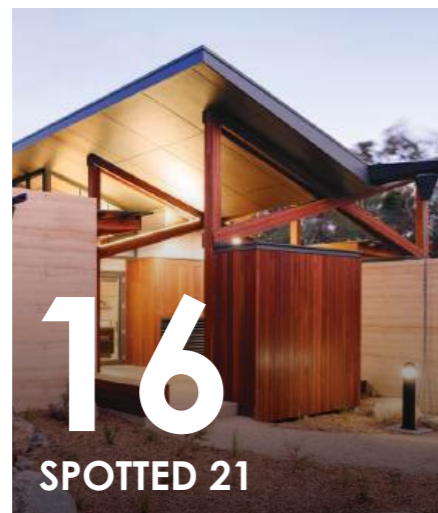




Premium quality Glulam Beams for your project

PRODUCT BROCHURE 2024





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Supplying a comprehensive solution for your Glulam projects



Established in Melbourne, Victoria, Vicbeam has been a leading manufacturer and supplier of structural glulam timber beams for over 20 years. We specialize in providing innovative solutions tailored to a wide range of applications. Our collaborative approach and commitment to building enduring relationships with our clients and suppliers set us apart.

Founded in 2003, Vicbeam recognized a gap in the market for reliable and high-quality glulam beams. With decades of experience in the industry, Andrew Wallace,

our visionary founder, leveraged his expertise to create a company that could deliver exceptional results. Under his guidance, Vicbeam developed a culture of innovation and

a can-do attitude. Today, managed by his sons, Joshua, Caleb, and Tim, Vicbeam remains a family-owned business dedicated to excellence.

Our guarantee to you

Vicbeam aims to establish itself as the go-to glulam supplier, offering exceptional customer service and top-tier products through our network of valued merchant partners.

By consistently delivering superior quality and a commitment to continuous improvement, Vicbeam seeks to expand its brand presence.

The company embraces a culture of integrity and excellence, ensuring that every aspect of its business aligns with these core values.



Explore our projects



Packington Residence



Hovey Curve Trusses'



Ballantyne Street



Scan the QR code or visit our website to explore a gallery of our latest projects and more.

ABOUT US

Your guarantee of quality and service



Vicbeam's unwavering commitment to quality is evident in our rigorous quality assurance and testing procedures.

Vicbeam is a long-standing member of the GLTAA and is certified as a qualified producer. We adhere to stringent industry standards, ensuring each product surpasses the highest quality expectations.

Our dedicated team conducts detailed in-house inspections at every manufacturing stage, from initial material selection to final sanding. This meticulous attention guarantees the durability, reliability, and safety of our glulam beams.

To further bolster our quality assurance, we also undergo independent testing through the GLTAA. This dual approach ensures that our products meet the highest industry standards, providing our customers with peace of mind.



Beam strength testing



Cleavage testing



Glue composition testing



Finger joint strength testing



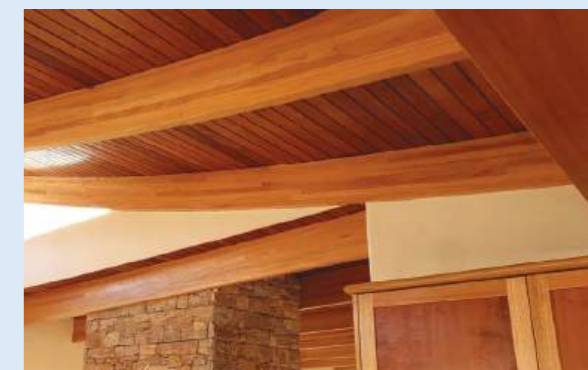
Explore our projects



Yallingup WA



St Kilda Townhouse



Kettering Tasmania



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Understanding Camber

Glulam beams come cambered as standard unless requested as straight.

A cambered beam means that a slight bend or curve is manufactured into the beam, so that when load is applied the beam will straighten. The curve is very slight, based on a 600m radius.

The curvature feature is designed to counter-act possible deflection due to added pressure on top, making cambered beams a beneficial feature to any kind of load bearing structure.

