NeXTimber®
by Timberlink

NeXTimber®
Glue Laminated Timber

NeXTimber®: It's what better tomorrows are built on.

NeXTimber® by Timberlink manufactures Australian made Engineered Wood Products (EWP) and provides mass timber building solutions using Glue Laminated Timber (GLT) members.

Made from responsibly sourced Australian plantation pine, NeXTimber® GLT is produced at a purpose-built manufacturing plant co-located on Timberlink's existing manufacturing site in Tarpeena, South Australia.

A Link from Seed to Structure

NeXTimber® feedstock is sourced from the co-located Timberlink mill with dual certified sustainability credentials.

Timberlink Australia holds an FSC® chain of custody and controlled wood certificate covering our Australian mills and distribution centres for the production and distribution of sawn timber, woodchips, and all by-products including reject logs, sawdust and charcoal (FSC® C117015). Timberlink products are made of FSC® certified and other controlled material. By choosing Timberlink Australia products, you are supporting responsible management of forests.

Timberlink also holds Responsible Wood Chain of Custody certification at both Australian sites for solid wood products and by-products (Including woodchip) covering both our Australian mills, Licence number 100872.

Scope of Document

This document has been prepared to give guidance on the use, application and technical properties of NeXTimber® GL13 Glue Laminated Timber products.

Information in this guide is current as at date of publishing, and is of general nature only and has not been prepared with your specific project needs in mind. It contains some suggested considerations when using NeXTimber® GLT, but is not advice. It is the responsibility of the user to ensure that the use of this guide and NeXTimber® products is appropriate to the relevant application and exercise their own professional judgment in doing so.

Referenced Grading and Manufacturing Standards

- AS/NZS 4063:1992 – Timber-stress-graded in-grade strength and stiffness evaluation
- AS/NZS 1328.1:1998 – Performance requirements and minimum production requirements
- AS 5068:2006 – Finger joints in structural products – production requirements
- AS 1720.1 – 2010 – Timber structures

Technical Information

Typical Structural Applications

- Lintels
- Ridge Beams
- Verandah Beams
- Roof Beams
- Floor Joists

Appearance

NeXTimber® GLT comes with a planed finish and arrised edges. As defined in AS 1328.1, this finish is generally acceptable for use with surface finishes where a machined planed finish is visually acceptable. Occasional skips in the surface as well as minor blemishes and voids may be present in finished products.

Product Use and Limitations

H3 treated NeXTimber® GLT

H3 treated NeXTimber® GLT may be used in external, above-ground applications where special consideration is given to level of weather and ground clearance.

H3 treated NeXTimber® GLT should not to be used for in-ground applications.

Untreated NeXTimber® GLT

Untreated NeXTimber® GLT should not be used in external – above OR in ground applications. Untreated timber should only be used in internal areas where there is adequate protection and ventilation from the elements.

Engineering Design

Engineering design and certification of NeXTimber® GLT products for structural applications must be carried out by a qualified structural engineer.

NeXTimber® GLT Technical Specifications

Grade	Modulus of Elasticity (MPa)	Modulus of Rigidity (MPa)	Bending Strength (f'j MPa)	Tensile Strength parallel to grain (f't, MPa)	Shear Strength in beams/ members (f's, MPa)	Compressive Strength parallel to grain (f'c, MPa)
GL13	13 300	900	33	16	4.2	26

Wood Species	Australian grown plantation Radiata Pine
Density	480-560 kg/m^3
Strength Group	SD6
Joint Group	JD5
Adhesive- Finger Joints	Melamine Formaldehyde
Adhesive- Face	Melamine Formaldehyde
Lamella Thickness	42mm
Beam/ member widths	65, 85, 115 and 135mm
Beam/ member lengths	2.4m to 12m in 600mm increments*
Feedstock Preservative Treatments	Untreated OR Preservative treated to Hazard Class 3 in accordance with AS/NZS 140.1 (external above ground only)

*Stocked range size varies by state. Contact your Account Manager or further details.

NeXTimber® GLT Properties in accordance with AS 1720.1 Table 6

Technical Specifications continued

Standard Sizes

NeXTimber® have a range of standard size GLT as well as made to order sizing. A range of standard sizes will be stocked and ready to dispatch to selected states from our distribution centres.

Please contact your Account Manager or our Customer Service team on 1800 088 135 for information on delivery to your state.

65	85	115	135
126 x 65	126 x 85	126 x 115	126 x 135
168 x 65	168 x 85	168 x 115	168 x 135
210 x 65	210 x 85	210 x 115	210 x 135
252 x 65	252 x 85	252 x 115	252 x 135
294 x 65	294 x 85	294 x 115	294 x 135
336 x 65	336 x 85	336 x 115	336 x 135
378 x 65	378 x 85	378 x 115	378 x 135
420 x 65	420 x 85	420 x 115	420 x 135
462 x 65	462 x 85	462 x 115	462 x 135
504 x 65	504 x 85	504 x 115	504 x 135
546 x 65	546 x 85	546 x 115	546 x 135
588 x 65	588 x 85	588 x 115	588 x 135
630 x 65	630 x 85	630 x 115	630 x 135

NeXTimber® Designation

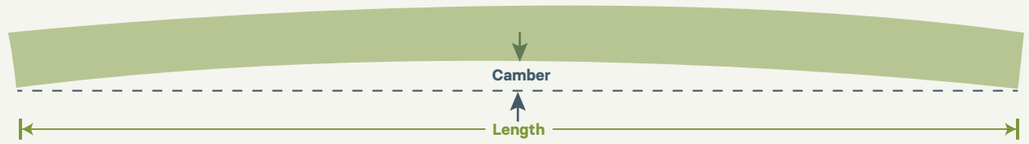
NX GL13C – H3

NX	Manufacturer - NeXTimber® by Timberlink
GL13	Timber Grade in accordance with AS 1328.2
C	C = Cambered, S = Straight
H3	H3 = Treatment, UT = Untreated

Cambered Profiles

NeXTimber® GLT beams can be supplied either straight or with an Australian industry standard 600m radius to compensate for initial deflection and are designated with 'C' following the grade as per the above designation table. NeXTimber® cambered beams come labelled, indicating the top / outer radius of the camber. Unless specifically instructed, the beam should not be installed with the camber facing downwards.

