

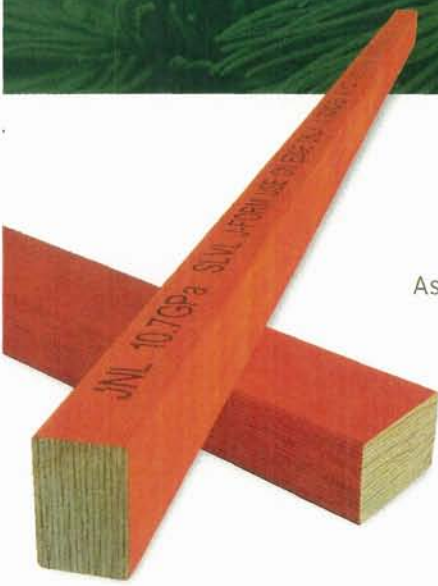


J-PLANK | J-FRAME | J-PLY |

j-form®

www.jnl.co.nz

Example application shown



J-FORM is a structural laminated veneer lumber product made from 100% renewable plantation wood resources - Radiata Pine. As an engineered, dimensionally stable wood product, it has been specially designed and manufactured for use in construction and other similar projects. It can be used for a variety of purposes including concrete formwork beams, joists, bearers, supports, and other applications on edge only. Independently certified and made in accordance with strict quality and environmental standards, it is strong, durable, reliable and re-usable.



Product specifications

Veneer

Thickness	4.1mm (nominal)
Species	Radiata pine (Density Average 480kg/m ³)
Grade	S (face/back) AS/NZS 2269
Joints Face	Scarf
Joints Other	Scarf

Moisture content 8%-15%

Dimensional tolerances

Length	-0 + 20mm
Width	-0 + 2mm
Thickness	-0 + 4mm

Density (mean) 550kg/m³ (approximately)

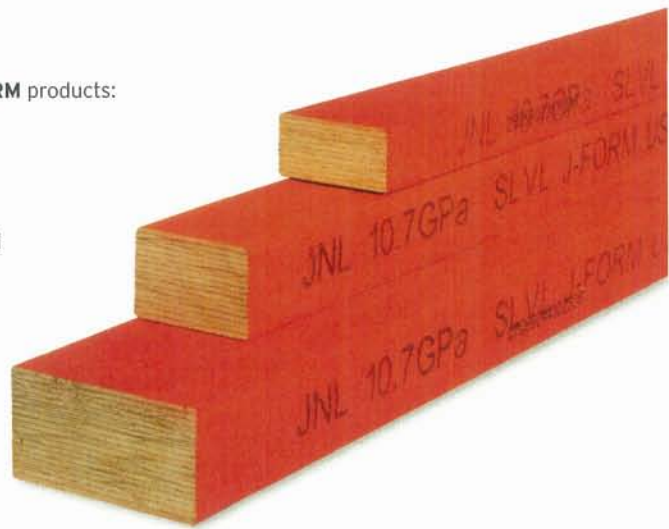
Bonds Type A (phenolic formaldehyde)
AS 2098.2
AS 2754.1

Finish High quality veneers are used for the surface of the LVL. Splintering is minimised by edge dressing and sanding of face and back. All longitudinal edges are arrised (clean edged).

Marking

The following details are branded along the face of all **J-FORM** products:

IDENTIFICATION:	J-FORM S-LVL
STANDARD:	AS/NZS 4357.0
LIMITATIONS:	Use on edge only
MAXIMUM SPAN:	See tables
PAA CERTIFIED MILL NUMBER:	Mill 922 EWPA certified
MANUFACTURER:	JNL
BOND QUALITY:	A Bond
FORMALDEHYDE EMISSION:	Eo
STRENGTH:	8.0Gpa / 10.7Gpa





Verification testing

Standard verification testing is regularly completed both in the Mill and independently by EWPAA

- Bond quality "A" bond board chisel test (dry, in house test)
- Bond quality "A" bond chisel test (wet, 72 hour boil in accordance with AS2098.2)
- Bond quality "A" bond samples submitted to EWPAA for independent AS2098.2 testing as per EWPAA certification requirements
- Structural properties. No less than 1 in 250 or every 2 hours of production
- Structural properties. No less than 1 in 250 or every 2 hours of production

J-FORM LVL properties and specifications

Standard sizes of J-FORM LVL

95 x 47, 95 x 65, 150 x 77

Specification

J-FORM LVL is manufactured under requirements of AS/NZS 4357.
 Laminated 4.1mm Radiata Pine Veneer with A-bond glue to meet Marine grade controlled moisture content of 8 to 15% with product density of ave. 550kg/m³.
 Product Tolerance THK -0,+4mm WDT -0,+2mm, LGT -0,+20mm.
 Product Length is available in 3.0, 3.3, 3.6, 4.2, 4.8, 5.4 and 6.0m.

