





A misty forest scene with tall, slender trees and a large rock in the foreground. The text is overlaid on this background.

## **Fluid Wood Products is the leading project specialist timber exporter from New Zealand.**

Our business is manufacturing and exporting the highest quality New Zealand wood products for the most competitive prices.

We custom manufacture a wide range of timber, and complimentary products, specializing in high quality decking.



# New Zealand Pine

New Zealand pine offers a number of advantages over both competing softwoods and also hard wood options.

Although most people choose pine timber because of its competitive pricing, our decking has other favorable qualities that make it the best choice in decking:

## Durability

Our New Zealand Radiata pine is one of the few species of timber that accepts a full penetrative chemical treatment. This means that we can chemically treat the timber to protect against rotting, fungi and decay.

## Workability

As pine is part of the soft wood family, it is extremely easy to cut, drill and work. Installation is faster and easier than with hardwoods.

## Long Lengths

As the rain forests decline, the more desirable trees that produce traditional hardwoods in long lengths are harder and harder to find. This means that a lot of hard wood is only available in short lengths, or random length at best. Our pine comes in long, select length packets ensuring efficiency on site.

## Staining

Pine easily accepts staining and can be colored or finished in any way you like. Pine can be stained and polished to mimic any type of timber required.

## Guaranteed

All Fluid Wood Products treated timber decking comes with a full 25 year warranty against fungal decay and rot.

## Renewability

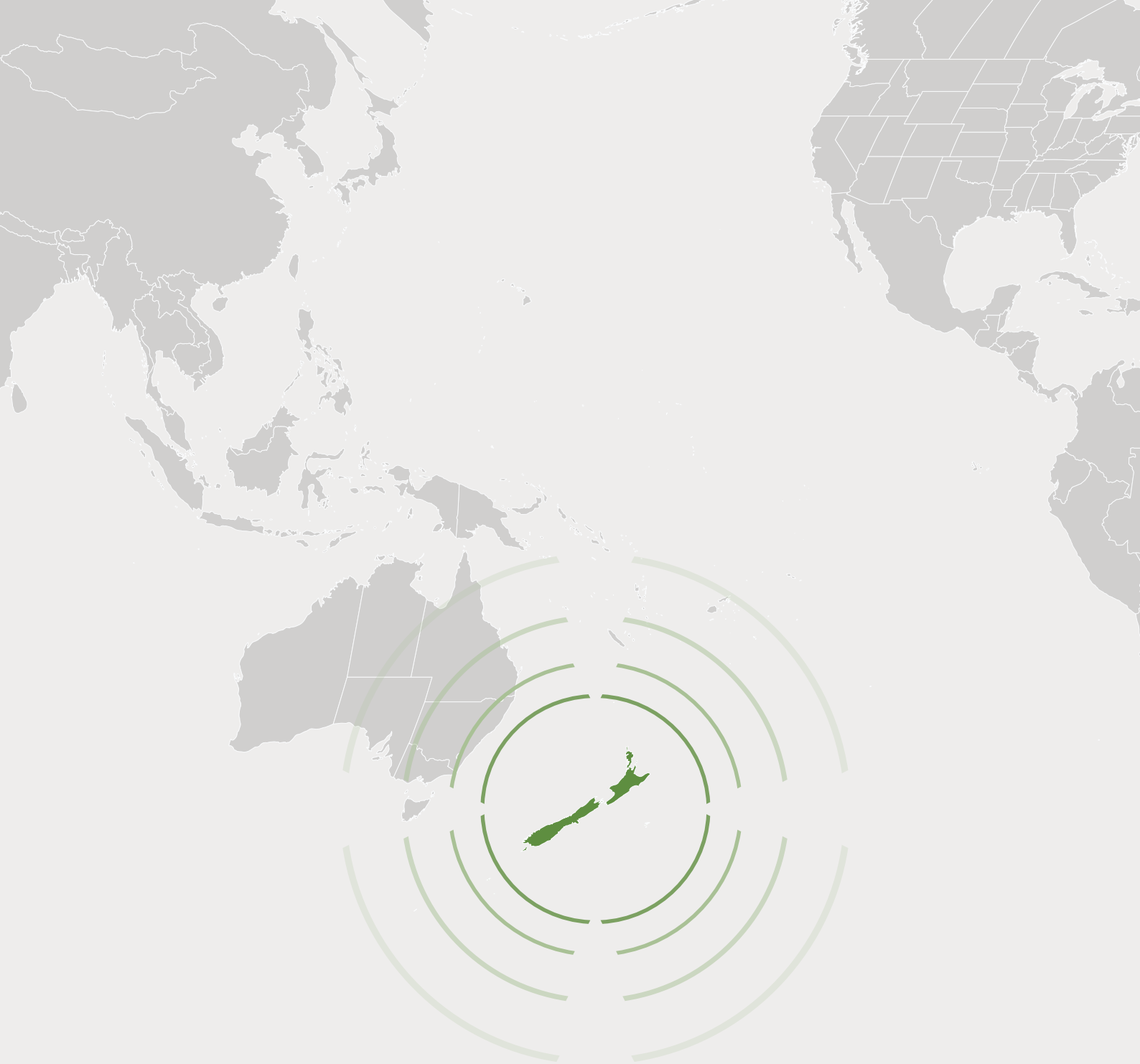
All of our pine is grown using sustainable silver culture practices – this means that every pine tree is planed to be harvested, and replanted once cut for processing. No rainforests will be harmed in the making of your deck!

