

PRODUCT GUIDEBOOK









OUR HISTORY

Alice's great-grandparents, Colin and Alice Stuart, migrated from Scotland to the Otago region where they established and managed numerous sawmills. Continuing the family legacy, in **1980** their son, Campbell Stuart, founded Stuart Timber in Tapanui along side four of his five sons. The business is now owned and operated by his youngest son, Roger Stuart. A number of Stuart family members including Roger's wife, Catherine, and his three nephews, Brendon, Andy and Mike, are actively still involved in the Tapanui Mill.

In the late 80's, Alice's parents, Peter and Barbara Stuart, relocated to Christchurch. Peter spent eight years working at Halswell Timber with Barry Smart (Barry also owned sawmills Keighleys Stillwater & Keighleys Waimak), and in **1997**, they took the opportunity to take over the business. Through their dedication and vision, they revitalised the yard, machine shop, and product offerings.

Driven by the changing market dynamics, particularly with Laminex's shift away from specialised timbers, Peter and Barbara sought to expand their presence in the South Island. In **2006**, alongside their children, Matt Stuart and Alice Stuart, Halswell Timber Nelson was established. Located near the airport in Tahunanui (in Russell Furniture's previous premises), the venture focused on providing specialised timbers to local builders, joiners, and DIY enthusiasts, with a growing wholesale segment.

In **2010**, Jason and Alice Douglas took the reins, with Jason enhancing the machine shop capabilities, while Matt pursued his passion for sawmilling, establishing Loburn Sawmill near Rangiora which today is a thriving operation and HTL work closely alongside.

2015 saw the purchase of the local Russ Sawmill in Appleby to secure the plentiful local exotic log supply and a Rimu contract as a result of cyclone Ita on the West Coast. (Alice's Dad Peter worked previously at Donnelly's mill—later Taylor Timbers—with Grant Russ and Grant's father Vic Russ)

In **2016**, the relocation to the 1.3-hectare Hunter Laminates site in Richmond marked a significant expansion, five times the size of the Tahunanui location. The subsequent rebranding to HTL in **2017** reflected the broader product range, including GluLam, LVL, and Specialised Timbers, along with Mass Timber Projects. Additionally, HTL houses the only contract H3.1 LOSP treatment plant in the South Island.

Fast forward to **2024,** HTL has evolved into a prominent player in the timber industry, embodying the Stuart family's enduring legacy of innovation, resilience, and helping others.







WHO WE ARE

The **HTL** team are a hand-picked team of people who really understand all aspects of timber products used in construction from rough sawn timber from our sawmill through to high-end engineered laminated curves, pre-coated cladding.

That means when you need advice on what timber is best for a specific situation you get the benefit of four generations and over 70 years of specialist timber processing backed by up-to-date technology.

A local and privately-owned company, our production setups and changeovers are short, schedules flexible and delivery times are faster.

You'll also find us friendly and easy to deal with - offering alternatives and always finding a solution.

HTL Mission: To Be Your Trusted Experts in Specialist & Engineered Timber Products.



Jason Douglas

Managing Director



Russell Melrose General Manager



Anand Nair

Production Foreman



Alice Douglas
Sales Manager (Director)



Shane Mackereth
Senior Account Manager



Ash Cowper
Business Systems Analyst



Ollie Wiesner
Projects & Logistics Coordinator







Treatment Table

H1.2	H1.2 Boron	Interior	Framing and interior construction timber. Not in direct weather exposure.
Н3.1	H3.1 LOSP	Exterior	Exterior enclosed or protected. Weather sealant applied to all surfaces including site cuts. Cladding, Fascia, Joinery.
H3.2	H3.2 CCA	Exterior	Outdoors, exposed to weather, above ground. Cladding, Fascia and Joinery
Н4	H4 CCA	Ground	Outdoors, exposed to weather, in-ground contact, non-structural. Fence Posts, Landscaping Timbers.
Н5	H5 - CCA	Structural	Outdoors, exposed to weather, in-ground contact, structural. Posts, House Piles & Poles, Engineered Earth Retaining Structures.
Н6	Н6 - ССА	Marine	Outdoors, exposed to weather, in-ground contact, structural. Marine Piles, Jetty Cross-Bracing, Landing Steps, Sea Walls.

Refer to - NZS 3602









HTL H3.1 LOSP — Exterior Clear Treatment

Exterior Clear Treatment

Ideal for over-length timber products, HTL has a purpose-built chamber enabling timber treatment up to 15.9 metres long, prfect for farm shed rafters and mass timber building designs.

HTL are the only contract treatment plant in the South Island for H3.1 LOSP (Light Organic Solvent Preservative).

Timber products like LVL, H-LAM, Plywood, Mouldings, Weatherboards, Specialist, Fencing and more are treated every day at HTL's premises for both domestic and export markets.

Why Clear Exterior Treatment?

- No green colour
- Oil your H-Clad in any colour of your choice
- H-Lam Beams can be clear finished or lightly stained

H3.1 LOSP is comprised of Vascol Azure 1.2%.

The carrying agent for LOSP is White Spirits.













Legal Company Name :	Halswell Timber (Nelson) Ltd, t/a HTL Group	
Company Number:	1836066	
GST Number:	094 143 330	
Postal Address:	PO Box 3050, Richmond, Nelson 7050	
Physical Address:	48 Beach Road, Richmond, Nelson 7020	
Office Phone:	03 544 6006	
Sales Email:	sales@htl.nz	
Accounts Email:	accounts@htl.nz	













TABLE OF CONTENTS

H-LAM POSTS

H-LAM BEAMS

PROJECT HIGHLIGHTS

LVL BOXXA

LVL 08

LVL 11

LVL 13

LVL SUBSTITUTION TABLES

H-CLAD

TIMBER SPECIES

DRYDEN WOODOIL

TGV PANELLING

TIMBER SPECIAL ORDERS

SPECIES DATA TABLES

SIZE & QUANTITY DATA TABLE

HTL ORDERING INFO

10-12

13-17

21

24

25

26-27

28-29

31-35

38-43

44-45, 60-61

46-47

49

51-59

62

63

42-43





H-LAM

GLUE-LAMINATED TIMBER PRODUCTS

COMMON USES & BENEFITS OF H-LAM

- Structural exterior beams
- Structural exterior posts
- Engineered timber portals
- Double the strength-weight ratio of steel
- Preferred by builders for ease of use and handling
- Less cupping and warping
- Treatments to suit all applications including, H3.1, H3.2, H5

H-LAM - PROJECT PREFAB DIVISION

Fabrication to any design

- Curved Beams
- Portal Frames
- Overlength Beams
- Precambered Beams



H-LAM comes into its own when utilised on site-specific engineered projects.

HTL's premises with the multiple purpose-built extensive factory is synonymous with copious **H-LAM** Projects in the Southern Hemisphere over the last 50 years.

HTL's Project Prefab Division specialises in extremely oversize members as well as curves both slight and tight.

How BIG can HTL Manufacture GluLam?

> 1200mm+ Wide 280mm+ Thick 30m+ Long

H-LAM Glulam grades in New Zealand typically include GL8, GL10 and GL12

Grade	Bending strength, Fb (MPa)	Modulus of elasticity, E (GPa)
HL8	19	8
HL10	22	10
HL12	25	11.5







H-LAM Posts

H5

HL8 Radiata Visual Bulk Posts - PACKS

	88x88	112x112	135x135
Pieces per pack	20	20	20
2.4	V	V	V
2.7	\checkmark	\checkmark	$\sqrt{}$
3.0	\checkmark	V	\checkmark
3.6	\checkmark	\checkmark	\checkmark
4.2	\checkmark	V	\checkmark
4.8	√	\checkmark	\checkmark
5.4	√	V	\checkmark
6.0	\checkmark	\checkmark	\checkmark

Post Lengths:

\$p/Each

*Lengths 6.1m+ are subject to Manufacturing Surcharges (POA) & Over Length Freight

^{*}Sanded & Sealed / Sanded & Primed / Band sawn add \$9.00 per Lm $\,$







^{*}Larger sizes available on request



H-LAM Posts

HL8 Radiata Visual Posts - PIECES

	88x88	112x112	135x135	180x180	225x225
2.4	√	V	V	V	√
2.7	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
3.0	V	V	\checkmark	V	√
3.6	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4.2	V	V	\checkmark	V	√
4.8	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
5.4	\checkmark	V	\checkmark	\checkmark	√
6.0	\checkmark	V	\checkmark	\checkmark	√

H5 HL12 Radiata Visual Posts - PIECES

	88x88	112x112	135x135	180x180	225x225
2.4	√	V	V	V	V
2.7	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
3.0	\checkmark	V	V	\checkmark	V
3.6	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4.2	√	V	V	\checkmark	V
4.8	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
5.4	V	V	V	\checkmark	V
6.0	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark





H-LAM Posts

H3.1 HL8 Radiata Visual Bulk Posts - PACKS

	88x88	112x112	135x135
Pieces per pack	20	20	20
2.4	\checkmark	\checkmark	V
2.7	\checkmark	\checkmark	\checkmark
3.0	$\sqrt{}$	\checkmark	\checkmark
3.6	\checkmark	\checkmark	\checkmark
4.2	\checkmark	\checkmark	V
4.8	\checkmark	\checkmark	\checkmark
5.4	\checkmark	\checkmark	V
6.0	\checkmark	\checkmark	\checkmark

H3.1 HL8 Radiata Visual Posts - PIECES

	88x88	112x112	135x135
Pieces per pack	20	20	20
2.4	\checkmark	\checkmark	\checkmark
2.7	V	√	\checkmark
3.0	\checkmark	\checkmark	\checkmark
3.6	\checkmark	\checkmark	\checkmark
4.2	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
4.8	\checkmark	\checkmark	\checkmark
5.4	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
6.0	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$