J-FORM LVL Characteristic Strength Properties (8.0Gpa)	
Bending	30MPa
Shearing	4.1MPa
Modulus of Elasticity	8,000MPa

J-FORM LVL Characteristic Strength Properties (10.7Gpa)	
Bending	43MPa
Shearing	3.8MPa
Modulus of Elasticity	10,700MPa

Care maintenance and storage

Avoiding damage

Misuse of **J-FORM** may cause the product to become damaged and unsafe. The following recommendations are made to avoid reduced service life;

- Heavy materials should not be dropped onto **J-FORM**
- **J-FORM** should not be dropped from excessive heights
- **J-FORM** should not be used over spans greater than those recommended
- Avoid burns to **J-FORM** from oxy cutting or welding
- **J-FORM** should not be driven over by vehicles or used as crossover boards for vehicles

Chemical effects

Moderate strength acids or alkalis (pH range 2 to 10) will have little effect on **J-FORM**.

Strong acids and alkalis will attack the natural lignin which binds wood fibre and cause loss of strength.

Fungal decay

Decay is unlikely when **J-FORM** is installed, and stored properly. They are tolerant of moderate changeable weather conditions, but wet storage for prolonged periods will encourage decay.

Typically where product have decayed, the decay has resulted from storage when wet with little or no separation or ventilation. Product that remains constantly wet for long periods (months) is likely to result in fungal decay.

J-FORM that shows signs of fungal decay (eg. mould on the surface etc) should be dried and verification tested for confirmation of integrity before re-use.

Recommendations for storage

- Dry Product
 - No special requirement if stored under cover
 - Stack as for wet planks if stored outside
- Wet Product
 - Stack on level bearers clear of the ground with spacers between each layer
 - Stack in a dry, well ventilated location and align spacers with bearers
 - A minimum of three bearers/spacers per layer is recommended with spans of no more than 2.0m



Juken New Zealand Ltd

J-FORM, J-PLANK, J-PLY, J-FRAME and other high quality wood products are manufactured by Juken New Zealand Ltd. We have a proud reputation for producing **high quality, innovative and functional wood products** using **modern, environmentally-friendly** methods and materials. We only use wood from **sustainably managed plantation forests** – mainly our own radiata pine forests which are located close to our manufacturing plants.

Limitations

All products and relative statements within this document are subject to the applicable products being installed, removed, stored and handled in accordance with information mentioned, and subject to any governing codes of practice. Juken New Zealand Ltd retains the right to change specifications without notice in accordance with its policy of continued product development. Every care has been taken in preparing the information contained within this publication, however, the company cannot accept responsibility for any inaccuracies that may have arisen, and cannot accept liability for loss or damage either direct or consequential arising out of or in relation to use or application of the said information.

Health and safety precautions must be taken when handling large products. Refer to relevant Material Safety Data Sheets (MSDS) which are available from the product manufacturer



J-FORM LVL Property, Specification and Span Tables

J-Form LVL Bearer Table for Slab Soffits framework (8.0Gpa)

Concrete Slab	J-form size	Bearer Spacings (mm)											
Thickness (mm)	(mm)	900	1200	1500	1800	2100	2400	900	1200	1500	1800	2100	2400
		Maximum Single Span (m)						Maximum Multiple Span (m)					
100	95x47	1.0	0.9	1.8	0.7	-	-	1.1	0.9	0.8	0.7	-	-
	95x65	1.2	1.0	0.9	0.8	0.8	0.7	1.2	1.1	1.0	0.9	0.8	0.7
	150x77	1.9	1.7	1.6	1.5	1.3	1.3	2.1	1.8	1.7	1.5	1.4	1.3
150	150x77	0.9	0.8	0.7	0.6	-	-	1.0	0.9	0.7	0.6	-	-
	95x65	1.1	1.0	0.9	0.8	0.7	0.6	1.2	1.0	0.9	0.8	0.7	0.6
	150x77	1.8	1.6	1.5	1.4	1.3	1.2	2.0	1.7	1.5	1.4	1.3	1.2
200	150x77	1.7	1.6	1.4	1.3	1.2	1.1	1.9	1.6	1.5	1.3	1.2	1.1
300	150x77	1.6	1.4	1.3	1.2	1.0	0.9	1.7	1.5	1.3	1.2	1.0	0.9
400	150x77	1.5	1.3	1.2	1.0	0.8	0.7	1.6	1.4	1.2	1.0	0.8	0.7
600	150x77	1.3	1.2	0.9	0.7	0.6	-	1.4	1.1	0.9	0.7	0.6	-
1000	150x77	1.1	0.8	0.6	-	-	-	1.0	0.8	0.6	-	-	-

