	Stainless Steel Jolt Screw
Bevelback	75x3.15mm	75x8G
Rusticated	60x2.80mm	60x8G
Vertical Shiplap	60x2.80mm	60x8G
Board + Batten	60x2.80mm	60x8G
	75x3.15mm	75x8G

\*When installing with a cavity increase the nail length to suit.  
NOTE: Stainless Steel fixings are a legal requirement for H3.2 treated timber products used for cladding.

### Dressed vs Bandsawn



Dressed Face

Band Sawn Face



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