Radiata Non-Visual Beams H3.1

	HL8	HL10	HL12
140x42	\checkmark	\checkmark	√
190x42	\checkmark	\checkmark	\checkmark
240x42	\checkmark	\checkmark	\checkmark
290x42	\checkmark	√	\checkmark
315x42	√	\checkmark	\checkmark
360x42	\checkmark	\checkmark	\checkmark
140x65	\checkmark	\checkmark	\checkmark
190x65	\checkmark	\checkmark	\checkmark
240x65	\checkmark	\checkmark	\checkmark
290x65	\checkmark	\checkmark	\checkmark
315x65	√	\checkmark	\checkmark
360x65	\checkmark	\checkmark	\checkmark
140x90	√	\checkmark	$\sqrt{}$
190x90	√	√	$\sqrt{}$
240x90	√	\checkmark	\checkmark
290x90	\checkmark	\checkmark	\checkmark
315x90	\checkmark	\checkmark	\checkmark
360x90	\checkmark	\checkmark	\checkmark
140x112	\checkmark	$\sqrt{}$	$\sqrt{}$
190x112	√	V	√
240x112	√	$\sqrt{}$	$\sqrt{}$
290x112	√	\checkmark	√
315x112	√	$\sqrt{}$	$\sqrt{}$
360x112	√	\checkmark	\checkmark
190x135	√	√	√
240x135	V	V	√
290x135	\checkmark	$\sqrt{}$	\checkmark
315x135	√	√	√
360x135	\checkmark	$\sqrt{}$	$\sqrt{}$
*\$ p/Lm			

^{*}Lengths over 6.1m+ subject to Manufacturing Surcharges (POA) & Over Length Freight



^{*}Lengths: 2.4, 3.0, 3.6, 4.2, 4.8, 5.4, 6.0, 6.6, 7.2, 7.8, 8.4, 9.6, 10.8, 12.0 +



H3.2

Radiata Visual Beams

	HL8	HL10	HL12
140x42	V	V	V
190x42	V	V	V
240x42	\checkmark	\checkmark	\checkmark
290x42	V	V	V
315x42	\checkmark	V	\checkmark
360x42	√	√ ·	V
140x65	\checkmark	\checkmark	\checkmark
190x65	\checkmark	V	V
240x65	\checkmark	\checkmark	\checkmark
290x65	\checkmark	\checkmark	V
315x65	\checkmark	\checkmark	\checkmark
360x65	\checkmark	V	V
140x90	\checkmark	\checkmark	\checkmark
190x90	\checkmark	\checkmark	\checkmark
240x90	\checkmark	\checkmark	\checkmark
290x90	\checkmark	\checkmark	\checkmark
315x90	\checkmark	\checkmark	\checkmark
360x90	\checkmark	\checkmark	V
140x112	\checkmark	\checkmark	\checkmark
190x112	\checkmark	\checkmark	\checkmark
240x112	\checkmark	\checkmark	\checkmark
290x112	\checkmark	\checkmark	\checkmark
315x112	\checkmark	\checkmark	\checkmark
360x112	\checkmark	\checkmark	\checkmark
190x135	\checkmark	\checkmark	\checkmark
240x135	\checkmark	\checkmark	V
290x135	\checkmark	\checkmark	$\sqrt{}$
315x135	$\sqrt{}$	√	V
360x135	\checkmark	$\sqrt{}$	$\sqrt{}$
*\$ p/Lm			

^{*}Lengths: 2.4, 3.0, 3.6, 4.2, 4.8, 5.4, 6.0, 6.6, 7.2, 7.8, 8.4, 9.6, 10.8, 12.0 +

^{*}Lengths over 6.1m+ subject to Manufacturing Surcharges (POA) & Over Length Freight





H3.2

Radiata Non-Visual Beams

	HL8	HL10	HL12
140x42	V	√	√
190x42	\checkmark	V	\checkmark
240x42	\checkmark	\checkmark	\checkmark
290x42	\checkmark	V	\checkmark
315x42	\checkmark	\checkmark	\checkmark
360x42	\checkmark	\checkmark	
140x65	\checkmark	$\sqrt{}$	\checkmark
190x65	\checkmark	\checkmark	\checkmark
240x65	$\sqrt{}$	$\sqrt{}$	\checkmark
290x65	$\sqrt{}$	V	\checkmark
315x65	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
360x65	\checkmark	\checkmark	\checkmark
140x90	\checkmark	\checkmark	\checkmark
190x90	\checkmark	\checkmark	$\sqrt{}$
240x90	\checkmark	\checkmark	\checkmark
290x90	\checkmark	\checkmark	$\sqrt{}$
315x90	\checkmark	\checkmark	\checkmark
360x90	\checkmark	\checkmark	\checkmark
140x112	\checkmark	\checkmark	\checkmark
190x112	\checkmark	V	$\sqrt{}$
240x112	\checkmark	\checkmark	\checkmark
290x112	\checkmark	V	\checkmark
315x112	\checkmark	\checkmark	\checkmark
360x112	\checkmark	\checkmark	\checkmark
190x135	\checkmark	\checkmark	\checkmark
240x135	\checkmark	V	\checkmark
290x135	\checkmark	\checkmark	\checkmark
315x135	\checkmark	V	\checkmark
360x135	\checkmark	\checkmark	\checkmark
*\$ p/Lm			

^{*\$} p/Lm

^{*}Lengths over 6.1m+ subject to Manufacturing Surcharges (POA) & Over Length Freight



^{*}Lengths: 2.4, 3.0, 3.6, 4.2, 4.8, 5.4, 6.0, 6.6, 7.2, 7.8, 8.4, 9.6, 10.8, 12.0 +

H5	Radiata Visual Beams		
	HL8	HL10	HL12
140x42	√	√	√
190x42	√	√	√
240x42	√	√	√ √
290x42		√	√
315x42	√	√ 	√
360x42	√	√ ·	√ ·
140x65	√	V	\checkmark
190x65	√	\checkmark	\checkmark
240x65	√	\checkmark	\checkmark
290x65	√	V	\checkmark
315x65	\checkmark	\checkmark	\checkmark
360x65	\checkmark	√	\checkmark
140x90	√	\checkmark	\checkmark
190x90	√	√	√
240x90	√	\checkmark	\checkmark
290x90	√	√	\checkmark
315x90	√	\checkmark	\checkmark
360x90	\checkmark	√	\checkmark
140x112	√ .	√	√
190x112	√	√	√
240x112	√	√	√
290x112	√	√	√
315x112	√	√	√
360x112	√	√	\checkmark
190x135	√	√	√
240x135	V √	√ √	
290x135		V √	
315x135		√	
360x135	√	√	√
*\$ p/Lm	v	v	v

^{*\$} p/Lm

^{*}Lengths over 6.1m+ subject to Manufacturing Surcharges (POA) & Over Length Freight



^{*}Lengths: 2.4, 3.0, 3.6, 4.2, 4.8, 5.4, 6.0, 6.6, 7.2, 7.8, 8.4, 9.6, 10.8, 12.0 +



H5	Radiata Non-Visual Beams
H5	Radiata Non-Visual Beams

	HL8	HL10	HL12
140x42	√	\checkmark	\checkmark
190x42	\checkmark	\checkmark	V
240x42	\checkmark	\checkmark	$\sqrt{}$
290x42	\checkmark	V	V
315x42	\checkmark	\checkmark	\checkmark
360x42	\checkmark	√	V
140x65	\checkmark	\checkmark	\checkmark
190x65	\checkmark	√	V
240x65	\checkmark	\checkmark	V
290x65	\checkmark	√	V
315x65	\checkmark	\checkmark	\checkmark
360x65	V	√	V
140x90	\checkmark	\checkmark	V
190x90	V	√	V
240x90	\checkmark	\checkmark	V
290x90	V	√	V
315x90	\checkmark	\checkmark	\checkmark
360x90	V	√	√
140x112	\checkmark	\checkmark	\checkmark
190x112	\checkmark	√	V
240x112	\checkmark	\checkmark	\checkmark
290x112	V	√	V
315x112	\checkmark	\checkmark	V
360x112		√ ·	√ ·
	·	·	
190x135	V	√	V
240x135	√ ·	√	· √
290x135	√	√	√
315x135	√	√	√ V
360x135	√	√	√
*\$ p/Lm	V		•

Ψ **[**-7] =

^{*}Lengths over 6.1m+ subject to Manufacturing Surcharges (POA) & Over Length Freight



^{*}Lengths: 2.4, 3.0, 3.6, 4.2, 4.8, 5.4, 6.0, 6.6, 7.2, 7.8, 8.4, 9.6, 10.8, 12.0 +



PRODUCT TECHNICAL STATEMENT

1.0 About

1.1 Introduction

HTL H-LAM™ GluLam is recommended for residential & commercial use. Including, but not limited to: Posts, Beams, Ridge Beams, Rafters, Lintels, Columns and Portal Frames.

HTL H-LAM™ GluLam is manufactured with kiln dried finger-jointed laminas of NZ Pinus Radiata. HTL H-LAM™ GluLam has been laminated to enhance the dimensional stability of the timber.

2.0 Code Compliance

2.1 Building Standards

HTL H-LAM™ GluLam meets the requirements and limitations of the following:

- AS/NZS 1328:1998 Glue Laminated Structural Timber (all parts)
- AS/NZS 1604.5 2010 Specification for preservative treatment Part 5: Glued laminated timber products
- AS/NZS 1748:2011 Timber Solid Stress graded for structural purposes (all parts)
- AS/NZS 4063:2010 Characterization of structural timber (all parts)
- AS/NZS 4364:2010 Timber Bond performance of structural adhesives
- AS 5068:2006 Timber Finger joints in structural products
- NZS 3602:2003 Timber and Wood based Products for Use in Building
- NZS 3603:2011 Timber design and construction
- NZS 3631:1988 New Zealand timber grading rules
- NZS 3640: 2003 Chemical Preservation of Round & Sawn Timber

3.0 Adhesives

HTL H-LAM™ GluLam is manufactured using Resorcinol and/or PUR.

