



ReadyLam®

Product Guide



 www.redstagtimberlab.co.nz

 auckland@redstag.co.nz

 +64 9 253 9349



ReadyLam® Product Guide

Red Stag ReadyLam® products are our range of ready-to-go engineered wood products. This guide is intended for merchant supply chains and to assist builder conversations.

ReadyLam® is offered in standard sizes with stock on hand, eliminating delays and uncertainty typical of custom options, while maintaining high performance and consistent quality.

Why ReadyLam®?

In stock. Available Now! – Premanufactured and held in stock for immediate pickup from our Auckland branch or delivery, providing predictable and reliable supply when builders need it.

Engineered Quality – Manufactured in factory-controlled conditions from structural-grade New Zealand radiata pine, engineered for strength, straightness, and consistency. Delivers the same engineered quality and structural performance as custom-made glulam products.

Reduced Cost – All ReadyLam® products are made in cost-efficient bulk processes, offering reduced cost solutions compared to made-to-order products.

Standard Sizes – A range of standard sizes to suit your needs, simple to design with, order, manage and use.

Product Range – Our ReadyLam® range of beams and posts are designed to suit most building applications.

Designed for Merchants. Trusted by Builders.

👉 **Contact Red Stag TimberLab** to discuss availability, pricing and merchant support.

👉 **Ask your local merchant** about delivery options and supporting technical information.



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Product Overview

Exterior Glulam

A stocked range of common sizes of H3.2 & H5 treated glulam posts and beams, delivering the structural performance and visual quality glulam is known for. Products are held in standard sizes to support fast-moving construction, including pergolas, verandas, decks and fencing applications.

Key Features

- + Engineered Glulam, manufactured from pressure-treated New Zealand Radiata Pine for outstanding exterior performance.
- + Posts: 90x90mm through to 180x180mm.
- + Beams: 180x65mm through to 270x135mm.
- + Excellent strength-to-weight ratio.
- + Lower cost than custom-made glulam.
- + Manufactured under AS/NZS 1328.1.

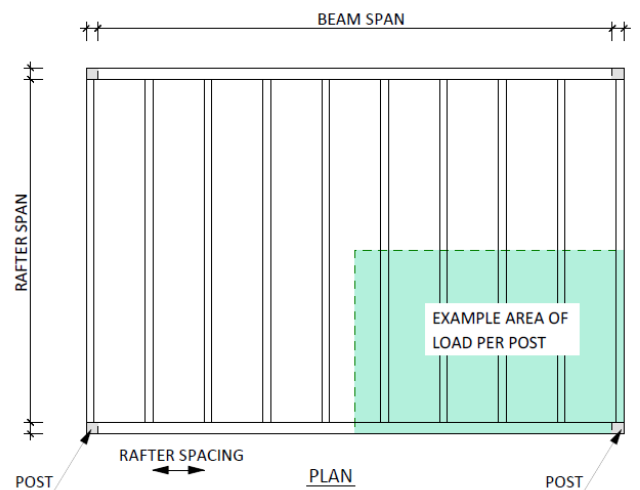
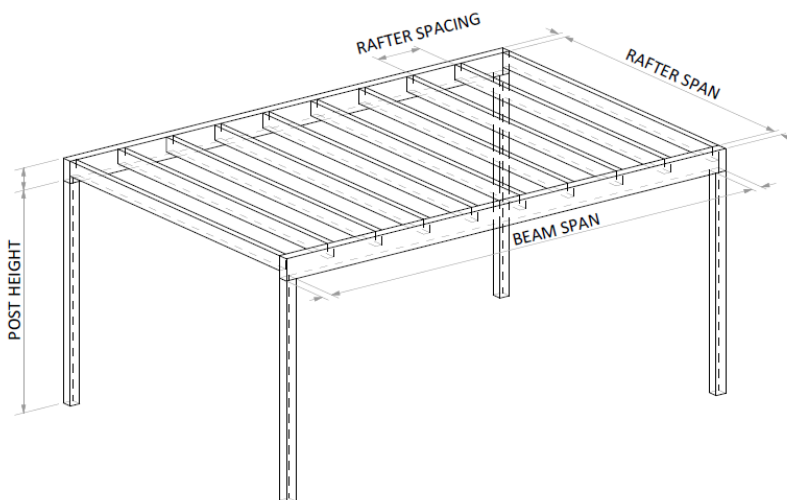


Product List

Product list of GL8 beams: clean dressed, radius corners, with one coat of sealer.

Item	Depth (mm)	Width (mm)	Treatment	Available Lengths (m)
Post	90	90	H3.2	2.7 / 3.0
Post	90	90	H5	3.6 / 3.9
Post	135	135	H3.2	2.7 / 3.0 / 3.3 / 3.6
Post	135	135	H5	3.6 / 3.9 / 4.2
Post	180	180	H3.2	2.7 / 3.0 / 3.3 / 3.6
Post	180	180	H5	3.6 / 3.9 / 4.2
Beam	180	65	H3.2	4.8 / 5.4 / 6.0 / 6.6
Beam	180	90	H3.2	4.8 / 5.4 / 6.0 / 6.6
Beam	225	90	H3.2	4.8 / 5.4 / 6.0 / 6.6 / 7.2
Beam	270	90	H3.2	4.8 / 5.4 / 6.0 / 6.6 / 7.2 / 7.8
Beam	180	135	H3.2	4.8 / 5.4 / 6.0 / 6.6
Beam	225	135	H3.2	4.8 / 5.4 / 6.0 / 6.6
Beam	270	135	H3.2	4.8 / 5.4 / 6.0 / 6.6 / 7.2

