

Glulam



The following certificates demonstrate the outstanding quality of our products:



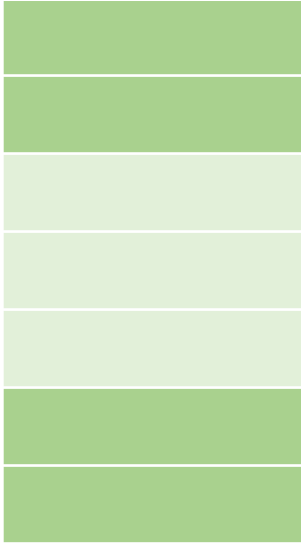
Glulam visual grade

Type of wood	spruce
Standard and strength	GL 24c according to EN 14080:2013
	GL 24h according to EN 14080:2013
	GL 28c according to EN 14080:2013
	GL 30h according to EN 14080:2013
Gluing	according to EN 14080:2013 and EN 302/301 melamine/urea resin, Type 1, 90°C-B Service class 1, 2 and 3* as per EN 1995-1-1
Dimensions	Width: (60) 80–240 mm Height: 100-1.240 mm Length: 6–18 m, Minimum miter length: 3 m
Surface and tolerance of dimension	planed on 4 sides with chamfer ± 1 mm in width and height ± 3 mm length tolerance
Wood moisture	12 % ± 2 %

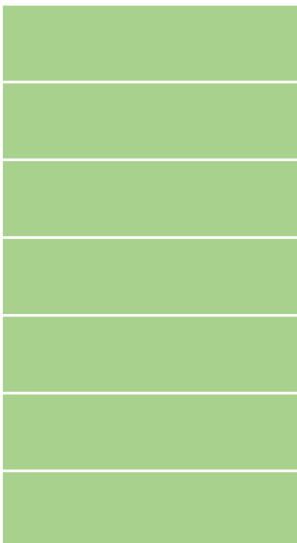
*up to cross section of 60,000 mm², protective coating required if close to the sea

Strength classes

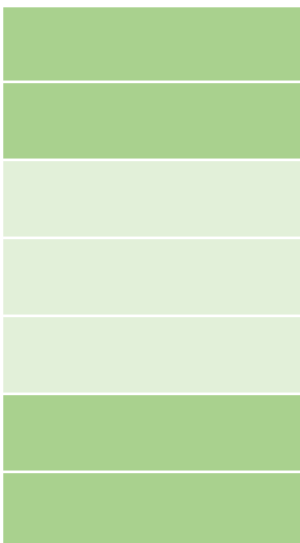
GL 24c



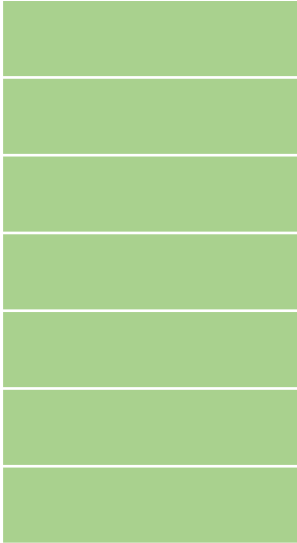
GL 24h



GL 28c



GL 30h



Mechanical properties

Strength classes		GL 24c	GL 24h	GL 28c	GL 30h
Elasticity modulus	$E_{//mean}$	11.000 N/mm ²	11.500 N/mm ²	12.500 N/mm ²	13.600 N/mm ²
	$E_{\perp mean}$	300 N/mm ²	300 N/mm ²	300 N/mm ²	300 N/mm ²
Shear modulus	G_{mean}	650 N/mm ²	650 N/mm ²	650 N/mm ²	650 N/mm ²
Bending strength	$\sigma_{0,05}$	24 N/mm ²	24 N/mm ²	28 N/mm ²	30 N/mm ²
Tensile strength	$\sigma_{t//0,05}$	17 N/mm ²	19,2 N/mm ²	19,5 N/mm ²	24 N/mm ²
	$\sigma_{t\perp 0,05}$	0,5 N/mm ²	0,5 N/mm ²	0,5 N/mm ²	0,5 N/mm ²
Compressive strength	$\sigma_{c//0,05}$	21,5 N/mm ²	24 N/mm ²	24 N/mm ²	30 N/mm ²
	$\sigma_{c\perp 0,05}$	2,5 N/mm ²	2,5 N/mm ²	2,5 N/mm ²	2,5 N/mm ²