3.1 Resorcinol

Resorcinol glue is dark brown in colour and made up of two parts:

- Jowat PRF Resin 950.80'
- Jowat Hardener 950.85'

3.2 PUR

PUR (polyurethane) glue is translucent (slightly white) and two types are used:

- Finger jointing 'Jowapur 680.03'
- Laminating- 'Jowa pur 681.10' or 'Jowa pur 681.40' or 'Jowapur 681.70' (the .xx refers to glue open time)

Jowat can certify the PUR adhesive durability for 50 year subject to conditions and exclusions including:

Posts must be fully encased in concrete (not in direct contact with soil).

4.0 Timber Properties

HTL H-LAM™ GluLam is manufactured with kiln dried finger-jointed laminas. Moisture content is p to 15%.

HTL H-LAM™ GluLam is manufactured to Service Class 3 – Exterior, fully exposed.

HTL H-LAM™ GluLam 'shall be protected against damage from moisture, and against significant variations of moisture content, both before and after installation or enclosure' (NZS 3604:2011, para. 4.3.2).







PRODUCT TECHNICAL STATEMENT

HTL H-LAM™ GluLam shall be coated with an appropriate coating system to protect the integrity of the GluLam. And this coating shall be kept up to date with the coating manufacturer's maintenance program.

HTL H-LAM™ GluLam is manufactured with the following timber properties:

Timber Properties	NZ/AU (EU)	SG8	GL8 (GL19)	GL10 (GL22)	GL12 (GL25)
Modulus of Elasticity (MOE)	(E) GPa	8	8	10	11.5
Modulus of Rupture (MOR)	(G) GPa	5.4	5.3	6.7	7.7
Bending	(fb) MPa	14	19	22	25
Tension parallel to grain	(ft) MPa	6	10	11	12.5
Compression parallel to Grain	(fc) MPa	18	24	26	29
Shear in Beam	(fs) MPa	3	3.7	3.7	3.7

Glulam Properties - ASNZS1328.2-1998-Glued Laminated Structural Timber

For the GL grade - NZ & Aus use the MOE number, the EU use the Bending Strength number

HTL H-LAM™ GluLam is Treated as shown in the following table:

Timber Treatment					
Hazard Classes	U/T	H1.2	H3.1	H3.2	H5
Applications	0/1	111.2	115.1	115.2	115
Interior non-structural components	√				
Framing and interior construction timber not in direct weather exposure		√			
Exterior non-structural building components			V		
Outdoors, exposed to weather			√	√	√
Above ground			√	√	
Exterior structural building components				√	
Applications with a risk of moisture entrapment				√	
Encased in Concrete, or on a bracket					√
Species Manufactured					
Douglas Fir - Glulam	V	V			
Radiata - Glulam	V	√	√	√	√



H-LAM TECHNICAL GUIDES

Available on our website at www.htl.nz





Product Substitution Tables:

GluLam Post, Lintel & Beams







H-LAM

GLUE-LAMINATED TIMBER PRODUCTS



Kaikoura Civic Centre



Falcon Brae Villa



Waitomo Caves Visitor Centre



Kaikoura Civic Centre



Falcon Brae Villa



Faaurfushi Island - Maldives



Motueka Public Library



Falcon Brae Villa



Linwood Pool



Faaurfushi Island - Maldives



Falcon Brae Villa



Upper Hutt Railway Station









LAMINATED VENEER LUMBER NelsonPine

BENEFITS OF LVL

- Structural internal beams, internal framing, lintels & trusses
- Double the strength-weight ratio of steel
- Preferred by builders for ease of use and handling
- Minimal movement
- Takes H3.1 LOSP treatment well for partial exposed application
- LVL 08, LVL 11 and LVL 13 are FSC Certified





H3.1 CLEAR TREATMENT

H3.2 is unavailable in all LVL products as the carrier for H3.2 is water and would fully saturate the LVL, then distort and change the exact finished size of the LVL as it dries.

The carrier of H3.1 LOSP is solvent and therefore does not create any moisture update in the LVL nor does it alter the dimensions of the LVL. HTL treat LVL to H3.1 LOSP onsite in Nelson.



HTL PROJECT PREFAB DIVISION - LVL

Within our Project Prefab Division, HTL remanufactures LVL for specific engineered projects.

Re-lamination, cutting, slotting, drilling, notching, sanding and coating within HTL's factory, simplifies site-works and aids construction timeframes.







LVL Boxxa

LAMINATED VENEER LUMBER



Вохха	Coated

	pcs/pk	6.0
100x36	90	V
150x36	63	V
170x36	54	\checkmark
200x36	45	V
240x36	36	V
300x36	27	\checkmark
375x36	30	\checkmark



BENEFITS

- Double the life expectancy than ordinary timber boxing
- Easier to handle
- Strong, straight and consistent
- Special paint surface for easier concrete release and moisture resistance
- Specifically designed for stability, longevity and strength





LVL 08

LAMINATED VENEER LUMBER

NelsonPine

LVL08 H1.2

LVL08	H3.1
-------	------

	pcs/ pk	4.8	6.0
90x45	156	\checkmark	\checkmark
140x45	96	\checkmark	\checkmark

	pcs/ pk	4.8	6.0
90x45	156	\checkmark	\checkmark
140x45	96	\checkmark	\checkmark

190x45	72	\checkmark
200x45	72	\checkmark
240x45	60	\checkmark
290x45	48	\checkmark
300x45	48	\checkmark

190x45	72	\checkmark
200x45	72	$\sqrt{}$
240x45	60	\checkmark
290x45	48	\checkmark
300x45	48	\checkmark











H1.2 Boron Treated — Interior

LVL	11		H1.2														
	/																
	pcs/ pk	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8	12.0
90x45	91	\checkmark	*	*	*	*	*	\checkmark									
140x45	56	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$	*	*	*	*	*	\checkmark
150x45	56	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark	$\sqrt{}$	*	*	\checkmark	$\sqrt{}$						
190x45	42	$\sqrt{}$	√	√	√	\checkmark	$\sqrt{}$	√	√	√	√	√	√	*	*	*	\checkmark
200x45	42	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	$\sqrt{}$	\checkmark	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	*	\checkmark	\checkmark
240x45	35	\checkmark	\checkmark	$\sqrt{}$	$\sqrt{}$	\checkmark	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	*	\checkmark	\checkmark
300x45	28	\checkmark	*	\checkmark	\checkmark												
360x45	21	\checkmark	\checkmark	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	$\sqrt{}$	$\sqrt{}$	*	\checkmark	*	\checkmark	*	\checkmark	\checkmark
400x45	14	\checkmark	$\sqrt{}$	\checkmark	*	\checkmark	*	\checkmark	*	\checkmark	\checkmark						
460x45	14	\checkmark	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	*	$\sqrt{}$	*	\checkmark	*	\checkmark	\checkmark
610x45	14	\checkmark	*	\checkmark	*	\checkmark	*	\checkmark	\checkmark								
150x90	24	\checkmark	*	*	\checkmark	*	\checkmark	\checkmark									
200x90	18	\checkmark	*	*	\checkmark	*	\checkmark										
240x90	15	\checkmark	\checkmark	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$	\checkmark	$\sqrt{}$	$\sqrt{}$	\checkmark	*	*	\checkmark	*	\checkmark	\checkmark
300x90	12	\checkmark	*	*	\checkmark	*	\checkmark	\checkmark									
150x63	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*



200x63

240x63

300x63

30

25

20





LAMINATED VENEER LUMBER NelsonPine

H3.1 Clear LOSP — Covered Exterior

LVL	11								НЗ	3.1							
	pcs/ pk	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8	12.0
	I																
90x45	91	√	√	√	√	√	√	√	√	√	√	*	*	*	*	*	√
140x45	56	$\sqrt{}$	\checkmark	\checkmark	\checkmark	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	*	*	*	*	*	$\sqrt{}$
150v/5	56	,	,	,	1	,	,	,	,	,	,	,	,	*	*	,	,
150x45		√ ,	√ ′	√ ,	√ ,	√ ,	√ ,	*	*	*	√ ,						
190x45	42	√ 	√ 	√ ,	√ 	√ 	√ ,	√ ,	√ 	√ 	√ ,	√ 	√ ,		*		√ ,
200x45	42	√ ,	√ ′	√ ′	√ ,	√ ,	√ ,	√ ,	*	√ ,	√ ′						
240x45	35	√ 	√ ,	√ ,	√ ,	√ 	√ 	√ ,	√ 	√ ,	√ ,	√ ,	√ ,	√ ,		√ ,	√
300x45	28	√	√	\checkmark	$\sqrt{}$	$\sqrt{}$	\checkmark	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	√	$\sqrt{}$	*	$\sqrt{}$	\checkmark
360x45	21	\checkmark	2/	2/	2/	2/	2/	\checkmark	2/	2/	*	2/	*	\checkmark	*	\checkmark	\checkmark
400x45	14		√ ./	√ ./	√ ./	√ ./	√ √	V √	√ √	√ ./	*	√ ./	*	V √	*	V √	V √
460x45	14	√ ./	√ ./	√ ./	√ ./	√ ./			_	√ -√	*	√ -√	*		*		
610x45	14	√ -/	*	√ -/	*	√ -/	*	√ √	√ -/								
0107-13	14	$\sqrt{}$	√	$\sqrt{}$	$\sqrt{}$	V	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$		$\sqrt{}$		$\sqrt{}$		V	$\sqrt{}$
150x90	24	\checkmark	*	*	\checkmark	*	\checkmark	\checkmark									
200x90	18	\checkmark	$\sqrt{}$	\checkmark	\checkmark	*	*	\checkmark	*	\checkmark	\checkmark						
240x90	15	√	\checkmark	\checkmark	\checkmark	√	\checkmark	\checkmark	√	√	\checkmark	*	*	\checkmark	*	\checkmark	√
300x90	12	\checkmark	*	*	\checkmark	*	\checkmark	\checkmark									
150x63	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
200x63	30	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
240x63	25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
300x63	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*