Span Tables



Beam Span (Without Roof Covering)

Rafter Span (mm)	1800	2400	3000	3600	4200
Beam Size (mm)	Maximum Beam Span (mm)				
180 x 90	5330	5080	4880	4620	4430
225 x 90	6160	5880	5680	5490	5340
270 x 90	6930	6460	6420	6210	6050
180 x 135	5660	5430	5240	5080	4920
225 x 135	6510	6270	6060	5890	5750
270 x 135	7280	7040	6830	6650	6470

Beam Span (With Roof Covering)

Rafter Span (mm)	1800	2400	3000	3600	4200
Beam Size (mm)	Maximum Beam Span (mm)				
180 x 90	5090	4770	4510	4290	4110
225 x 90	5910	5630	5400	5210	5050
270 x 90	6660	6360	6120	5910	5730
180 x 135	5440	5190	4990	4820	4590
225 x 135	6280	6010	5810	5620	5460
270 x 135	7040	6770	6550	6360	6190

Rafter Span (Without Roof Covering)

Rafter Spacing (mm)	600	750	900	1000	1200
Rafter Size (mm)	Maximum Rafter Span (mm)				
180 x 65	5760	5590	5440	5350	5180
180 x 90	5980	5830	5770	5620	5470
225 x 90	6840	6690	6550	6470	6320
270 x 90	7620	7470	7330	7240	7090

Rafter Span (With Roof Covering)

Rafter Spacing (mm)	600	750	900	1000	1200
Rafter Size (mm)	Maximum Rafter Span (mm)				
180 x 65	5440	5250	5090	4990	4750
180 x 90	5700	5520	5370	5280	5120
225 x 90	6550	6370	6210	6120	5940
270 x 90	7300	7140	6980	6880	6700



Rafter and Beam Design Basis:

Gravity loads only (Without roof covering: DL = 0.00 kPa, LL = 0.25 kPa).

Gravity loads only (With roof covering: DL = 0.05 kPa (metal roof), LL = 0.25 kPa).

Deflection limits: SLS (Short-term) = L/300, SLS (Long-term) = L/250.

Additional deflection criteria: Midspan deflection limited to a maximum of 20 mm.

Creep factor = 3.

Rafter self-weight considered based on a timber density of 500 kg/m².

Spans have been determined considering gravity loads only (1.2G+1.5Q).

Rafter size is assumed to be 65 mm × 180 mm with a tributary width of 1000 mm. The design has been checked for gravity loads only (Case 2: DL = 0.05 kPa (metal roof), LL = 0.25 kPa).

Post

Post Size	Height	Maximum Roof Area Per Post
90 mm x 90 mm	2100 mm	3.0 m ²
	2400 mm	2.7 m ²
	2700 mm	2.5 m ²
	3000 mm	2.3 m ²
135 mm x 135 mm	2100 mm	9.7 m ²
	2400 mm	8.8 m ²
	2700 mm	8.1 m ²
	3000 mm	7.5 m ²
	3300 mm	6.5 m ²
	3600 mm	5.5 m ²
180 mm x 180 mm	2100 mm	23.0 m ²
	2400 mm	20.7 m ²
	2700 mm	19.0 m ²
	3000 mm	17.5 m ²
	3300 mm	15.5 m ²
	3600 mm	13.5 m ²

Red Stag GL8 Characteristic Strength and Elastic Modulus.

Bending	Tension Parallel to Grain	Shear in Beam	Compression Parallel to Grain	Short Modulus of Elasticity Parallel to End grain	Short Modulus of Rigidity for Beams
19 MPa	10 MPa	3.7 MPa	18 MPa	8000 MPa	530 MPa



Additional Information

Red Stag TimberLab (RSTL) holds certification licensed by Bureau Veritas to AS/NZS 1328.1 for glulam manufacturing and AS 5068 for finger jointing.

<p>BUREAU VERITAS Certification</p> <hr/> <p>RED STAG TIMBERLAB LIMITED</p> <hr/> <p>AS/NZS 1328.1 Glued laminated structural timber</p>	<p>BUREAU VERITAS Certification</p> <hr/> <p>RED STAG TIMBERLAB LIMITED</p> <hr/> <p>AS 5068 Timber – Finger joints in structural products</p>
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Our Commitment to Sustainability

RSTL reduces reliance on non-renewable resources by converting sustainably grown New Zealand Radiata Pine into high-performance structural timber. Choosing ReadyLam® means choosing a material that stores carbon, supports renewable forestry, and delivers strength and durability.

FSC® Certified Timber

RSTL is licensed for the supply of FSC® certified timber. Material is sourced from renewable New Zealand Radiata Pine plantation forests that are sustainably managed under internationally recognised FSC® standards.

FSC® C009878 • Licence for Supply of FSC® Certified Timber

Carbon & EPD

Red Stag holds an Environmental Product Declaration (EPD) for NZ timber products. Our site is powered by 100% renewable energy, making us New Zealand's lowest carbon structural timber supplier.

EPD Certified • 100% Renewable Energy Manufacturing

Need Something Custom?

Red Stag TimberLab designs and manufactures bespoke engineered timber solutions for projects of every scale and complexity.

 **Get in touch** to discuss your project. OR  auckland@redstag.co.nz





-  9 Bostock Place, East Tamaki, 2013
-  www.redstagtimberlab.co.nz
-  auckland@redstag.co.nz
-  +64 9 253 9349