## Human and buggy friendly!

As pine does not heat up in the sun as much as some darker hardwoods, it is much easier to walk on in bare feet. Also as pine is softer in nature it is much quieter with bicycle or buggy traffic.

## Quality

All of our pine products are manufactured according to the strict New Zealand standards and quality control.



## Amazing Supply

New Zealand pine offers a number of advantages over both competing softwoods and also hard wood options.

Although most people choose pine timber because of its competitive pricing, our decking has other favorable qualities that make it the best choice in decking:

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# Capabilities

## Project Based

Fluid Wood Products is a project based company. This means we specialise in supplying timber products from our New Zealand processing plants direct to the end user or construction projects. Our project team is made up of experienced timber industry experts, project managers and engineers who work together to design, optimise and supply our clients projects with cost effective and efficient quality timber solutions.

## Timber Product Development

Fluid Wood Products is an innovative and progressive company that is developing timber based solutions to replace standard non timber products. Fluid Wood Products currently re-invests a large proportion of its revenue into research & development and are developing global patents for these innovative and unique products.

## Shipping and Financial Solutions

Fluid Wood Products negotiate directly with shipping lines and leverage off large export volumes to offer clients the most competitive freight rates. We offer tailored financial trade solutions such as 360day LC and vendor finance options to integrate with our clients' project cashflow requirements, and we work closely with the New Zealand Government and major global banks.

## Our Wood

New Zealand Radiata pine is an extremely versatile wood and can be processed differently to achieve great performance in many areas of construction. The information below is intended as a rough guide and is not a definitive manual for specification. If you have any queries on which timber to use for your project, please contact a member of the Fluid Wood Products team for more information.

## Poles

We offer a wide range of timber poles for construction, both onshore and in the marine environment. Our poles are naturally tapering Radiata pine logs that are debarked, peeled and chemically treated to last long term in their intended environment.

## Timber grading

Our timber grading falls into two categories: machine grading and visual grading. All of our timber apart from cut of log is visually graded and sorted according to a number of different visual rules depending on which grade is being targeted. Each grade has set rules about the maximum amount of knots, pith, wane and other defects. Machine graded timber is first visually graded to make sure it meets the visual requirement of the grade, then its passed through either a sonic grader or a mechanical grader to determine the strength of each piece of timber. Once it has been machine verified, each timber is sprayed with a paint mark to denote the MSG (machine stress grading) rating of the wood.



## Treatments

Radiata pine is extremely receptive to chemical treatments and can be treated to last in a wide range of applications. We have the capacity to treat timber in all hazard classes (from H1.2 through to H6) in CCA (Copper Chromium Arsenic), LOSP (Light Organic Solvent Preservative) Boron and ACQ (Alkaline Copper Quaternary). When treated correctly, Radiata pine can last in excess of 50 years in most environments with proper maintenance. For more information please check our treatment guide on page 8.

## Finishes

We offer most sizes of our timber in a number of different finishes:

Rough sawn – the standard sawn finish as the timber comes out of the mill.

Machine gauged – our planed finish, machine gauged gives a smooth, easy to handle and work with finish.

Grip tread – machined smooth on one side with longitudinal grooves on the other. Grip tread is an attractive solution for outdoor decks and jetties.

Rougher header – similar to machine gauged, but with a fine rough tread profile.

Profiled – we can profile our timber to almost any shape. Check out our mouldings information on page 23 for more information.

## Handling

As almost all of our timber is treated, it should be handled with care in all situations, but especially when being man handled:

Always wear gloves when handling treated timber.

Re-treat exposed cuts or holes with an appropriate preservative.

Do not burn off cuts, as the fumes can be harmful.

Also please take note to store dried timber undercover, and avoid leaving wet timber un-packed and exposed to the weather. Failure to do this may cause the timber to warp and twist as moisture levels change. Please contact us for a material safety data sheet (MSDS)

For more information if you do not have one.



# Custom Processing & Treatment Guide



## Timber treatments

- ▶ Hazard Classes H1.2, H3.1, H3.2, H4, H5 and H6
- ▶ Green LOSP, Clear LOSP, CCA, ACQ and Boron treatments



## Design

- ▶ Value engineering
- ▶ Structural engineering
- ▶ Quantity surveying
- ▶ 3D Design
- ▶ Estimation
- ▶ Project Management



## Prefabrication

- ▶ Drilling & gaining
- ▶ Slotting
- ▶ Cut to length
- ▶ Optimising
- ▶ Frame and truss manufacture
- ▶ Plastic coating
- ▶ CNC Machining
- ▶ Sand Blasting