LVL 13 LUMBER



H1.2 Boron Treated — Interior

LVL 13	H1.2

	pcs/ pk	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8	12.0
150x45	56	$\sqrt{}$	$\sqrt{}$	\checkmark	*	*	\checkmark	*	\checkmark	\checkmark							
170x45	42	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	*	*	*	*	*	$\sqrt{}$
200x45	42	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	*	*	\checkmark	*	\checkmark	\checkmark
240x45	35	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	*	*	\checkmark	*	\checkmark	\checkmark
300x45	28	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	*	*	\checkmark	*	\checkmark	\checkmark
	ı																
360x45	21	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	\checkmark	*	\checkmark	*	\checkmark	*	\checkmark	\checkmark
400x45	14	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	*	\checkmark	*	\checkmark	*	\checkmark	\checkmark
460x45	14	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	\checkmark	*	\checkmark	*	\checkmark	*	\checkmark	\checkmark
610x45	14	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	\checkmark	*	\checkmark	*	\checkmark	*	\checkmark	\checkmark
150x63	40	√	√	√	√	√	√	√	√	*	*	*	*	*	*	√	*
200x63	30	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$	$\sqrt{}$	\checkmark	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	*	*	*	*	\checkmark	$\sqrt{}$
240x63	25	√	√	√	√	√	√	√	√	√	√	*	*	*	*	√	√
300x63	20	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	*	*	*	*	\checkmark	\checkmark
	ı												*				
360x63	15	√	√	√	√	√	√	√	√	√	*	√	*	√	*	√	√
400x63	10	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	\checkmark	*	\checkmark	*	\checkmark	*	\checkmark	\checkmark
460x63	10	√	√	√	√	√	√	√	√	√	*	√	*	√	*	√	√
610x63	5	$\sqrt{}$	\checkmark	$\sqrt{}$	*	\checkmark	*	$\sqrt{}$	*	$\sqrt{}$	$\sqrt{}$						





LVL 13 LUMBER

LAMINATED VENEER LUMBER NelsonPine

H3.1 Clear LOSP — Covered Exterior

LVL 13	H3.1

	pcs/ pk	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8	12.0
150x45	56	√	√	√	√	√	√	√	√	√	√	*	*	√	*	√	√
190x45	42	√	√	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	√	√	$\sqrt{}$	*	*	*	*	*	√
200x45	42	\checkmark	*	*	\checkmark	*	\checkmark	\checkmark									
240x45	35	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	$\sqrt{}$	√	\checkmark	*	*	√	*	√	\checkmark
300x45	28	$\sqrt{}$	$\sqrt{}$	\checkmark	*	*	\checkmark	*	\checkmark	\checkmark							
360x45	21	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	*	\checkmark	*	\checkmark	*	$\sqrt{}$	\checkmark
400x45	14	$\sqrt{}$	$\sqrt{}$	\checkmark	*	\checkmark	*	\checkmark	*	\checkmark	\checkmark						
460x45	14	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	*	\checkmark	*	$\sqrt{}$	*	$\sqrt{}$	$\sqrt{}$
610x45	14	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	*	\checkmark	*	\checkmark	*	\checkmark	\checkmark
150x63	40	\checkmark	*	*	*	*	*	*	\checkmark	*							
200x63	30	\checkmark	*	*	*	*	\checkmark	\checkmark									
240x63	25	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark	*	*	*	*	\checkmark	\checkmark						
300x63	20	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark	*	*	*	*	\checkmark	\checkmark						
													*				
360x63	15	√	$\sqrt{}$	\checkmark	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	√	*	\checkmark	*	\checkmark	*	\checkmark	\checkmark
400x63	10	\checkmark	\checkmark	\checkmark	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	*	\checkmark	*	\checkmark	*	\checkmark	\checkmark
460x63	10	\checkmark	*	\checkmark	*	\checkmark	*	\checkmark	\checkmark								
610x63	5	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	*	\checkmark	*	\checkmark	*	\checkmark	\checkmark



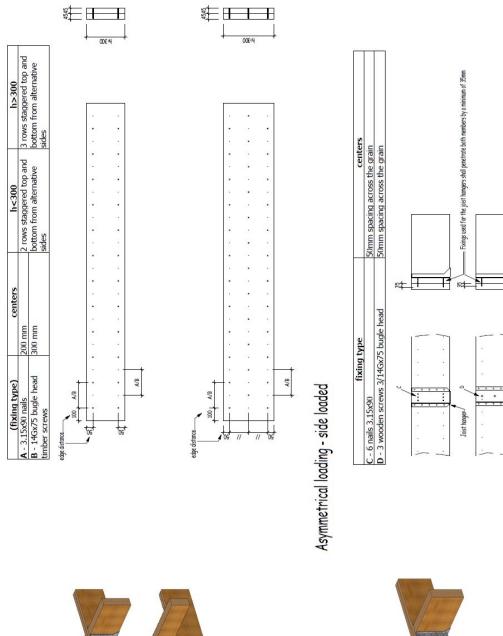


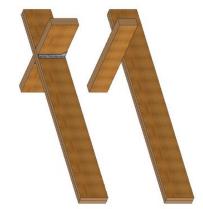




Nail Laminating or Screwing double sections of NelsonPine LVL together for residential use

Symetrical Loading - either top loaded or loaded equally from both sides of the member











Joist hanger

12/11/5rau



LAMINATED VENEER LUMBER NelsonPine



45mm LVL Substitution Table

H1.2	90x45	90x45 LVL8	NelsonPine 90x45 LVL11
Solid Timber	SG8/MSG8	\checkmark	\checkmark
Solid Tillibel	SG10 / MSG10		\checkmark
	J-Frame LVL8	\checkmark	\checkmark
LVL	truFRAME LVL8	$\sqrt{}$	$\sqrt{}$
	hyCHORD LVL11		√

H1.2	140 150	NelsonPine 140×45 LVL8	Nelson Pine 140x45 LVL11	NelsonPine 150×45 LVL13	
	SG8/MSG8		\checkmark	\checkmark	\checkmark
Solid Timber	SG10 / MSG10			\checkmark	\checkmark
	SG12/MSG12				\checkmark
	J-Frame	LVL8	\checkmark	\checkmark	\checkmark
1.7/1	truFRAME	LVL8	\checkmark	\checkmark	\checkmark
LVL	hyCHORD	LVL11		$\sqrt{}$	√
	hySPAN	LVL13			\checkmark

H1.2	190 200	190x45 LVL8	Nelson Pine 190x45 LVL11	NelsonPine 200x45 LVL13	
	SG8/MSG8		\checkmark	\checkmark	\checkmark
Solid Timber	SG10 / MSG10			\checkmark	\checkmark
	SG12 / MSG12				\checkmark
	J-Frame	LVL8	\checkmark	\checkmark	\checkmark
1.771	truFRAME	LVL8	\checkmark	\checkmark	\checkmark
LVL	hyCHORD	LVL11		√	$\sqrt{}$
	hySPAN	LVL13			\checkmark

			NelsonPine	NelsonPine	NelsonPine
H1.2	240	k 45	240x45	240x45	240x45
			LVL8	LVL11	LVL13
	SG8/MSG8		\checkmark	\checkmark	\checkmark
Solid Timber	SG10 / MSG10			\checkmark	\checkmark
	SG12 / MSG12				\checkmark
	J-Frame	LVL8	\checkmark	\checkmark	\checkmark
1.771	truFRAME	LVL8	\checkmark	\checkmark	\checkmark
LVL	hyCHORD	LVL11			
	hySPAN	LVL13			

H1.2	290 300	NelsonPine 290x45 LVL8	NelsonPine 300x45 LVL11	NelsonPine 300x45 LVL13	
	SG8/MSG8		\checkmark	\checkmark	\checkmark
Solid Timber	SG10 / MSG10			\checkmark	\checkmark
	SG12/MSG12				\checkmark
	truFRAME	LVL8	\checkmark	\checkmark	\checkmark
LVL	hyCHORD	LVL11		√	√
	hySPAN	LVL13			√

References:

- New Zealand Building Code Clause B2 Durability (Amendment 8).
- MBIE Quick Guide to Product Substitution.
- https://www.building.govt.nz/projects-andconsents.
- NZ Wood Design Guides: Consenting Timber Buildings.
- NZS3604: Timber Framed Buildings.
- NZS3603: Timber Structures Standard.
- NZS3602: Timber and wood-based products for use in building.
- NZS3640: Chemical Preservation of Round and Sawn Timber.
- $\hbox{-} Nelson \hbox{Pine LVLS} pecific \hbox{Engineering Design Guide.}\\$
- NelsonPine LVL Product Technical Statement.
- J Frame Product Assurance Supplier Statement.
- Futurebuild LVL Specific Engineering Design Guide.