Beam Length	Camber	Beam Length	Camber	Beam Length	Camber
3.3 m	2.2 mm	6.3 m	8.9 mm	9.3 m	17.8 mm
3.6 m	2.7 mm	6.6 m	9.8 mm	9.6 m	18.9 mm
3.9 m	3.1 mm	6.9 m	10.1 mm	9.9 m	20.1 mm
4.2 m	4.2 mm	7.2 m	10.6 mm	10.2 m	21.4 mm
4.5 m	4.7 mm	7.5 m	11.5 mm	10.5 m	22.6 mm
4.8 m	5.3 mm	7.8 m	12.5 mm	10.8 m	23.9 mm
5.1 m	6.0 mm	8.1 m	13.5 mm	11.1 m	25.3 mm
5.4 m	6.7 mm	8.4 m	14.5 mm	11.4 m	26.7 mm
5.7 m	7.4 mm	8.7 m	15.5 mm	11.7 m	28.1 mm
6.0 m	8.1 mm	9.0 m	16.6 mm	12.0 m	29.6 mm

Custom Designed Curved Beam Solutions

At Vicbeam, we specialize in crafting unique curved glulam beams that push the boundaries of architectural design. Our expertise in bending timber allows us to create stunning, custom-made features that bring your vision to life.

Due to the complexity of curved beam production, we require specific details to ensure accurate manufacturing.

Essential Information:

Please provide finalized documents including timber species, radius range, beam size, chord length, and relevant drawings.

Our dedication to innovation, integrity, and consistent delivery guarantees that we will go the extra mile to meet your exact specifications.

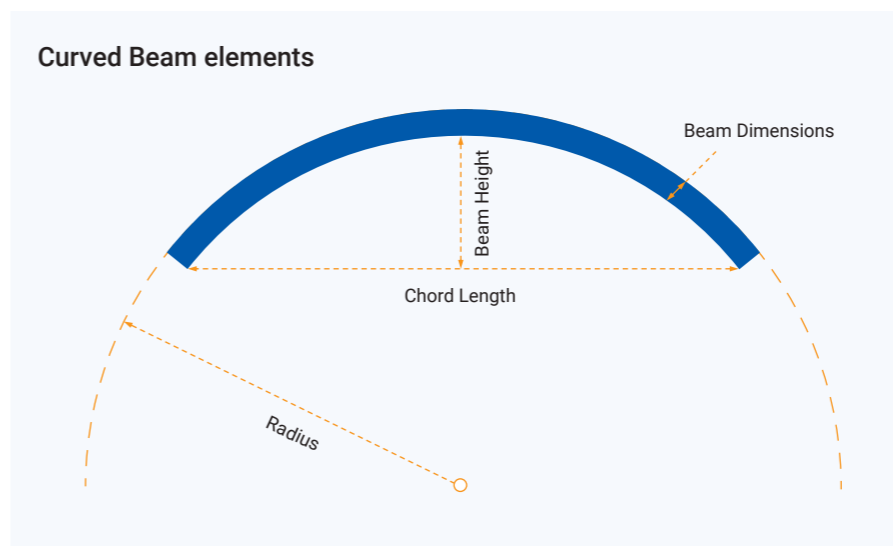
Technical Specifications:

Curve Radius:
From 500mm to 600m

Beam Size:
From 120mm to 600mm

Max. Chord Length:
From 1.2m to 12m

Ready to Explore Curved Beam Possibilities? Contact our Sales and Production Team today to discuss your project and discover how Vicbeam can help you create a truly exceptional structure.



Example of a 12.0m beam cambered to 29.6mm based on a 600m radius.

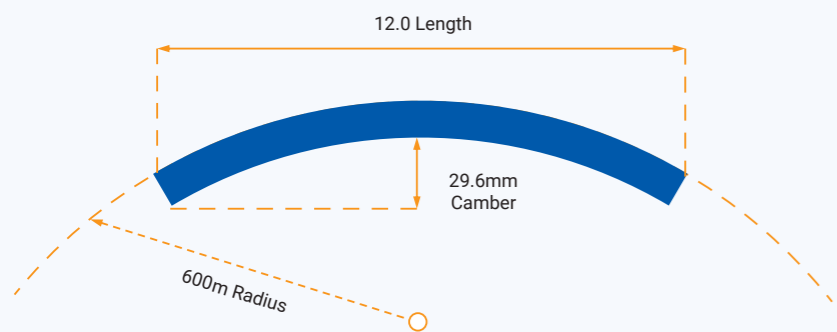
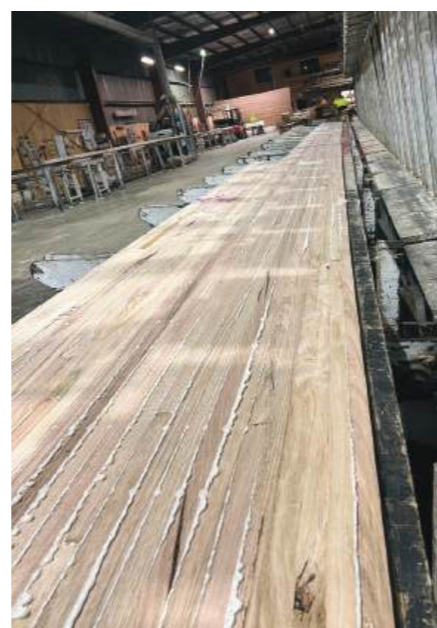


Diagram is not to scale and deliberately exaggerated and is intended only to illustrate the table.