## Timber Processing

- ▶ Custom sawmilling
- ▶ Pole processing
- ▶ Pole machine rounding
- ▶ Pole scalloping
- ▶ Machine stress grading
- ▶ Visually grading
- ▶ Machine gauging
- ▶ Profiling
- ▶ Finger jointing
- ▶ Kiln drying
- ▶ Air drying
- ▶ Pre-priming









## Logistics

- ▶ Consolidation
- ▶ Container loading
- ▶ Specialised packaging
- ▶ Shipping
- ▶ Documentation
- ▶ Air Freight

Modular Supply



Hazard Class	Exposure	Service Conditions	Biological Hazard	Chemical Type	Typical Uses
 H1.2	Protected from the weather, above ground, but with a possibility of exposure to moisture	Protected from weather, but with a risk of moisture content conducive to decay	Decay	Boron	Wall framing
			Fungi		
			Borer		Roof trusses in dry climates
 H3.1	Exposed to the weather, above ground	Periodic wetting, not in contact with the ground. Protected with paint or stain	Decay	Light organic solvent preservative (LOSP)	Cladding
			Fungi		Fascia
			Borer		Joinery
					Framing
 H3.2	Exposed to the weather, above ground or protected from the weather but with a risk of moisture entrapment	Periodic wetting, not in contact with the ground, more critical end uses	Decay	Copper Chromium arsenic (CCA)	Wall framing
			Fungi		Roof structure in moist climates
					Decks
					Pergolas
			Borer		External beams and posts not in the ground
 H4	Exposed to the weather, in ground or in fresh water	Ground contact, conditions of severe or continuous wetting	Decay	Copper Chromium arsenic (CCA)	Fence posts
			Fungi		Landscaping timbers
			Borer		Decking
 H5	Exposed to the weather, in ground or in fresh water	Ground contact, conditions of severe or continuous wetting, where uses are critical, where a higher level of protection than H4 is required	Decay	Copper Chromium arsenic (CCA)	House piles
			Fungi	Copper Chromium arsenic (CCA)	Poles
			Borer	Alkaline Copper Quaternary (ACQ)	Crib walling
			Marine Borer		Posts in ground for decks, verandas, pergolas
 H6	Exposed to weather, in ground or in salt water or more corrosive environments	Ground contact, conditions of severe or continuous wetting where exposed to the marine environment or other more aggressive environments	Decay	Copper Chromium arsenic (CCA)	Marine piling
			Fungi	Copper Chromium arsenic (CCA)	Jetties
			Borer	Alkaline Copper Quaternary (ACQ)	Fenders
			Marine Borer		Construction in geothermal active areas





# Decking Grades

Our high quality pine decking comes in four selected visual grades. All of our decking is treated to last, and the different grades are purely aesthetic variations.



## Elite Clear

Our highest quality clear faced decking. This grade has no knots or defects in the best face and is perfect for high-end applications.

**Available in:** 4.8m and 5.4m lengths as standard.

*Other sizes available to custom order.*



## Select

Very similar to the Elite clear grade but with some small, attractive knots and natural defects allowed. Also suitable for high end applications, but where some character in the timber is desirable.

**Available in:** 4.8m and 5.4m lengths as standard.

*Other sizes available to custom order.*



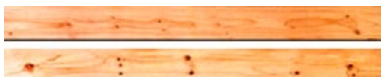
## Premium Economy

For those projects where the budget is tight, this grade is perfect for saving some money whilst still providing an attractive and reliable decking alternative.

Some knots and attractive defects are allowed but these are limited in size and number per board.

**Available in:** 4.8m, 5.4m 5.8m and 6.0m lengths as standard.

*Other sizes available to custom order.*



## Econo

Our most budget friendly grade, Econo allows more knots and defects than our other premium grade. Whilst it is still a long term solution, Econo grade is similar to Premium Economy, but is more suited for temporary or lower value decking projects where cost saving is important and durability is required.

**Available in:** 4.8m, 5.4m 5.8m and 6.0m lengths as standard.

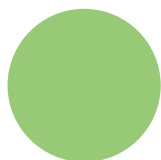
*Other sizes available to custom order.*



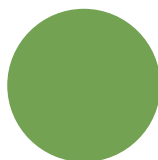


# Decking Treatments

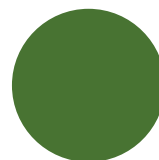
Our manufacturing facility allows us to chemically treat all of our timber from a basic H1.2 (indoor use only) through to a full H6 (marine applications) level. As decking is used outdoors, we only offer decking in suitable treatments from H3.2 level upwards:



**H3.2**



**H4**



**H6**

**Hazard Class**

**Exposure**

Exposed to the weather, above ground or protected from the weather but with a risk of moisture entrapment

Exposed to the weather, in ground or in fresh water

Exposed to weather, in ground or in salt water or more corrosive environments

**Service Conditions**

Periodic wetting, not in contact with the ground, more critical end uses.