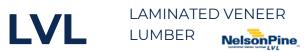
LVL 11 Substitution Table

LVL11	NelsonPine,	CHH FUTUREBUILD
90x45	LVL11	hyCHORD
140x45	LVL11	hyCHORD
190x45	LVL11	hyCHORD
240x45	LVL11	hy90
300x45	LVL11	hy90
360x45	LVL11	-
400x45	LVL11	-
460x45	LVL11	-
610x45	LVL11	-
150x90	LVL11	hy90
200x90	LVL11	hy90
240x90	LVL11	hy90
300x90	LVL11	hy90
360x90	LVL11	hy90
400x90	LVL11	hy90
460x90	LVL11	-
610x90	LVL11	-









LVL 13 Substitution Table

LVL13	Nelson Pine	CHH FUTUREBUILD
150x45	LVL13	hySPAN
170x45	LVL13	hySPAN
200x45	LVL13	hySPAN
240x45	LVL13	hySPAN
300x45	LVL13	hySPAN
360x45	LVL13	hySPAN
400x45	LVL13	hySPAN
460x45	LVL13	-
610x45	LVL13	-
150x63	LVL13	hySPAN
200x63	LVL13	hySPAN
240x63	LVL13	hySPAN
300x63	LVL13	hySPAN
360x63	LVL13	hySPAN
400x63	LVL13	hySPAN
450x63	-	hySPAN
460x63	LVL13	-
600x63	-	hySPAN
610x63	LVL13	-









Residential LVL Substitutions - 11th June 2020

Acceptable Solutions:

For use in Residential Timber framed Buildings in accordance with NZS3604 NelsonPine LVL may be used as a direct substitute in place of No. 1 Framing, SG6, SG8 and SG10 provided that the LVL is of the same finished size as the member to be substituted and has no less than the strength and stiffness properties of the grade to be substituted as per NZS3604: Timber Framed Buildings, Clause 2.3.9 (refer to Table 1 below: Timbers to be Substituted).

NelsonPine LVL meets the durability requirements of the NZ Building Code B2, when specified in accordance with NZS3602: Timber and wood-based products for use in building. glueline and face treatment is the preferred treatment for LVL and is the only Acceptable Solution treatment for LVL in NZS3640: Chemical Preservation of Round and Sawn Timber (A5) and is included in NZBC B2/AS1.

Building (Minor Variations) Regulations 2009:

A minor variation is defined as: "a minor modification, addition, or variation to a building consent that does not deviate significantly from the plans and specifications" in Regulation 3 of the Building (Minor Variations) Regulations 2009.

A Building Consent Authority (BCA) needs to be made aware of the substitution and the BCA will require the application (by the owner or agent) to demonstrate that the substitution will meet the Building Code. This substitution note submitted to the BCA will provide confidence to the BCA of the nature of the minor variation when assessing its suitability. Minor variations can be approved on site or at the BCA office.

The proposed sequence for a BCA's assessment of a minor variation is:

- 1. Does the proposed change involve building work that is required to comply with the Building Code? If the work is not required to comply with the building Code, then it is not necessary to seek approval for the change; the work may proceed.
- 2. Is the proposed change sufficiently minor that it comes within the definition of "minor variation" contained in the Building (Minor Variations) Regulations 2009. A proposed change will generally come within that definition of a minor variation if it involves, for example, any of the following situations
 - Substituting comparable building products in the same or similar position/manner.
 - Any alteration that does not change the footprint of the building or the location of internal load-bearing supports, or does not change fire safety aspects.
 - Does the proposed change:
 - ⇒ Comply with the Building code
 - ⇒ Reflect common appropriate industry practice or standards (for example, drainage or roof truss 'as-built' plan).
 - \Rightarrow Not significantly increase the likelihood of a building element's performance failure or of damage to other property.

The 16kN limits on reactions are imposed to avoid overloading the rest of the structure (BRANZ Engineering Basis of NZS3603)













If the answer to each of these three questions is 'yes', then it will generally be appropriate for the BCA to grant the minor variation.

Laminated Veneer Lumber (LVL) supplied by different manufacturers can be substituted within a residential new build or renovation in accordance with MBIE guidance "A Quick Guide to Product Substitution" as per section 175 of the Building Act 2004 as a minor variation, provided that:

- The MoE grade is the same or higher
- The dimensions are the same
- The LVL is manufactured to AS/NZS4357 from Radiata Pine Species
- The LVL meets the durability requirements of the application

Examples of what is not a minor substitution and needs specific design input:

- LVL as a primary member in a commercial building
- LVL being substituted for pre-cambered Glulam beams

If in doubt please call Nelson Pine Industries Ltd.

Table 1: Timbers to be Substituted

NelsonPine LVL	TIMBERS TO BE SUBSTITUTED							
	Sawn Timber		Glulam ^(a)		LVL			
	SG8	SG10	GL8	GL12	J-Frame LVL8	Ну90	Hychord	Hyspan
LVL8	√		√		\checkmark			
LVL11	√	√	√		√	√	√(b)	
LVL13	√	√	√	√	√	√	√	√

Note (a) LVL may only be substituted for straight Glulam (non-cambered).

Note (b) For use in trusses use proprietary truss software as nail plate capacities may vary.

References:

New Zealand Building Code Clause B2 Durability (Amendment 8)

MBIE Quick Guide to Product Substitution

https://www.building.govt.nz/projects-and-consents

NZ Wood Design Guides: Consenting Timber Buildings

NZS3604: Timber Framed Buildings

NZS3603: Timber Structures Standard

NZS3602: Timber and wood-based products for use in building

NZS3640: Chemical Preservation of Round and Sawn Timber

NelsonPine LVL Specific Engineering Design Guide

NelsonPine LVL Product Technical Statement

J Frame Product Assurance Supplier Statement

Futurebuild LVL Specific Engineering Design Guide

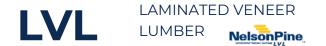
Nelson Pine Industries Ltd

Lower Queen St PO Box 3049 Richmond Nelson New Zealand Ph 64-3-543 8800 Fax 64-3-543 8890 www.nelsonpine.co.nz





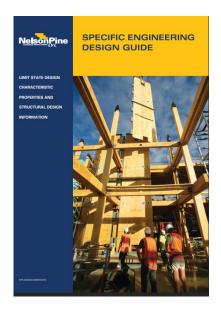




LVL TECHNICAL GUIDES

Available on our website at www.htl.nz













LAMINATED VENEER LUMBER NelsonPine





















Nelson Marlb Institute Technology













VERTICAL & HORIZONTAL

ALL PROFILES

	NZ Lawson	NZ	NZ	Radiata	Radiata
	Cypress	Larch	Macrocarpa	H3.1	H3.2
Profile Size	TIGHT KNOT	TIGHT KNOT	TIGHT KNOT	PREMIUM	PREMIUM
ex 75 x 25	V	\checkmark	√	\checkmark	\checkmark
ex 100 x 25	V	\checkmark	√	\checkmark	\checkmark
ex 150 x 25	V	\checkmark	$\sqrt{}$	$\sqrt{}$	\checkmark
ex 200 x 25	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

^{*}Ask us about LINECOAT, our onsite Pre-Coating in Dryden WoodOil or Resene Wood-X



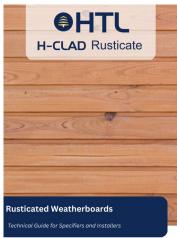
H-CLAD TECHNICAL GUIDES

Available on our website at www.htl.nz









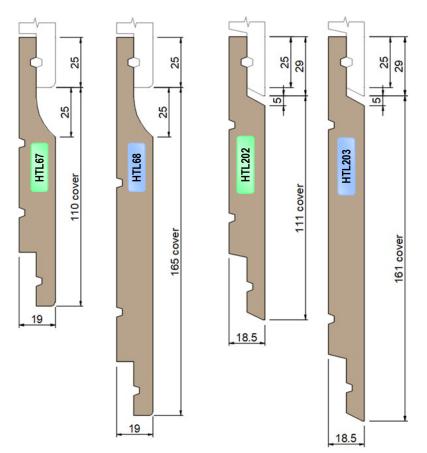


H-CLAD

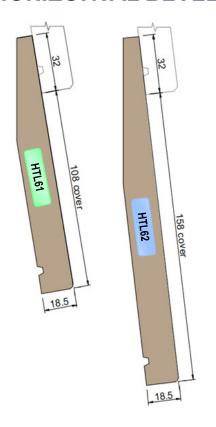
HORIZONTAL RUSTICATED SHIPLAP WEATHERBOARDS