Understanding Appearance Grades

There are three appearance grades for Glulam timber, all relating to the aesthetic appearance of the visible surface of members. Vicbeam provides A and B grades only.

A GRADE APPEARANCE



TASBEAM 15

This grade is intended for use in applications where appearance of the member is important and clear or painted finishes are used. All surface voids are filled or repaired. Unless specified otherwise, the surfaces are sanded to a minimum of 60 grit finish.

B GRADE APPEARANCE



VICBEAM 10

TASBEAM 15

This grade is intended for use in painted applications where surface appearance is important but machine planed finish is acceptable. Occasional skips in the surface are permissible and minor blemishes, voids and manufacturing want shall be acceptable. The outer-most laminations shall be free of loose knots and voids.

The table below provides a variety of appearances allowed or not allowed based on A, B and C grades.

	Tight Knots	Dead Knots	Checks	Bark	Wane	Voids	Gum Veins	Blue Stains*
A	●	●	●	●	●	●	●	●
B	●	●	●	●	●	●	●	●
C	●	●	●	●	●	●	●	●

● Allowed ● Not Allowed ● Classified as small or minimal appearances

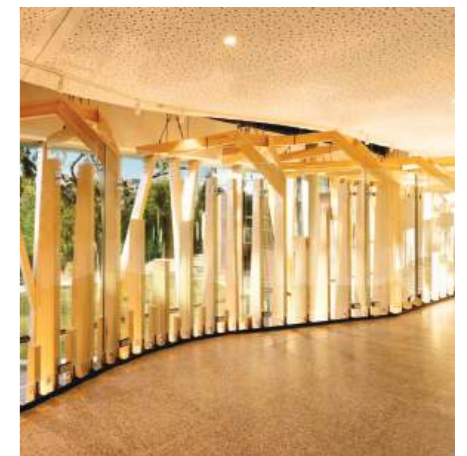
*Blue stains only appears occasionally in TASBEAM 10 Pine

Understanding Treatment

There are several factors involved in the service life of Glulam Timber Products. This includes the natural durability of the timber species and the Hazard Treatment Level applied (i.e. H1 – H5).

The purpose of Hazard Level Treatment is to increase durability and extend the life of timber products by protecting it from rot, decay and insects (termites). Wood preservative and insecticides enter the woods core making it reliable for construction, building and engineering purposes.

Our H3 treated wood products meet AS1604 standard and are backed by a 25year warranty to deliver a high-quality product for maximum durability within the Australian climate.



Understanding Coating

Preservative treatment only protects timber from rot, decay and insects. However, it doesn't keep the timber looking at its best. To keep timber looking good, it should be coated with paint, stain or water repellent.

Here at Vicbeam, we specialise in oil staining your timber for protective finishes from humidity and UV light. This includes direct exposure to air conditioning, moisture or hot elements (e.g. oven). Therefore, we highly suggest applying protective coating for jobs where timber will be exposed.

We find that glulam beams can be out in the weather for a number of weeks before being installed. By applying a

protective coat prior to delivery, the glulam beams are better protected from scuffs and inclement weather.

The oil-based coating penetrates the timber to provide weathering resistance while leaving the grain semi-exposed. This protective coating should be renewed annually for adequate protection of timber.

Vicbeam works with a variety of coating suppliers as specified or requested.



