

## Verso glulam

Versowood's glulam is made from strength-graded Finnish spruce and pine sawn timber by gluing layers of wood together. The gluing reduces significantly movement within the wood, resulting in an ecological building material that is cut to the exact size and shape in all directions. We make both standard-sized glulam products and bespoke products for projects. Glulam is particularly well-suited for applications requiring long span lengths for load-bearing structures.

WOOD TYPES: Norway spruce (*Picea abies*) and pine (*Pinus sylvestris*)

STRENGTH CATEGORIES: GL24c, GL28c, GL30c, GL32c

STRENGTH VALUES N/mm <sup>2</sup>	GL24c	GL28c	GL30c	
<b>BENDING</b> , $f_m, 0, g, k$	24	28	30	
<b>TENSION II</b> , $f_t, 0, g, k$	17	19.5	19.5	
<b>TRANSVERSE TENSION</b> , $f_{t, 90, g, k}$	0.5			
<b>COMPRESSION II</b> , $f_c, 0, g, k$	21.5	24	24.5	
<b>COMPRESSION AT RIGHT ANGLES TO THE GRAIN</b> , $f_{c, 90, g, k}$	2.5			
<b>SECTION</b> , $f_v, g, k$	3.5			
<b>MODULUS OF ELASTICITY</b> $E_{mean}, E_0, g, mean$	11,000	12,500	13,000	
<b>DENSITY kg/m<sup>3</sup></b> , $\rho, r, g, k$	365	390	390	

STANDARD LENGTHS: 3, 6, 8 and 12 m

MOISTURE CONTENT: 12%  $\pm$  3%

PROFILE: chamfer

PACKAGING: Individual folio, plastic on five sides

FIRE CLASS: D-s2-d0 (2000/147/EC)

WEATHER RESISTANCE CLASS: 4 (outdoor use)

GLUES: MUF (melamine-urea-formaldehyde-resin),  
light-coloured glue for outdoor use

SURFACE TREATMENT: plain wood finish, 1 x wood preservative, 1 x varnish

OUR APPROVAL: CE (EN 14080), FI, JAS, GOST

PACKAGE SIZES:

HEIGHT		90	115	140	180	225	270	315	360	405
WIDTH	42									
	56									
	66									
	90	50				10	10	10		
	115		54			9	9	9	9	9
	140			35			7		8	



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Versowood's annual turnover is approximately EUR 508 million, and we employ a total of around 900 people in our 14 units in Finland and one unit in Estonia. Versowood produces approximately 1.3 million m<sup>3</sup> of sawn timber annually. In addition, the company manufactures various kinds of downstream sawn timber products, such as planed, painted and impregnated products, glulam products and glulam structures, telephone transmission line supports and electricity transmission line supports, wooden bridges, noise barriers, various kinds of wood packaging as well as forest energy and wood pellets.