Ground contact, or conditions of severe or continuous wetting

Ground contact, conditions of severe or continuous wetting where exposed to the marine environment

**Biological Hazard**

Decay, fungi and Borer

Decay, fungi and Borer

Decay fungi and borer, Marine borer

**Chemical Type**

Copper Chromium arsenic (CCA)

Copper Chromium arsenic (CCA)

Chromium arsenic (CCA) Or Alkaline Copper Quaternary (ACQ)

**Typical Uses**

Standard Decking, for use outdoors in benign climates. Also available in a Re-Dried finish

Most suitable for decking in marine and other harsh outdoor environments. Also available in a Re-Dried finish.

Marine Applications such as jetty steps or decks that are periodically submerged.





## Decking Sizes

All of our decking grades are offered in the standard sizes below, but are also available in custom sizing as required.



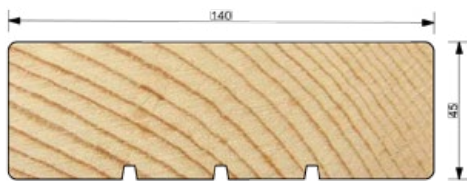
### 100x40 [FIN 88x32]

Our narrower option, this is the go to size for smaller areas. Our 100x40 is machined down to a consistent 90mm wide by 32mm thickness. As standard we offer this as smooth faces all round, with pencil-rounded edges.



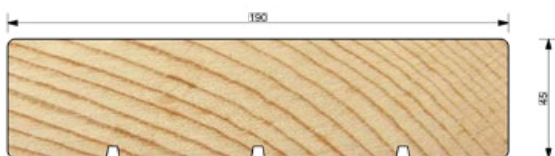
### 150x40 [FIN 140x32]

This is our standard "wide board" for decking use. This is machined down to 140mm wide by 32mm thickness, and incorporates our innovative relief strips on the back face to aid in identifying the best face on site, as well as providing the boards with stability onsite.



### 150x50 [FIN 140x45]

The heavy duty option. 45mm thick decking allows wider joists and a stiffer deck. Engineered correctly this profile decking can handle light vehicle loads as well as basic human and buggy traffic.



### 250x50 [FIN 190x45]

Similar to our 150x50 product this decking is suitable for heavy duty purposes or where an extremely wide board aesthetic is needed.

*All sizes are available in any of our treatment options, and visual grades. We also offer a machine strength verified version of the 140x32, 140x45 and 190x45 for engineered decking uses.*

# Technodeck

To ensure that your deck goes the distance, and looks great for as long as possible we offer a clear decking oil and timber stabilizer.

Technodeck is designed to prolong the aesthetic life of your deck and provide it with resistance against movement and moisture entrapment. A great insurance policy for your decking investment, Technodeck is easy to apply and does not affect any of the other great qualities that pine is blessed with. Technodeck decking oil is sold clear as standard but is available as a tinted stain option.





# Machine Graded Framing Timber

Machine graded timber is an extremely reliable material for construction as every single piece of wood has been individually tested for structural integrity during processing.

Machine grading is the only accurate way to verify the structural properties of wood and our process selects only the boards that meet the minimum strength requirements. Please note that as Machine Graded timber is purely graded on structural properties, there is no visual minima for the timber. Boards are paint marked as below for grade and are more suitable for hidden installation.

## Characteristics

### Treatment

- ▶ H1.2
- ▶ H3.1
- ▶ H3.2

### Grade

- ▶ FF10 (marked blue)
- ▶ FF20 (marked black)
- ▶ FF40 (marked green)

### Finish

- ▶ Machine gauged
- ▶ Rougher header

### State

- ▶ Kiln Dried/Wet Treated

## Applications

- ▶ Lintels
- ▶ Floor joists
- ▶ Roof beam
- ▶ General framing
- ▶ Trusses
- ▶ Jetty Substructure

Grade	Minimum Strength	Colour Mark
FF10	6 GPa	Blue
FF20	8 GPa	Black
FF40	10 GPa+	Green/Purple



# Visual Graded Framing Timber

Visually graded framing timber differs from our machine graded timber in that it is not only graded for its structural performance, but a visual override is applied during the manufacturing process to ensure that a higher visual standard of timber is supplied.

This ensures a more attractive timber for exposed use or anywhere that a structural timber is required, but is exposed to view. We are also careful to ensure a high standard of finish and no paint marks on the face of the timber. This is our most versatile pine and can be used for just about anything as it is aesthetically attractive as well as structurally sound. Great for Beams and rafters, also suitable for staining or painting. Usually supplied in a kiln dried finish, also available treated wet for outdoor use. All of our timber is available both planed (smooth finish) and rough sawn.