HORIZONTAL BEVELBACK SHIPLAP WEATHERBOARDS

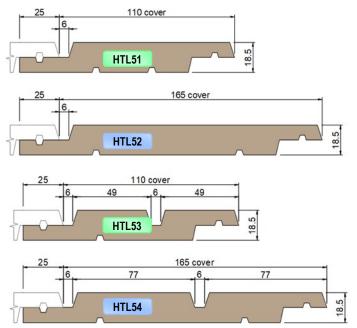


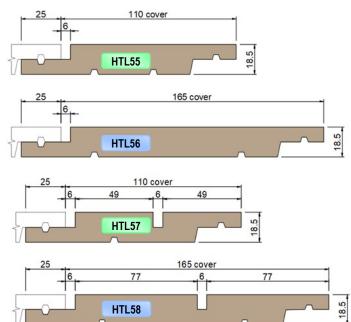




H-CLAD

VERTICAL SHIPLAP WEATHERBOARDS



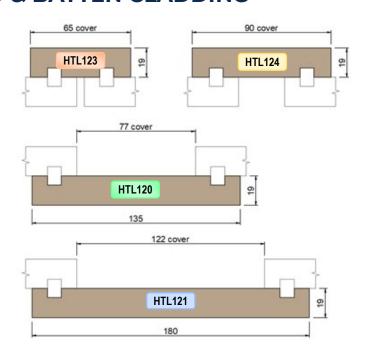




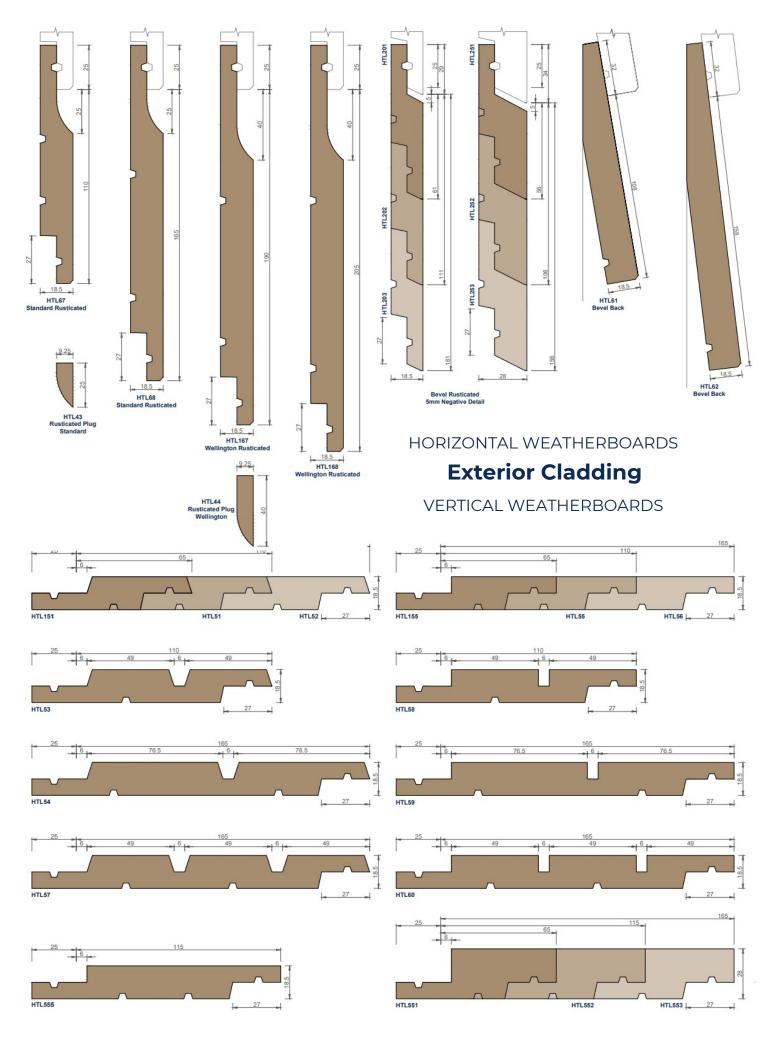


VERTICAL BOARD & BATTEN CLADDING

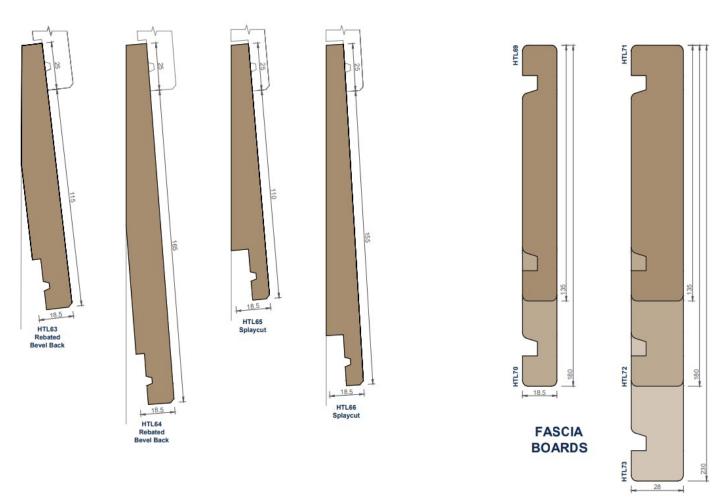




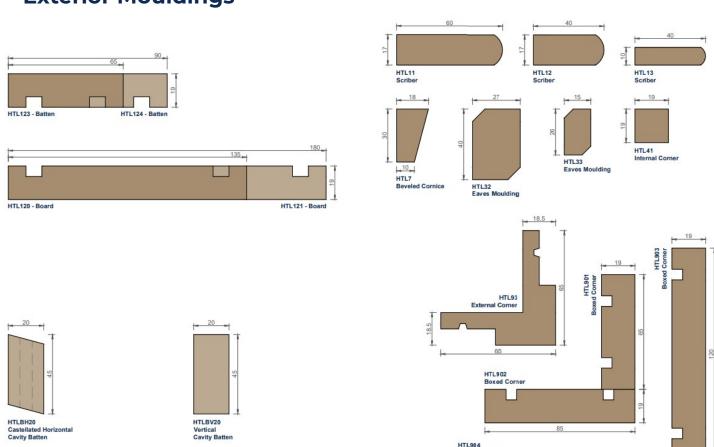








Exterior Mouldings





HTLBH20

H-CLAD Timber Species



NZ LARCH



GRADE: Dressing Heart Grade

> (NZS 3602:2003, Table 2:2A.1-Grade), which comprises of Heartwood with sound tight knot (STK). Any loose or bark encases knots or natural timber defects should be removed during installation. All grades may

require some docking.

SIZES: Ex 150x25, 200x25

LENGTHS: 1.8—6.0; heavy 3.6-4.8

COMPLIANCE:

BUILDING CODE NZS 3602:2003, Table 2:2A.1 Species

NZ LAWSON CYPRESS



GRADE: **Dressing Heart Grade**

> (NZS 3602:2003, Table 2:2A.1-Grade), which comprises of Heartwood with sound tight knot (STK). Any loose or bark encases knots or natural timber defects should be removed during installation. All grades may require some docking.

SIZES: Ex 150x25, 200x25

LENGTHS: 1.8—6.0; heavy 3.6-4.8

BUILDING CODE COMPLIANCE:

NZS 3602:2003, Table 2:2A.1 Species

NZ MACROCARPA



GRADE: Dressing Heart Grade

> (NZS 3602:2003, Table 2:2A.1-Grade), which comprises of Heartwood with sound tight knot (STK). Any loose or bark encases knots or natural timber defects should be removed during installation. All grades may

require some docking.

SIZES: Ex 150x25, 200x25

LENGTHS: 1.8—5.4; heavy 2.7-4.8

BUILDING CODE COMPLIANCE:

NZS 3602:2003, Table 2:2A.1 Species



H-CLAD Timber Species



SIBERIAN LARCH



GRADE:	Dressing Heart Grade
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(NZS 3602:2003, Table 2:2A.1-Grade), which comprises of Heartwood with sound tight knot (STK). Any loose or bark encases knots or natural timber defects should be removed during installation. All grades may require some docking.

SIZES: Ex 150x25, 200x25, 150x32, 200x32, 150x40, 200x40

LENGTHS: 2.4—6.0, heavy 3.6-4.8 in multiples of 300mm

BUILDING CODE NZS 3602:2003, Table 2:2A.1 Species **COMPLIANCE:**

RADIATA PINE H3.1 CLEAR LOSP



CDADE.		\sim 1
GRADE:	Premium	Grade

Dressing Grade

(NZS 3602:2003, Table 2:2A.1-Grade), Any loose or bark encases knots or natural timber defects should be removed during installation. All grades may require some docking.

SIZES: Ex 150x25, 200x25

LENGTHS: 1.8—6.0, in multiples of 300mm, heavy 3.9-4.8

BUILDING CODE COMPLIANCE:

BUILDING CODE NZS 3602:2003, Table 2:2A.1 Species

RADIATA PINE H3.2



Dressing Grade

(NZS 3602:2003, Table 2:2A.1-Grade), Any loose or bark encases knots or natural timber defects should be removed during installation. All grades may require some docking.

SIZES: Ex 150x25, 200x25

LENGTHS: 1.8—6.0, in multiples of 300mm, heavy 3.9-4.8

BUILDING CODE COMPLIANCE:

NZS 3602:2003, Table 2:2A.1 Species



Dryden Woodoil



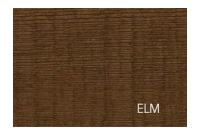














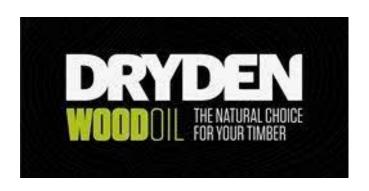














Dryden Woodoil

























AVAILABLE IN 1L, 4L, 10L & 20L





TGV Panelling



WALLS, CEILINGS, SOFFITS

CDECIEC	CDADE	INTERIOR	EXTERIOR			COVE	R SIZE		
SPECIES	GRADE	INTERIOR	EXTERIOR	83x9	83x10	128x10	58x19	83x19	128x19
Douglas Fir	Dressing Grade (Knots)	√						\checkmark	√
Lawson Cypress	Dressing Grade (Knots)	√	\checkmark				\checkmark	\checkmark	√
Larch	Dressing Grade (Knots)	√	√				√	\checkmark	√
Macrocarpa	Dressing Grade (Knots)	\checkmark	\checkmark				\checkmark	\checkmark	\checkmark
Macrocarpa	Premium	√	√	\checkmark	√	√	√	\checkmark	V
Radiata Pine	UT Clears	\checkmark		\checkmark	$\sqrt{}$	\checkmark	\checkmark	\checkmark	\checkmark
Radiata Pine	H3.1 Clears		√	\checkmark	√	√	√	\checkmark	V
Radiata Pine	UT Dressing Grade	\checkmark		\checkmark	√	√	\checkmark	\checkmark	\checkmark
Radiata Pine	H3.1 Dressing Grade		√	\checkmark	√	√	√	\checkmark	√







Timber Special Orders



ALL TIMBERS, ALL PROFILES

HTL can supply and manufacture any timber species in any shape, profile or form to cater for all of your special order projects.