J-Form LVL Joist Table for Slab Soffits framework (8.0Gpa)

Concrete Slab	J-form size	Joist Spacings (mm)											
Thickness (mm)	(mm)	225	300	400	450	480	600	225	300	400	450	480	600
		Maximum Single Span (m)						Maximum Multiple Span (m)					
100	95x47	1.7	1.5	1.4	1.3	1.3	1.2	2.1	1.8	1.6	1.5	1.4	1.3
	95x65	1.9	1.7	1.5	1.5	1.4	1.3	2.5	2.1	1.9	1.8	1.7	1.5
	150x77	3.2	2.9	2.6	2.5	2.4	2.2	4.2	3.7	3.2	3.0	2.9	2.6
150	95x47	1.6	1.4	1.3	1.2	1.2	1.1	2.0	1.7	1.5	1.4	1.4	1.2
	95x65	1.8	1.6	1.5	1.4	1.4	1.3	2.6	2.0	1.7	1.6	1.6	1.4
	150x77	3.0	2.7	2.4	2.3	2.3	2.1	4.0	3.5	3.0	2.8	2.7	2.4
200	95x47	1.5	1.4	1.2	1.2	1.1	1.0	1.9	1.6	1.4	1.3	1.3	1.1
	95x65	1.7	1.5	1.4	1.3	1.3	1.2	2.2	1.9	1.6	1.5	1.5	1.3
	150x77	2.8	2.6	2.3	2.2	2.2	2.0	3.8	3.3	2.8	2.7	2.6	2.3
300	95x47	1.4	1.2	1.1	1.1	1.0	1.0	1.7	1.5	1.3	1.2	1.2	1.0
	95x65	1.6	1.4	1.3	1.2	1.2	1.1	2.0	1.7	1.5	1.4	1.4	1.2
	150x77	2.6	2.4	2.1	2.0	2.0	1.8	3.4	3.0	2.6	2.4	2.3	2.1
400	95x47	1.3	1.2	1.0	1.0	1.0	0.9	1.6	1.3	1.2	1.1	1.1	1.0
	95x65	1.5	1.3	1.2	1.1	1.1	1.0	1.8	1.6	1.4	1.3	1.3	1.1
	150x77	2.4	2.2	2.0	1.9	1.9	1.7	3.1	2.7	2.4	2.2	2.1	1.9
600	95x47	1.2	1.0	0.9	0.9	0.9	0.8	1.4	1.2	1.0	1.0	0.9	0.8
	95x65	1.3	1.2	1.1	1.0	1.0	0.9	1.6	1.4	1.2	1.1	1.1	1.0
	150x77	2.2	2.0	1.8	1.7	1.7	1.5	2.7	2.4	2.1	1.9	1.9	1.7
1000	95x47	1.0	0.9	0.8	0.7	0.7	-	1.1	1.0	0.8	0.8	0.7	-
	95x65	1.1	1.0	0.9	0.9	0.8	0.8	1.3	1.1	1.0	0.9	0.9	0.8
	150x77	1.9	1.7	1.5	1.5	1.4	1.3	2.3	2.0	1.7	1.6	1.6	1.4

J-FORM LVL Property, Specification and Span Tables

J-Form LVL Bearer Table for Slab Soffits framework (10.7Gpa)