Size (mm)	Length (m)				
	3.6	4.2	4.8	5.4	5.8
75 x 25	✓	✓	✓	✓	✓
100 x 25	✓	✓	✓	✓	✓
150 x 25	✓	✓	✓	✓	✓
200 x 25	✓	✓	✓	✓	✓
50 x 50	✓	✓	✓	✓	✓
75 x 50	✓	✓	✓	✓	✓
100 x 50	✓	✓	✓	✓	✓
150 x 50	✓	✓	✓	✓	✓
200 x 50	✓	✓	✓	✓	✓
250 x 50	✓	✓	✓	✓	✓
300 x 50	✓	✓	✓	✓	✓
100 x 75	✓	✓	✓	✓	✓
100 x 100	✓	✓	✓	✓	✓
150 x 75	✓	✓	✓	✓	✓
200 x 75	✓	✓	✓	✓	✓
250 x 75	✓	✓	✓	✓	✓
300 x 75	✓	✓	✓	✓	✓
150 x 100	✓	✓	✓	✓	✓
200 x 100	✓	✓	✓	✓	✓
250 x 100	✓	✓	✓	✓	✓
300 x 100	✓	✓	✓	✓	✓



## Characteristics

### Treatment

- ▶ CCA ▶ H3.1 ▶ H5
- ▶ ACQ ▶ H3.2 ▶ H6
- ▶ H1.2 ▶ H4 ▶ H6+

### Finish

- ▶ Machine gauge
- ▶ rough sawn
- ▶ rougher
- ▶ Header

## Applications

### F7

- ▶ High performance exposed framing
- ▶ beams
- ▶ joists
- ▶ beams
- ▶ rafters

### Frame 1

- ▶ Standard framing and building
- ▶ roof trusses
- ▶ decking structures

### Frame 2

- ▶ Temporary structures
- ▶ Lower performance framing and trusses
- ▶ Non structural applications
- ▶ Ceiling frames





# Plywood

We offer a wide range of Radiata pine plywood in a number of different thicknesses, grades and finishes.

Radiata ply can be supplied in verified structural grades for high performance construction application, right through to appearance grades for a high quality knot-free finish. We also supply grooved ply, form ply, marine ply and just about any other ply! We can also supply meranti and other hardwood plywood, as well as most common MDF grades to order.

## Characteristics

### Treatment

LOSP H1.2 treated (interior or exterior where board is painted) or CCA H3.2, H4, H5 and H6 treated (for exterior, continuous wetting).

### Standard sizes

- ▶ 1200mm x 2400mm
- ▶ 1200mm x 2700mm
- ▶ 1200mm x 3000mm

## Applications

### Standard Structural

Perfect for most common structurally applications. Available in a DD grade or CD (paint finish) grade and all of our treatments.

### Roofing Ply

Structurally graded to F14 standards and is supplied with a plastic tongue and wooden groove.

### Plywood Cladding

Available in a grooved or textured finish. Cladding ply is free from knots and blemishes on the exposed face and is ready to stain or paint for an attractive timber finish.

### Jetty Ply

Similar to our structural ply but with a specific marine bonded glue line and higher CCA treatments to last in the harsh marine environment.

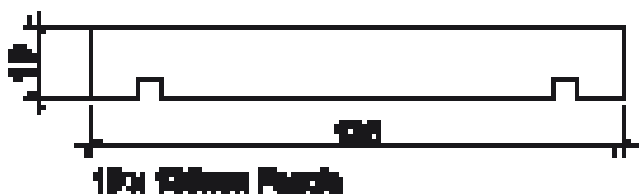
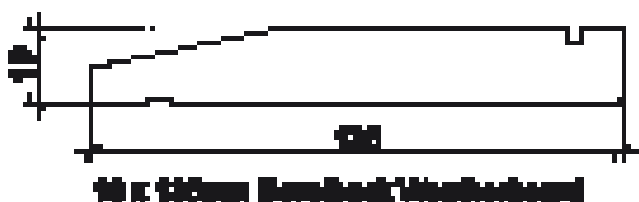
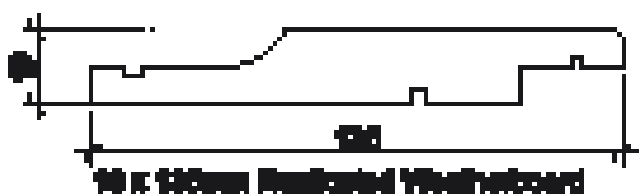
Ply venners	Thickness (mm)									
	4	7	9	12	15	17	19	21	25	33
3ply	✓	✓	✓							
5ply				✓	✓					
7ply						✓	✓	✓		
9ply									✓	
11ply										✓



# Cladding

We offer a range of different cladding systems to accommodate most requirements.

We have a number of standard profiles for both horizontal and vertical applications. Our natural finish cladding includes both Cedar and Pine options, with exposed pine cladding treated in a minimum of H3 for durability. Our most popular lines are pre-primed and ready to fix and paint saving valuable time and labour on site.



## Grades

- ▶ Elite Clear – completely clear faced timber for a premium look. Suitable for exposed natural finish.
- ▶ Select Premium – small character knots allowed. Suitable for an exposed natural finish with character
- ▶ Merch – larger knots allowed, suitable for “robinson crusoe” look.
- ▶ Finger Jointed Pre Primed – Finger jointed for stability and pre primed for durability and ease of use

## Finishes

- ▶ Smooth
- ▶ Rough Sawn
- ▶ Band Sawn
- ▶ Pre Primed
- ▶ Pre Stained
- ▶ Sand Blasted

## Treatments

- ▶ H3.1 LOSP (Clear and Green)
- ▶ H3.2 CCA (Wet and Dry)
- ▶ H3.2 ACQ





# Mouldings

We supply a range of pine mouldings for both interior and exterior use. Our exterior CougarClad cladding system is a range of premium weather board mouldings and profiles to suit exterior cladding requirements.

