



Spruce Glulam Specification - Strength Class GL 24h



DIMENSIONAL TOLERANCES AT A MOISTURE CONTENT 12%

Dimensions	Range	Tolerance
Width	All	± 2mm
Depth	$h \leq 400\text{mm}$	+ 4mm and - 2mm
	$h > 400\text{mm}$	+ 1.0% and - 0.5%
Length	$h \leq 2\text{m}$	± 2mm
	$2 \leq h \leq 20\text{m}$	± 0.1%
	$h > 20\text{m}$	± 20mm

CHARACTERISTIC VALUES TO BE USED IN DESIGN ACCORDING TO EUROCODE 5

Property	Strength Class - Homogeneous GL 24h
Bending Strength (N/mm^2)	24
Tension Strength (N/mm^2)	
- parallel to grain	16.5
- perpendicular to grain	0.40
Compression Strength (N/mm^2)	
- parallel to grain	24.0
- perpendicular to grain	2.7
Shear Strength (N/mm^2)	2.7
Modulus of Elasticity (N/mm^2)	
- parallel to grain (mean)	11600
- parallel to grain (5% fractile)	9400
- perpendicular to grain (mean)	390
Shear Modulus (N/mm^2)	720
Density (Kg/m^3)	380