FLEXIBLE TO SUIT

Being a small and flexible company, our production setups and changeovers are short, schedules flexible and delivery times are faster.

ONSITE END TO END PROCESS

HTL control the process on machined profiles. We draw your custom profiles in CAD, have templates made in days and grind knives onsite. We then set the knives in the head, set the heads in the planer and profile your timber. End to end, this process can be completed in less than a week.









Timber Special Orders



Deck, Balustrade, Pergola



Outdoor Balustrade



Soffit T&G Panelling



Mouldings, Scotia, Architrave



Handrail



Slats



Window Reveals



Bevelback Weatherboard, Fascia



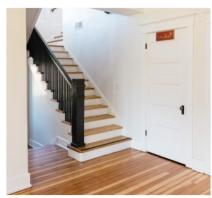
T&G Panelling



Skirting



Exposed Trusses



Stair Treads



Timber Special Orders





Timber Species	Grades	Interior / Indoors	Exterior / Outdoors	Hardwood Softwood
Anegre (English Tawa)	Premium	\checkmark		√
American Black Walnut	Prime	\checkmark		√
American Hard Maple	Prime	\checkmark		√
American Red Oak	Prime	√		√
American White Ash	Prime	√		√
American White Oak	Prime	\checkmark		√
Balau (Yellow Balau)	n/a		√	√
Douglas Fir	Select Dressing Grade	√	√	√
European Beech	Prime	\checkmark		√
Iroko	Prime	√	√	√
Kwila (Merbau)	n/a	\checkmark	√	√
Larch (NZ)	Dressing Grade	\checkmark	√	√
Lawson Cypress	Dressing Grade	\checkmark	√	√
Macrocarpa	Dressing Grade	\checkmark	√	√
Radiata Pine—UT	Clears Dressing Grade	\checkmark		√
Radiata Pine—H3.1	Clears Dressing Grade			√
Siberian Larch	Dressing Grade			√
Saligna	DA		√	√
Tasmanian Oak / Victorian Ash	Appearance		√	√
Western Ded Coder	DC1	,		/

SID SILLS
40x19
60x19
90x19
140x19
190x19
240x19
290x19
40x32

STD SIZES

40x32
60x32
90x32
140x32
190x32
240x32
290x32

42x42
60x42
90x42
140x42
190x42
240x42
290x42























Tip: For superior weathering in exterior applications, Band-sawn (BS) finish is recommended.