Concrete Slab	J-form size	Bearer Spacings (mm)											
Thickness (mm)	(mm)	900	1200	1500	1800	2100	2400	900	1200	1500	1800	2100	2400
		Maximum Single Span (m)						Maximum Multiple Span (m)					
100	95x47	1.1	1.0	0.8	0.7	-	-	1.3	1.0	0.8	0.7	-	-
	95x65	1.3	1.1	1.0	1.0	0.8	0.7	1.5	1.3	1.1	1.0	0.8	0.7
	150x77	2.1	1.9	1.8	1.6	1.5	1.3	2.6	2.2	2.0	1.8	1.5	1.3
150	150x77	1.0	0.9	0.7	0.6	-	-	1.2	0.9	0.7	0.6	-	-
	95x65	1.2	1.1	1.0	0.8	0.7	0.6	1.4	1.2	1.0	0.8	0.7	0.6
	150x77	2.0	1.8	1.7	1.5	1.4	1.2	2.4	2.1	1.9	1.6	1.4	1.2
200	150x77	1.9	1.7	1.6	1.4	1.2	1.1	2.3	2.0	1.7	1.4	1.2	1.1
300	150x77	1.7	1.6	1.4	1.2	1.0	0.9	2.0	1.7	1.4	1.2	1.0	0.9
400	150x77	1.6	1.4	1.2	1.0	0.8	0.7	1.9	1.5	1.2	1.0	0.8	0.7
600	150x77	1.4	1.2	0.9	0.7	0.6	-	1.5	1.1	0.9	0.7	0.6	-
1000	150x77	1.2	0.8	0.6	-	-	-	1.0	0.8	0.6	-	-	-

J-Form LVL Joist Table for Slab Soffits framework (10.7Gpa)

Concrete Slab	J-form size	Joist Spacings (mm)											
Thickness (mm)	(mm)	225	300	400	450	480	600	225	300	400	450	480	600
		Maximum Single Span (m)						Maximum Multiple Span (m)					
100	95x47	1.8	1.7	1.5	1.4	1.4	1.3	2.5	2.2	1.9	1.8	1.7	1.5
	95x65	2.1	1.9	1.7	1.6	1.6	1.5	2.7	2.5	2.2	2.1	2.0	1.8
	150x77	3.4	3.1	2.8	2.7	2.7	2.5	4.6	4.2	3.8	3.6	3.5	3.1
150	95x47	1.7	1.6	1.4	1.4	1.3	1.2	2.3	2.0	1.8	1.7	1.6	1.4
	95x65	1.9	1.8	1.6	1.5	1.5	1.4	2.6	2.3	2.1	2.0	1.9	1.7
	150x77	3.3	2.9	2.7	2.6	2.5	2.3	4.3	3.9	3.6	3.4	3.3	2.9
200	95x47	1.6	1.5	1.3	1.3	1.3	1.1	2.2	1.9	1.7	1.6	1.5	1.4
	95x65	1.8	1.7	1.5	1.4	1.4	1.3	2.5	2.2	2.0	1.9	1.8	1.6
	150x77	3.1	2.8	2.5	2.4	2.4	2.2	4.1	3.7	3.4	3.2	3.1	2.8
300	95x47	1.5	1.4	1.2	1.1	1.1	1.0	2.0	1.7	1.5	1.4	1.4	1.2
	95x65	1.7	1.5	1.4	1.3	1.3	1.2	2.3	2.1	1.8	1.7	1.6	1.5
	150x77	2.9	2.6	2.3	2.2	2.2	2.0	3.8	3.4	3.1	2.9	2.8	2.5
400	95x47	1.4	1.3	1.1	1.1	1.1	1.0	1.9	1.6	1.4	1.3	1.3	1.1
	95x65	1.6	1.4	1.3	1.2	1.2	1.1	2.1	1.9	1.6	1.5	1.5	1.3
	150x77	2.7	2.4	2.2	2.0	2.0	1.9	3.6	3.2	2.8	2.7	2.6	2.3
600	95x47	1.3	1.1	1.0	0.9	0.9	0.9	1.6	1.4	1.2	1.2	1.1	0.9
	95x65	1.4	1.3	1.2	1.1	1.1	1.0	1.9	1.7	1.4	1.4	1.3	1.2
	150x77	2.4	2.2	2.0	1.8	1.8	1.7	3.2	2.9	2.7	2.3	2.3	2.0
1000	95x47	1.1	1.0	0.8	0.7	0.7	-	1.3	1.2	0.9	0.8	0.7	-
	95x65	1.2	1.1	1.0	0.9	0.9	0.8	1.6	1.4	1.2	1.1	1.0	0.8
	150x77	2.1	1.9	1.7	1.6	1.6	1.4	2.7	2.4	2.0	1.9	1.9	1.5