CougarClad is treated to H3.1 and comes double primer coated as standard. We also provide a range of interior mouldings such as sarking, skirting boards, architraves and just about any common profile. These can be provided in a natural state or treated and primed as required. We also provide a specialist custom machining service for large runs.

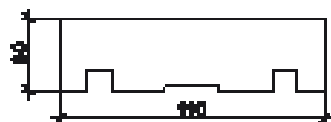
## Characteristics

### Treatment

- ▶ Untreated
- ▶ H3.1 LOSP
- ▶ H3.1 AZOL Clear
- ▶ H3.2 CCA

### Grade

- ▶ Merch grade
- ▶ finger jointed clear
- ▶ #2 clears
- ▶ #1 clears
- ▶ pre primed finished
- ▶ dressing



40 x 110mm Double Cheeked Door Jamb



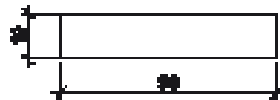
40 x 110mm Flare Splayed Skirting



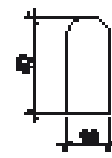
40 x 110mm T&G Working Floor cover



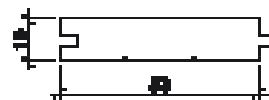
40 x 110mm Single Bevelled Architrave



40 x 110mm C40



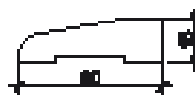
40 x 110mm Sarking



40 x 110mm Tongue & Groove Flooring Floor cover



40 x 110mm Bullnose Architrave



40 x 110mm Flare Splayed Architrave

# Clear Finishing Timber

Clear timber is just as the name suggests - clear of all knots and growing defects. This is the best grade of pine that we offer and it comes in all shapes, sizes and finishes.

Most commonly sold is #2 Clears, which allows for small defects on one face, and is a perfect premium option where one face of the timber is hidden. #1 Clears are completely free of defects on all sides, and is our most expensive, but highest quality range of timber.



Size (mm)	Length (m)													
	1.8	2.1	2.4	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0
75 x 25			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
100 x 25			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
150 x 25			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
200 x 25			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
50 x 50			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
75 x 50			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
100 x 50			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
150 x 50			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
200 x 50			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
250 x 50			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
300 x 50			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
100 x 75			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
100 x 100			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
150 x 75			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
200 x 75			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
250 x 75			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
300 x 75			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
150 x 100			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
200 x 100			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
250 x 100			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓
300 x 100			✓	✓	✓	✓	✓	✓		✓		✓	✓	✓

## Characteristics

### Treatment

- ▶ Untreated
- ▶ H3.1
- ▶ H3.2

### Grade

- ▶ No. 1
- ▶ No. 2

### Finish

- ▶ Rough sawn
- ▶ machine gauged
- ▶ rough header dressed four sides
- ▶ profiled

### State

- ▶ Kiln dried
- ▶ air dried
- ▶ wet

## Applications

### No 1. Clears

Suitable for moulding and furniture where clear, long, blemish free lengths are required.

### No 2. Clears

Suitable for mouldings and furniture where only 3 of the four faces are required to be free of blemishes.





# Dressing

Radiata dressing grade is a slightly knottier grade of pine that is commonly used in furniture and shelving construction, where there is no need to use clear wood.

This is a sustainably grown New Zealand timber and is a very affordable option where a slightly knotty feature is desired. The knots that are allowed in dressing grade are small, tight knots. No loose knots, pith or wane is allowed. Dressing grade is the highest visual grade that has some small feature knots included, but is mostly clear wood.

## Characteristics

### Treatment

- ▶ Untreated
- ▶ H3.1
- ▶ H3.2

### Finish

- ▶ Rough Sawn
- ▶ Profiled
- ▶ Machine Gauged

### Applications

- ▶ Childrens playgrounds
- ▶ Fences
- ▶ Furniture

Size (mm)	Length (m)													
	1.8	2.1	2.4	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0 6.3
75 x 25			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
100 x 25			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
150 x 25			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
200 x 25			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
50 x 50			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
75 x 50			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
100 x 50			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
150 x 50			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
200 x 50			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
250 x 50			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
300 x 50			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
100 x 75			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
100 x 100			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
150 x 75			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
200 x 75			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
250 x 75			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
300 x 75			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
150 x 100			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
200 x 100			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
250 x 100			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
300 x 100			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

# Small End Diameter (SED) Poles

Our SED (Small End Diameter) poles are naturally tapered, treated Radiata poles, made from high density renewable New Zealand timber.

Chemically treated for outdoor applications in CCA to levels H5 and H6. ACQ treatment options also available..



Length (m)	SED (mm)														
	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500
1.8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

## Characteristics

### Treatments

- ▶ CCA H5
- ▶ H6
- ▶ H6+
- ▶ ACQ H5.

### Grades

- ▶ High density
- ▶ standard density

## Applications

### Piling

The standard for heavy duty building piling needs.

### Retaining

SED Poles make a perfect retaining wall - H5 treated poles have been proven in the tough New Zealand climate for almost 100 years.