ACCLAM 8



Scan for more product information

DURABEAM 10



Scan for more product information

Product Information

Timber Species	Accoya
Durability <i>Outside above ground</i>	Durability Class 1+ (50 years)
Treatment	No further treatment offered
Camber	Available Cambered (600m radius) and Straight
Grade Appearance	A-Grade only



Engineering Properties

Glulam Grade	GL8
Bending Strength	fb = 19 MPa
Tension Strength	ft = 10 MPa
Shear Strength	fs = 3.7 MPa
Compression Strength	fc = 24 MPa
Modulus of Elasticity	E = 8,000 MPa
Modulus of Rigidity	G = 530MPa
Density	460 kg/m ³



Standard Beam Sizes (mm)

Custom sizes available upon request

45 x	166, 200, 233, 266, 300, 333, 366, 400
90 x	166, 200, 233, 266, 300, 333, 366, 400, 433, 466, 500, 533, 566, 600
140 x	166, 200, 233, 266, 300, 333, 366, 400, 433, 466, 500, 533, 566, 600



Standard Post Sizes (mm)

Custom sizes available upon request

Available on request



Accoya® wood is the result of decades of research and development combining the proven wood modification technique acetylation with leading-edge technology to create high-performance wood, ideal for glulam and structural timber design.

Radiata pine is modified through a non-toxic acetylation process that is sustainably certified and sets the new standard for wood performance. With a 50 year above and 25 year in ground warranty, Accoya® is a highly durable wood material proven to equal and outperform hardwoods. Some other key benefits of glulam made of Accoya® wood can also be found in its finish and sustainability qualities.

Product Information

Timber Species	White Cypress (Callitris glaucophylla)
Durability <i>Outside above ground</i>	Durability Class 1 (40+ years)
Treatment	No further treatment offered
Camber	Available Cambered (600m radius) and Straight
Grade Appearance	A-Grade only



Engineering Properties

Glulam Grade	GL10
Bending Strength	fb = 22 MPa
Tension Strength	ft = 11 MPa
Shear Strength	fs = 3.7 MPa
Compression Strength	fc = 26 MPa
Modulus of Elasticity	E = 10,000 MPa
Modulus of Rigidity	G = 670 MPa
Density	700 kg/m ³



Standard Beam Sizes (mm)

Custom sizes available upon request

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



Standard Post Sizes (mm)

Custom sizes available upon request

140x140, 200x200, 250x250, 300x300



VICBEAM 10



Scan for more product information

TASBEAM 13

Product Information

Timber Species	Radiata Pine (Pinus radiata)
Durability <i>Outside above ground</i>	Durability Class 4 (7 years)
Treatment	Available in H3 treated or untreated
Camber	Available Cambered (600m radius) and Straight
Grade Appearance	Available in B-Grade (structural) or A-Grade (Appearance)



Engineering Properties

Glulam Grade	GL10
Bending Strength	fb = 22 MPa
Tension Strength	ft = 11 MPa
Shear Strength	fs = 3.7 MPa
Compression Strength	fc = 26 MPa
Modulus of Elasticity	E = 10,000 MPa
Modulus of Rigidity	G = 670 MPa
Density	550 kg/m ³



Standard Beam Sizes (mm)

Custom sizes available upon request

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



Standard Post Sizes (mm)

Custom sizes available upon request

85x85, 115x115, 135x135, 190x190, 240x240, 300x300
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Product Information

Timber Species	Blend of plantation hardwoods (E. grandis & E. nitens)
Durability <i>Outside above ground</i>	Durability Class 2 (15-40 years)
Treatment	Available in H3 treated or untreated
Camber	Available Cambered (600m radius) and Straight
Grade Appearance	Available in B-Grade (structural) or A-Grade (Appearance)



Engineering Properties

Glulam Grade	GL13
Bending Strength	fb = 33 MPa
Tension Strength	ft = 16 MPa
Shear Strength	fs = 4.2 MPa
Compression Strength	fc = 26 MPa
Modulus of Elasticity	E = 13,300 MPa
Modulus of Rigidity	G = 796 MPa
Density	580 kg/m ³



Standard Beam Sizes (mm)

Custom sizes available upon request

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



Standard Post Sizes (mm)

Custom sizes available upon request

115x115, 135x135, 190x190



TASBEAM 15



Scan for more product information

TASBEAM 17

Product Information

Timber Species	Tasmanian Oak (Eucalyptus delegatensis, E. obliqua & E. regnans)
Durability <i>Outside above ground</i>	Durability Class 3 (7-15 years)
Treatment	Available in H3 treated or untreated
Camber	Available Cambered (600m radius) and Straight
Grade Appearance	Available in B-Grade (structural) or A-Grade (Appearance)



Engineering Properties

Glulam Grade	GL15
Bending Strength	fb = 38 MPa
Tension Strength	ft = 20 MPa
Shear Strength	fs = 4.2 MPa
Compression Strength	fc = 33 MPa
Modulus of Elasticity	E = 15,500 MPa
Modulus of Rigidity	G = 1,100 MPa
Density	650 kg/m ³



