

Boix, with a long tradition in the timber sector and the production of solid wood products, presents the BOIX-Glulam Beam.

Pine glulam (glued laminated timber or glulam) is a structural timber element made of pine lamellas bonded together using structural adhesives.

It is widely used in roofs, porches, housing and structural applications.



Storage

Glulam beams must be stored correctly to prevent deformation, moisture absorption or cracking before installation.

Main recommendations:

- Raised off the ground
- Uniform support
- Protection from rain and direct sunlight
- Ventilation
- Avoid direct contact with water
- Correct positioning
- Protect edges and ends
- Ideal conditions:
 - » Moderate relative humidity
 - » Dry environment
 - » No continuous exposure to direct sunlight

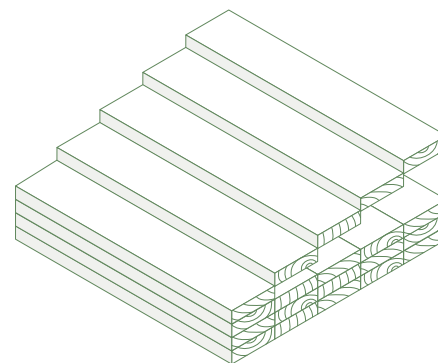


Outdoor use

For outdoor applications, pine glulam beams require a specific protective treatment, as the timber is exposed to moisture, UV radiation, temperature variations and other environmental factors.

Description

Wood species	Scots pine and black pine (<i>Pinus sylvestris</i> and <i>Pinus nigra</i>)
Composition	Between 20 and 40 mm
Bonding	PUR face bonding and MUF finger-jointed connections
Wood moisture content	12% ($\pm 2\%$) at delivery
Visual quality	Non-visible (NSI) Visible (SI)



Properties

Density	5.5 kN/m ³ for structural calculations; 520–580 kg/m ³ for transport weight determination
Thermal conductivity	$\lambda=0.12$ W/(m·K) in accordance with EN ISO 10456
Fire performance	Euroclass D-s2, d0

CE marking



EN 14081-1	Structural timber strength graded
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Dimensions

Depth	Width							
(mm)	45	60	80	100	120	140	160	200
90	45x90							
100		60x100	80x100	100x100				
120		60x120	80x120	100x120	120x120			
140			80x140	100x140	120x140	140x140		
160			80x160	100x160	120x160	140x160	160x160	
200				100x200	120x200	140x200	160x200	200x200
240				100x240	120x240	140x240	160x240	200x240
280					120x280	140x280	160x280	200x280
320						140x320	160x320	200x320
360							160x360	200x360
400							160x400	200x400

*Please consult us regarding the availability of additional sizes not included in this catalogue.