### Jetties & Marinas

When treated to H6 and H6+, SED poles are perfect for jetty, wharf and marina construction. Extremely hard wearing and easy to work, nothing comes close for cost effective performance in the marine environment.

### Sheds

A great heavy duty construction material for utility sheds and storage areas.





# Machine Rounds

Machine rounds are poles that have been machined to a completely round and uniform diameter finish.

These poles start out life the same as our regular high density poles, but after the log is peeled, the pole is processed to a consistent uniform diameter finish

## Characteristics

### Treatments

- ▶ Untreated
- ▶ CCA H4
- ▶ H5
- ▶ H6
- ▶ H6+
- ▶ ACQ H5

### Grades

- ▶ High density
- ▶ standard density

## Applications

### Bollards

Perfectly round poles make an aesthetically pleasing bollard, with a uniform look.

### Fencing

Machine rounds are perfect for fencing and are a great way to build a strong, good looking rural fence.

### Jetties & Marina

When treated to H6 and H6+, machine rounded poles are perfect for jetty, wharf and marina construction. Extremely hard wearing and easy to work with, machine rounds provide a great balance between good looks and durability.

Length (m)	Diameter (mm)										
	155	180	200	225	250	275	300	325	350	375	400
1.8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8.0				✓	✓	✓	✓	✓	✓	✓	✓
9.0				✓	✓	✓	✓	✓	✓	✓	✓
10.0				✓	✓	✓	✓	✓	✓	✓	✓

### Sheds

A great heavy duty construction material for utility sheds and storage areas. Perfect for kitset modular builds - every pole can be machined the same so construction is a breeze.

### Housing

Machine rounded poles are perfect for building heavy duty house frames. Many architects have taken advantage of the natural timber look and incorporate the rounded poles into the look of the house.

### Stables

Horses love a machine round stable - smooth round corners mean that animals don't have any sharp corners or edges to bump into.

# Utility Poles

Fluid Wood Products sells a standard range of Radiata pine utility poles for the telecommunications and power transmissions market.

All of these utility poles are strictly produced to the exacting standards required, and are tested to meet or exceed all criteria before delivery complete with a certificate of compliance.



kw	SED (mm)											
	3	5	7	8	9	10	12	14	15	18	20	22
2.4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9.0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10.0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11.0			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12.0				✓	✓	✓	✓	✓	✓	✓	✓	✓
13.0				✓	✓	✓	✓	✓	✓	✓	✓	✓
14.0				✓	✓	✓	✓	✓	✓	✓	✓	✓
15.0				✓	✓	✓	✓	✓	✓	✓	✓	✓
16.0				✓	✓	✓	✓	✓	✓	✓	✓	✓

## Characteristics

### Treatment

- ▶ CCA H5
- ▶ ACQ H5

### Grade

- ▶ High density
- ▶ standard density

### Seasoning

- ▶ 6 months dry
- ▶ fixation plant
- ▶ wet treated

## Applications

### Electricity Pole

The standard for heavy duty electricity poles. Treated pine poles stand the test of time.





# Proof Tested Poles

Fluid Wood Products are one of the few suppliers that can offer verified stress testing on timber poles.

Each pole is individually tested for stiffness, similar to how machine stress graded timber is verified in an “E grader” process. Each pole is loaded into a purpose built proof tester, that can handle up to 20m. Once the pole is loaded, hydraulic rams press and deflect the pole to preset distances and measure the deflection at different points along the pole. The results of the test can be then printed on an aluminium tag that is attached to the pole before it is dispatched. This allows engineers and designers to rely on the strength and stiffness of the poles.

## Characteristics

### Treatment

- ▶ CCA H5
- ▶ H6
- ▶ H6+
- ▶ ACQ H5

### Grade

- ▶ High density
- ▶ standard density

Standard Sizes (mm)	3.6	4.2	4.5	4.8	5.1	5.4	5.7	6.0
75 x 50	✓	✓	✓	✓	✓	✓	✓	✓
100 x 50	✓	✓	✓	✓	✓	✓	✓	✓
150 x 50	✓	✓	✓	✓	✓	✓	✓	✓
200 x 50	✓	✓	✓	✓	✓	✓	✓	✓
250 x 50	✓	✓	✓	✓	✓	✓	✓	✓
300 x 50	✓	✓	✓	✓	✓	✓	✓	✓

## Applications

- ▶ Quality assured deflection stress tested poles
- ▶ Low additional cost
- ▶ Long life aluminium tag option
- ▶ Fast turn around
- ▶ Largest machine stress tester in the southern hemisphere - machine stress tested poles to 20m
- ▶ 50 Year treatment guarantee
- ▶ Large stock pile of treated poles, most sizes available same day



# Fastenings

We offer a wide range of general fastening items including nuts, bolts, screws, washers, construction anchors etc.

These are all available in a number of material types and finishes. In addition we carry complementary products such as hinges, drill bits, driver bits, adhesives, lubricants, sealants and much more.