Standard Beam Sizes (mm)

Custom sizes available upon request

45 x	160, 180, 200, 220, 240, 260, 280, 300, 320, 340, 360
65 x	160, 180, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400, 420, 440
85 x	160, 180, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400, 420, 440, 460, 480, 500
115 x	160, 180, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400, 420, 440, 460, 480, 500
135 x	160, 180, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400, 420, 440, 460, 480, 500



Standard Post Sizes (mm)

Custom sizes available upon request

90x90, 115x115, 135x135, 190x190, 240x240, 300x300
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Product Information

Timber Species	Grandis (Eucalyptus grandis)
Durability <i>Outside above ground</i>	Durability Class 2 (15-40 years)
Treatment	Available in H3 treated or untreated
Camber	Available Cambered (600m radius) and Straight
Grade Appearance	Available in B-Grade (structural) or A-Grade (Appearance)



Engineering Properties

Glulam Grade	GL17
Bending Strength	fb = 40 MPa
Tension Strength	ft = 20 MPa
Shear Strength	fs = 4.2 MPa
Compression Strength	fc = 33 MPa
Modulus of Elasticity	E = 16,700 MPa
Modulus of Rigidity	G = 1,110 MPa
Density	750 kg/m ³



Standard Beam Sizes (mm)

Custom sizes available upon request

42 x	90, 140, 190, 240, 290
65 x	130, 165, 195, 230, 260, 295, 330, 360, 395, 425
85 x	130, 165, 195, 230, 260, 295, 330, 360, 395, 425, 460, 495, 525, 560, 590
130 x	130, 165, 195, 230, 260, 295, 330, 360, 395, 425, 460, 495, 525, 560, 590



Standard Post Sizes (mm)

Custom sizes available upon request

90x90, 115x115, 140x140





Product Information

Timber Species	Blackbutt (Eucalyptus pilularis)
Durability <i>Outside above ground</i>	Durability Class 1 (40+ years)
Bushfire Resistance	BAL29
Treatment	Available in H3 treated or untreated
Camber	Available Cambered (600m radius) and Straight
Grade Appearance	A-Grade only



Engineering Properties

Glulam Grade	GL18
Bending Strength	fb = 50 MPa
Tension Strength	ft = 25 MPa
Shear Strength	fs = 5.0 MPa
Compression Strength	fc = 50 MPa
Modulus of Elasticity	E = 18,500 MPa
Modulus of Rigidity	G = 1,230 MPa
Density	900 kg/m ³



Standard Beam Sizes (mm)

Custom sizes available upon request

40 x	120, 150, 180, 210, 240, 270, 300, 330, 360, 390, 420
60 x	120, 150, 180, 210, 240, 270, 300, 330, 360, 390, 420, 450, 480, 510, 540, 570, 600
80 x	120, 150, 180, 210, 240, 270, 300, 330, 360, 390, 420, 450, 480, 510, 540, 570, 600
110 x	120, 150, 180, 210, 240, 270, 300, 330, 360, 390, 420, 450, 480, 510, 540, 570, 600
130 x	120, 150, 180, 210, 240, 270, 300, 330, 360, 390, 420, 450, 480, 510, 540, 570, 600

Standard Post Sizes (mm)

Custom sizes available upon request

90x90, 115x115, 135x135, 190x190, 240x240, 300x300
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Product Information

Timber Species	Spotted Gum (Corymbia maculata, C. citriodora & C. henrii)
Durability <i>Outside above ground</i>	Durability Class 1 (40+ years)
Bushfire Resistance	BAL29
Treatment	Untreated only
Camber	Available Cambered (600m radius) and Straight
Grade Appearance	A-Grade only



Engineering Properties

Glulam Grade	GL21
Bending Strength	fb = 50 MPa
Tension Strength	ft = 10.2 MPa
Shear Strength	fs = 16.0 MPa
Compression Strength	fc = 13 MPa
Modulus of Elasticity	E = 21,000 MPa
Modulus of Rigidity	G = 1,400 MPa
Density	990 kg/m ³



Standard Beam Sizes (mm)

Custom sizes available upon request

63 x	120, 155, 185, 215, 245, 280, 300, 315, 350, 380, 410
83 x	120, 155, 185, 215, 245, 280, 300, 315, 350, 380, 410, 445, 475, 505, 535, 570, 600



Standard Post Sizes (mm)

Custom sizes available upon request

115x115, 135x135, 190x190, 240x240, 300x300





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