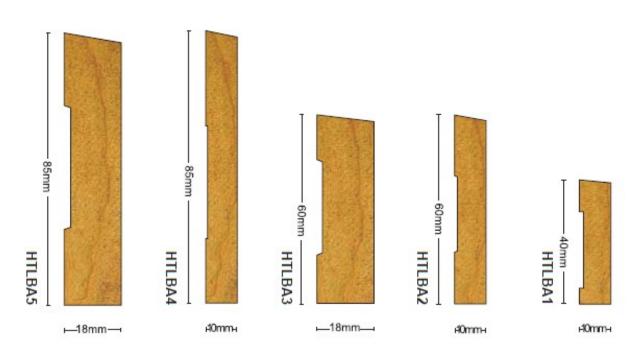


Western Red Cedar

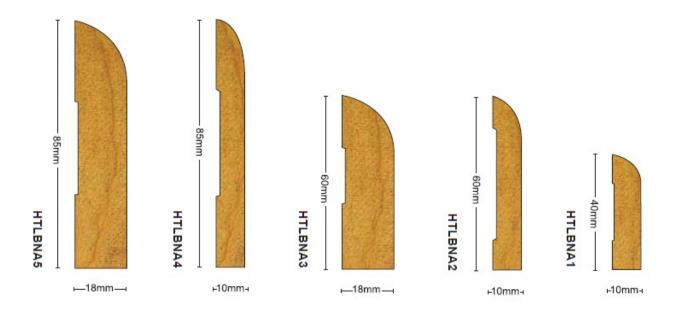
Skirting & Architrave



BEVEL



BULLNOSE

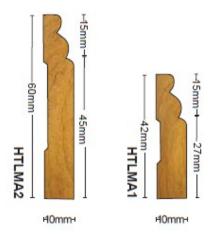




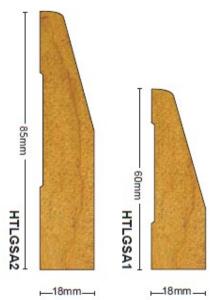
Skirting & Architrave

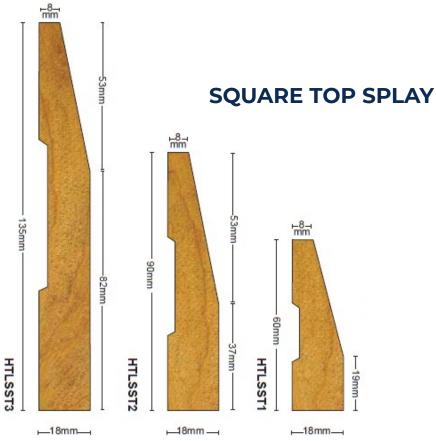


MELBOURNE



GOVERNMENT SPLAY



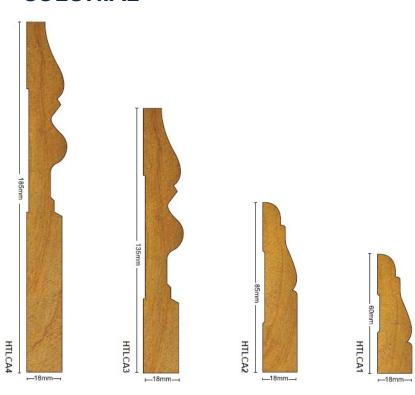




Skirting & Architrave



COLONIAL



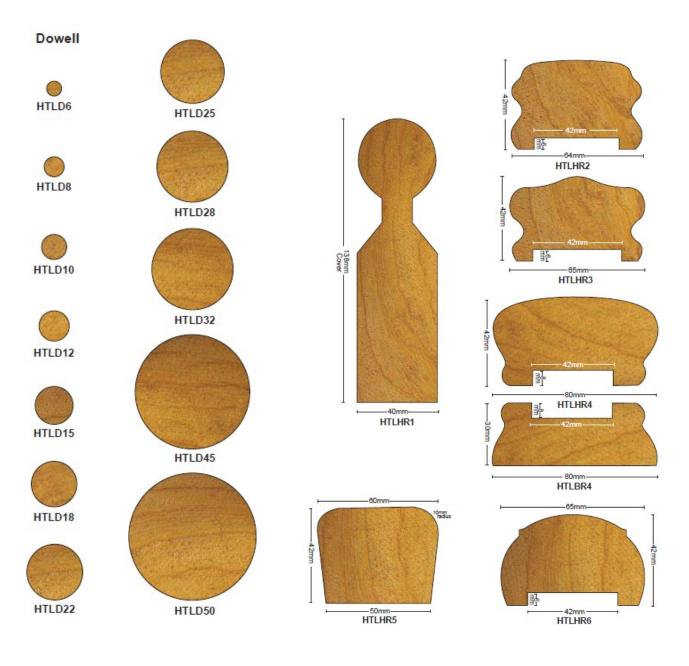
REPLICA





Handrail & Dowell

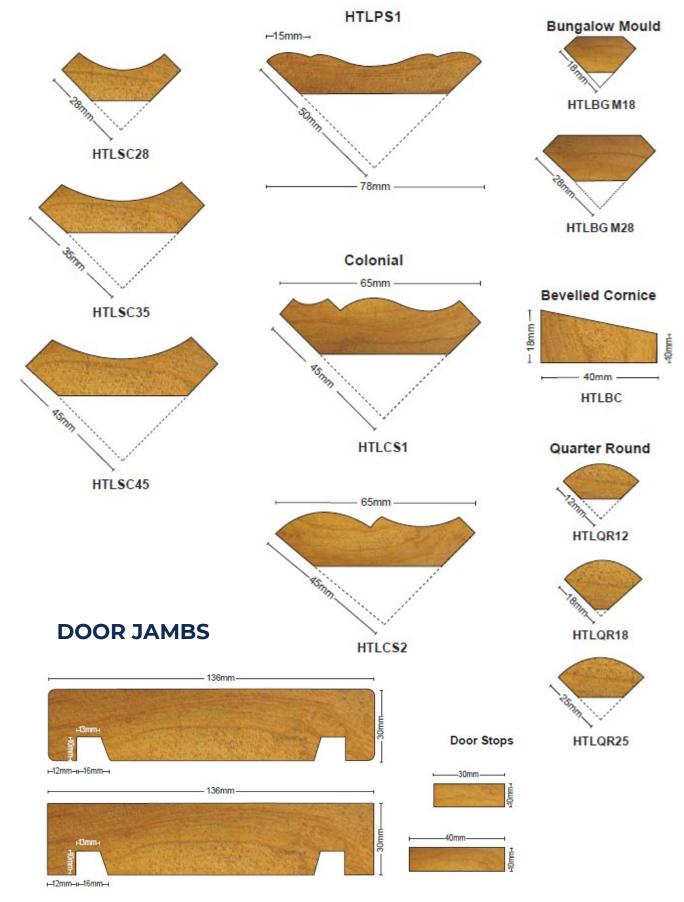






Mouldings & Scotia

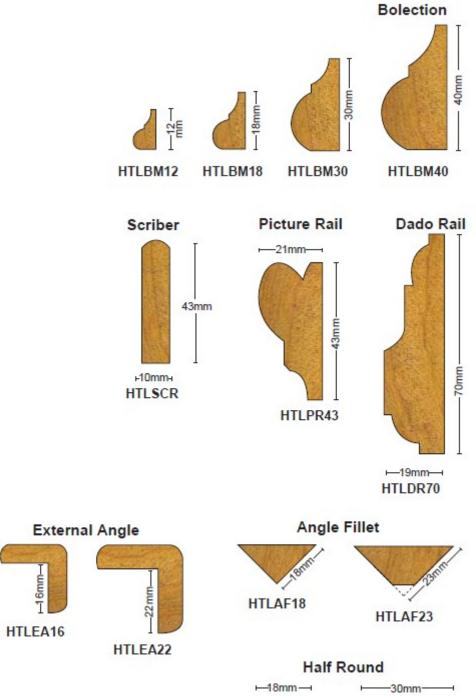


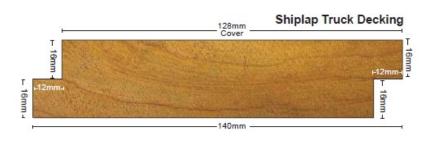




Mouldings & Scotia





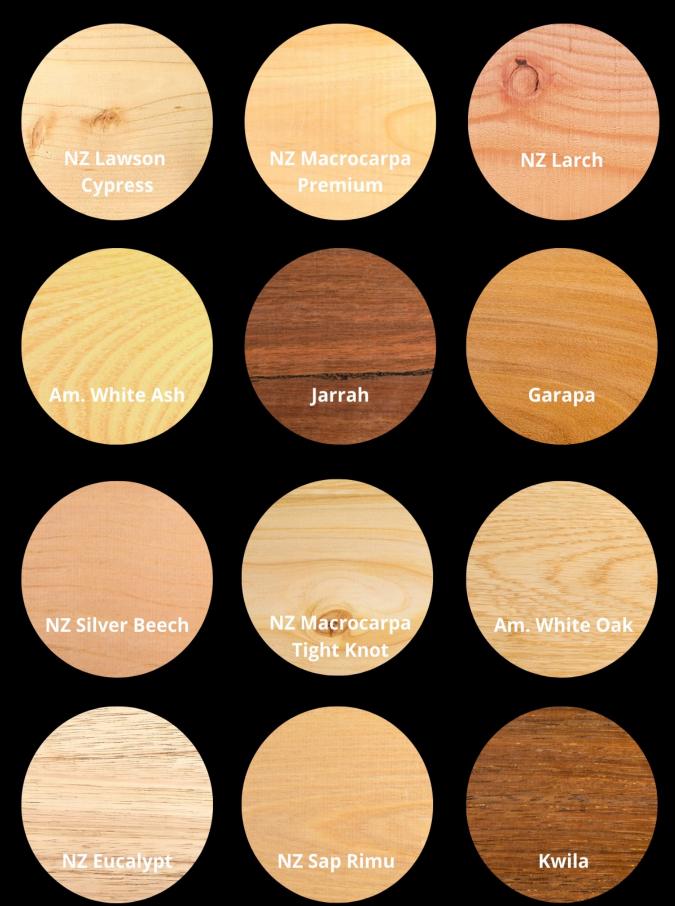


HTLDM18

HTLDM30











Species Data Table



Timber Species	Country of Origin	Botanical Name	Not Durable <10 yrs	Moderately Durable 10-15 yrs	Durable 15-25 yrs	Very Durable >25 yrs	Density Ave kg p/m3
Anegre (English Tawa)	Ivory Coast/Ghana	Aningeria spp	\checkmark				550
American Black Walnut	North America	Juglans nigra L		\checkmark			660
American Hard Maple	North America	Acer saccharum	\checkmark				655
American Red Oak	North America	Quercus rubra					700
American White Ash	North America	Faxinus americana	\checkmark				670
American White Oak	North America	Quercus spp	\checkmark				640
Balau (Yellow Balau)	The Philippines	Shorea spp			$\sqrt{}$		930
Douglas Fir	N/America, NZ	Psuedotsuga menziesii		\checkmark			480
European Beech	Europe	Fagus sylvatica	√				640
Eucalypt- NZ Ash	New Zealand	Eucalyptus delegatensis Eucalyptus fastigata Eucalyptus regnans Eucalyptus obliqua		√			600
Iroko	West Africa	Chlorophora excelsa					655
Kwila (Merbau)	Papua New Guinea	Intsia spp					870
Larch (NZ)	New Zealand	Larix deciduas					550
Lawson Cypress	New Zealand	Chamaecyparis lawsoniana					480
Macrocarpa	New Zealand	Cupressus macrocarpa					485
Malaysian Kauri	Malaysia	Agathis borneensis		√			540
Matai Heart	New Zealand	Prumnopitys taxifolia		√			630
Pilularis (Blackbutt)	New Zealand	Eucalyptus pilularis					730
Purpleheart	Central America	Amaranth				√	900
Radiata Pine—UT	New Zealand	Pinus radiata	√				510
Radiata Pine—H3.1	New Zealand	Pinus radiata					510
Rimu	New Zealand	Dacrydium cupressinum soland		√			600
Siberian Larch	Russia, Siberia	Larix Siberica					610
Saligna (Sydney Blue Gum)	NZ and Australia	Eucalyptus saligna		√			660
Sapele Mahogany	West Africa	Entandrophragma cylin- drucum					640
Tasmanian Blackwood	Australia	Acacia melanoxylon			√		625
Tasmanian Oak / Victorian Ash	Australia	Eucalyptus delegatensis Eucalyptus regnans Eucalyptus obliqua		√			630
Teak	Burma, Thailand, India	Tectona grandis				√	660
Vitex	PNG/Solomon Islands	Vitex cofassus				√	750
Western Red Cedar	North America	Thuja plicata			√		385



Size & Quantity Data Table



Metric	Imperial	D4S	Dry P/G	Lm/M3	Metric	Imperial	D4S	Dry P/G	Lm/M3
50x25	2x1	40x19		800.0	75x75	3x3	65x65	65x65	178.0
75x25	3x1	65x19		533.0	100x75	4x3	90x65	90x65	133.0
100x25	4x1	90x19		400.0	125x75	5x3	115x65		107.0
125x25	5x1	115x19		320.0	150x75	6x3	140x65	140x65	88.5
150x25	6x1	140x19		267.0	200x75	8x3	190x65	190x65	66.7
200x25	8x1	190x19		200.0	250x75	10x3	240x65	240x65	53.3
250x25	10x1	240x19		160.0	300x75	12x3	290x65	290x65	44.4
300x25	12x1	290x19		133.0	400x75	14x3			33.3
50x40	2x1 1/2	40x32		500.0	100x100	4x4	90x90	90x90	100.0
75x40	3x1 1/2	65x32	65x35	333.0	150x100	6x4	140x90		66.5
100x40	4x1 1/2	65x32	90x35	250.0	200x100	8x4	190x90		50.0
125x40	5x1 1/2	115x32		200.0	250x100	10x4	240x90		40.0
150x40	6x1 1/2	1400x32		167.0	300x100	12x4	290x90		33.3
200x40	8x1 1/2	190x32		125.0	350x100	14x4	340x90		28.5
250x40	10x1 1/2	240x32		100.0	400x100	16x4			25.0
300x40	12x1 1/2	290x32		83.0					
50x50	2x2	42x42		400.0	125x125	5x5	115x115		64.0
75x50	3x2	65x42	65x42	267.0	150x150	6x6	140x140		44.5
100x50	4x2	90x42	90x45	200.0	200x150	8x6	190x140		33.3
125x50	5x2	115x42		160.0	250x150	10x6	240x140		26.7
150x50	6x2	140x42	140x45	133.0	300x150	14x6	290x140		22.3
200x50	8x2	190x42	190x45	100.0	200x200	8x8	190x190		25.0
250x50	10x2	240x42	240x45	80.0	250x250	10x10	240x24 0		16.0
300x50	12x2	290x42	290x45	66.7	300x300	12x12			11.1
350x50	14x2			57.0	400x400	14x14			6.3



Date



	Sale	es Enquiry					
Timber Product							
H-CLAD	SPEC TIM	H-LAM	LVL				
What are they using it	for						
When do you need it t	by (days / weeks / months)						
Species							
Grade							
Width							
Thickness							
Metres / Lineal / Speci	ific Lengths						
Rough Sawn / Dresse	d / Bandsawn / Profile						
Profile Code / Profile I	Info						
	Bui	Ider Details					
Company							
Contact Name		Phone					
Email							
Acct Code		Job Ref/Build/Project					
	Mer	chant Details					
Contact/Rep Name							
	Note	es / Info					





Timber Profile Sign off

	BUILDER APPROVAL						
1] APPROVED						
1	[] APPROVED WITH CHANGES NOTED						
1] REVISE & RE-SUBMIT						
1] REJECTED						
(Tick Relevant Line)						
NAM	E						
SIGN	ED:						
COM	PANY:						
DATE	<u></u>						
	700						

MERCHANT APPROVAL
[] APPROVED [] APPROVED WITH CHANGES NOTED [] REVISE & RE-SUBMIT [] REJECTED (Tick Relevant Line)
NAME: SIGNED: COMPANY: DATE: _/_/

HTL	ORDER SPECIFICATION
Date:	
HTL Staff:	
HTL S/O:	
Merchant P/O	
	Product Information
SPECIES:	
GRADE:	
LM (incl SL):	
FACE FINISH:	Dressed / Band Sawn (Strikeout N/A)
COATING:	Coated / UNCoated (Strikeout N/A)
PRODUCT	or N/A
COLOUR:	or N/A

⊜ HIL

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