## Characteristics

### Finishes

- ▶ Stainless T316
- ▶ stainless T304 galvanised
- ▶ zinc yellow
- ▶ zinc plated

### Bolts

- ▶ Hex Hd Bolt
- ▶ Cup Hd Bolt
- ▶ Purlin Bolt
- ▶ HSFG Bolt
- ▶ Screw Bolt
- ▶ Set Screw

### Nuts

- ▶ Hex Nut
- ▶ Dome Nut
- ▶ Nyloc Nut
- ▶ Hex Flange Nut
- ▶ Lock Nut
- ▶ Wing Nut
- ▶ HSFG Nut
- ▶ Threaded Rod
- ▶ Threaded Rod
- ▶ Connector Nut

### Anchors

- ▶ Drop-in Anchor
- ▶ Highload Anchor
- ▶ Metal Pin Anchor
- ▶ Nail-in Anchor
- ▶ Sleeve Anchor
- ▶ Splitdrive Anchor
- ▶ Wedge Anchor

### Tools

- ▶ SDS Drill
- ▶ Jobber Drill
- ▶ Masonry Drill

### Screws

- ▶ Batten Screw
- ▶ Coach Screw
- ▶ Decking Screw
- ▶ Drywall Screw
- ▶ Self Drilling Screw
- ▶ Self Tapping Screw

- ▶ Surefix Screw
- ▶ Twinthread Screw
- ▶ Wing Screw
- ▶ Collated Screws

### Washers

- ▶ Cup Washer
- ▶ Lock Washer
- ▶ Round Washer
- ▶ Square Washer
- ▶ Heavy Round Washer
- ▶ Heavy Square Washer
- ▶ Spring Washer
- ▶ HSFG Washer
- ▶ Starlock Washer

### Miscellaneous

- ▶ Self Drilling Screws
- ▶ Profile Washers
- ▶ Rivets
- ▶ Polycarbonate Roofing Screws

### Nails

### Silicones

### Cable Ties

Note: Large range of sizes and finishes are available.  
Please enquire on [admin@fluidwoodproducts.co.nz](mailto:admin@fluidwoodproducts.co.nz)





## Coatings

Our high quality Coatings Musam, nonsequo discori consequi corerumqui omni dent fugitam as sitia num ium la qui comnist iandis essincias aut ra quis moditatet aped magnis ium ate necus sinveli taquis ressit,



### Technodeck

Technodeck is our tried and tested deck stabilization formula that ensures your deck “goes the distance” and lasts.

Designed to help stabilize the natural movement of timber, Technodeck reduces checking and splitting as the deck seasons off naturally. Available standard as a clear topically applied coating, Technodeck is also available in customized stained options



### Rot Stop

Rot Stop is an end cut sealer, essential for ensuring your treated pine timber has a full envelope treatment at the time of install. Recommended for all of our treated structural timber products where the timber is drilled, cut, machined or worked.

Rot Stop is a topical preservative and is easily applied during construction to ensure no breaches in the chemical treatment.



### Waterproofing

We offer a range of waterproofing products for various uses on your product. From roof proofing to shower lining and everything in between.



### Epoxy Coatings

To help lengthen the service life of galvanized and other steel products in the marine or near-marine environment, we offer a 2 pot carbomastic epoxy coating, that acts as a barrier against corrosion.

# Roofs & Walls

Our FluidFrame timber components are manufactured to meet strict strength, grading and treatment standards. The structural grading criteria of FluidFrame timber depend on the end use application.

Structural grade timber, such as in trusses and roof battens, are mechanically stress graded (MSG) for strength. All appearance grade timber, such as fascia boards and joinery are visually graded (VG) for knots, defects and stability. As all timber manufacturers and saw mills are required to meet strict New Zealand grading standards, the timber is guaranteed to be of the highest standard.



## Quality Design

We use advanced CAD and Roof System software to design your FluidFrame roofing and wall structure. As well as engineering the structure to your specific conditions, we also optimise our design in a number of ways. Firstly, we optimise for simplicity of construction on site. The simpler the design, the easier and faster to erect with any labour force. We then optimise for cost without compromising structural integrity and durability. Finally, we optimise our design for shipping - making sure to reduce empty space in containers where possible.

## Quality Manufacturing

Once we have designed your FluidFrame System, we then fabricate truss and other components with the latest technology timber manufacturing systems. At the heart of the system is the multi-axis precision cut saw, which cuts components to within 0.1mm accuracy. All components are then inkjet labelled and packed in bundles suitable for container loading and unloading at destination.





**Fluid Wood Products**  
+64 9 550 3125  
Auckland, New Zealand  
[sales@fluidwoodproducts.co.nz](mailto:sales@fluidwoodproducts.co.nz)

**Jamie Barrow**  
NZ +64 21 22 77 690  
Maldives +960 757 3328  
[jamie@fluidwoodproducts.co.nz](mailto:jamie@fluidwoodproducts.co.nz)

**Jeremy Barrow**  
NZ +64 21 2438 288  
Maldives +960 788 0708  
[jeremy@fluidwoodproducts.co.nz](mailto:jeremy@fluidwoodproducts.co.nz)

***fluidwoodproducts.co.nz***