Figure 1: Cambered Beam Diagram



Cambered Profiles Dimensions

Length (m)	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
Camber (mm)	1.9	2.6	3.3	4.2	5.2	6.3	7.5	8.8	10.2	11.7

Length (m)	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5
Camber (mm)	13.3	15.1	16.9	18.8	20.8	23.0	25.2	27.6	30.0	32.6

Supporting documents

Durability Technical Notes

The durability of timber in above-ground outdoor settings relies on input by the designers, builders and owners as well as undertaking regular maintenance. Please refer to the **NeXTimber® GLT Durability Technical Notes** document for our recommendations and guidance to assist achieving the expected durability and longevity when using our products.

Scan the QR code to view the brochure:

Storage and Handling

NeXTimber® GLT should be stored and handled with care as not to damage the product. Please refer to the **NeXTimber® GLT Storage and Handling** document for our recommendations.

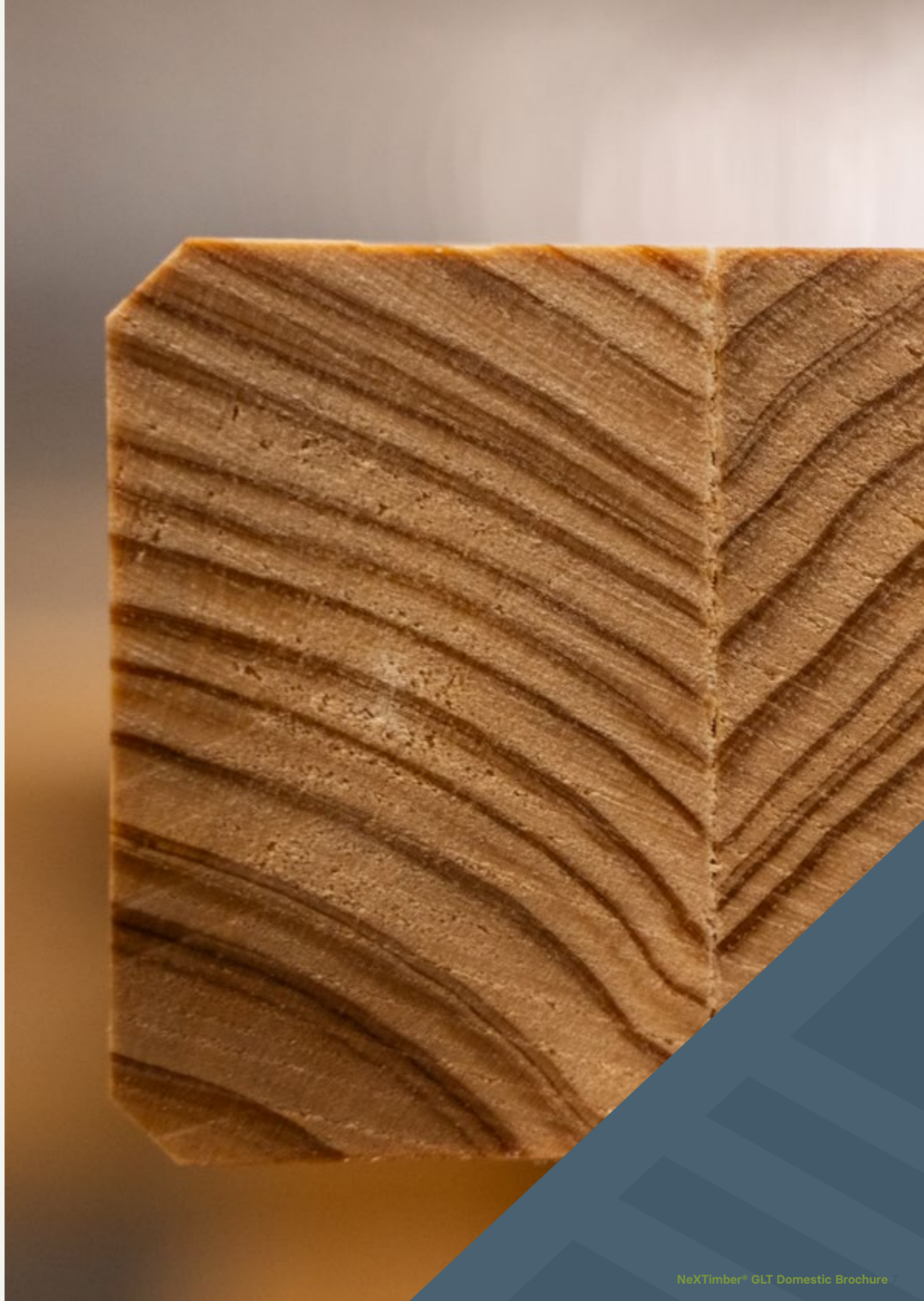
Scan the QR code to view the brochure:

Roof Member Span Tables

The application of the reported spans to site specific situations remains the responsibility of the design engineer. Please refer to the **NeXTimber® GLT Roof Member Span Tables** document which provides indicative allowable spans for the following house structural members:

- Single storey or upper storey lintels
- Ridge Beams
- Veranda Beams

Scan the QR code to view the brochure:



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