



Wood species

Southern yellow pine: Loblolly pine (*Pinus taeda*) and Slash pine (*Pinus elliottii*) from locally sourced FSC® certified plantations.

Sizes

Dimension	Unit	Magnitude
Width	mm	145/196 (5.7"/7.7")
Height	mm	up to 990 (39")
Length	m	up to 11.8 (38.7 ft)

Structural adhesive

- Single-component PUR. Cold-curing structural adhesive.
- In accordance with EN 15425 I 90 GP 0.3 w.
- Free of organic solvents or formaldehyde.
- Resistant to water, weak acids and bases, and organic solvents.

Treatment

Surface or impregnation treatment on request.

Finished sizes

Planned on four sides, with a 4 mm bevel on the top and bottom sides (measured diagonally).

GLT

Glued laminated timber made with structural finger-jointed solid timber, from machine-graded pine boards obtained from FSC® certified plantations.

Applications

- Beams for roofs, floors, and bridges
- Columns and posts
- Trusses and frames

Manufacturing

The manufacture and quality control are according to: EN 14080:2022 or ANSI A190.1:2022.

Standards and references

- EN 14080:2022 Timber structures - Glued laminated timber and glued solid timber - Requirements.
- EN 14081-1:2016+A1:2019 Timber structures - Strength-graded structural timber with rectangular cross-section - Part 1: General requirements.
- EN 14081-3:2022 Timber structures - Strength-graded structural timber with rectangular cross-section - Part 3: Machine grading; additional requirements for factory production control.
- EN 338:2016 Structural timber - Strength classes.
- EN 336:2014 Structural timber - Sizes, permitted deviations.
- ANSI A190.1-2022: Product standard for structural glued laminated timber. (ESR 5362).
- ANSI 405-2023: Standard for adhesives for use in structural glued laminated timber.
- EN 15425:2023: Adhesives - One component polyurethane (PUR) for load-bearing timber structures - Classification and performance requirements.

Strength classes

GL22c, GL22h and GL24h. Check 5362 for design values, according ANSI 190.1.

Property	Unit	GL22c	GL22h	GL24h
Bending strength parallel to the fibre, characteristic value ($f_{m,g,k}$)	N/mm ²	22	22	24
Modulus of elasticity in bending parallel to the fibre, average value ($E_{0,g,mean}$)	kN/mm ²	10.4	10.5	11.5
Density, characteristic value ($\rho_{g,k}$)	Kg/m ³	355	370	385

Certifications



According to
EN 14080.



ICC-ES Evaluated
ESR-5362.



The mark of
responsible forestry



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INTERNATIONAL EPD SYSTEM