Features	Permissibility
Glued joint	open joint not permissible
Fracture in wood	not permissible
Rough areas	not permissible
Discoloration/red stripes	occasionally permissible up to 5% of the surface on each side
Resin pockets	to 5 x 50 mm permissible, no clusters
Bark inclusions	small ingrowths permissible
Chunking	occasionally permissible
Sound knots	permissible
Loose knots	not permissible

Features	Permissibility
Tiny knots	to 1 cm permissible
Solid dead knots	occasionally permissible
Heartwood	permissible GL 28c: not permissible on 1/6 of the component height at the edge
Insect attack	not permissible
Waney edge	not permissible
Rot areas	not permissible
Checks	occasionally permissible
Packaging and storage	Individually wrapped or packaged in PE film. Store dry in a hall or under a roof. Protect from sunlight.

Standard dimensions strength class GL 24c

Amount per packet

Width in mm	Height in mm															
	100	120	140	160	200	240	280	320	360	400	440	480	520	560	600	640-1240
80		30	24	21	18	15	12	9	9	9	6	6	6	6	6	3
100	36	30	24	21	18	15	12	9	9	9	6	6	6	6	6	3
120		20		14	12	10	8	6	6	6	4	4	4	4	4	2
140			16	14	12	10	8	6	6	6	4	4	4	4	4	2
160				14	12	10	8	6	6	6	4	4	4	4	4	2
180					12	10	8	6	6	6	4	4	4	4	4	2
200					6	5	8	6	6	6	4	4	4	4	4	2
220						10	8	6	6	6	4	4	4	4	4	2
240						10	8	6	6	6	4	4	4	4	4	2

Standard dimensions

Standard dimensions strength class GL 24h

Amount per packet

Width in mm	Height in mm															
	100	120	140	160	200	240	280	320	360	400	440	480	520	560	600	640-1240
80		30	24	21	18	15	12	9	9	9	6	6	6	6	6	3
100	36	30	24	21	18	15	12	9	9	9	6	6	6	6	6	3
120		20		14	12	10	8	6	6	6	4	4	4	4	4	2
140			16	14	12	10	8	6	6	6	4	4	4	4	4	2
160				14	12	10	8	6	6	6	4	4	4	4	4	2
180					12	10	8	6	6	6	4	4	4	4	4	2
200					6	5	8	3	6	6	4	4	4	4	4	2
220							10	8	6	6	4	4	4	4	4	2
240							10	8	6	6	4	4	4	4	4	2

Stock program in lengths 12 m and 13.5 m

Standard dimensions

Standard dimensions strength class GL 28c

Width in mm	Height in mm															
	100	120	140	160	200	240	280	320	360	400	440	480	520	560	600	640-1240
80																
100																
120																
140																
160																
180																
200																
220																
240																

 Standard dimensions

Standard dimensions strength class GL 30h

Width in mm	Height in mm															
	100	120	140	160	200	240	280	320	360	400	440	480	520	560	600	640-1240
80																
100																
120		■														
140				■	■	■	■	■	■	■	■	■	■	■	■	■
160				■	■	■	■	■	■	■	■	■	■	■	■	■
180				■	■	■	■	■	■	■	■	■	■	■	■	■
200				■	■	■	■	■	■	■	■	■	■	■	■	■
220				■	■	■	■	■	■	■	■	■	■	■	■	■
240				■	■	■	■	■	■	■	■	■	■	■	■	■

■ Standard dimensions

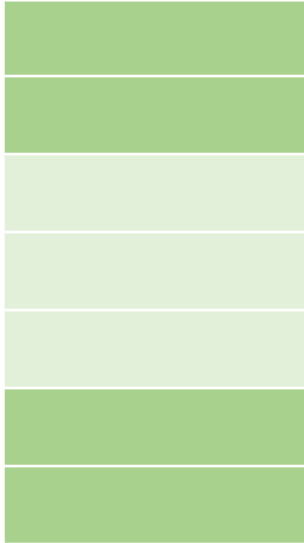
Glulam industrial grade

Type of wood	spruce/fir
Standard and strength	GL 24c according to EN 14080:2013
	GL 24h according to EN 14080:2013
	GL 28c according to EN 14080:2013
Gluing	according to EN 14080:2013 and EN 302/301 melamine/urea resin, Type 1, 90°C-B Service class 1, 2 and 3* as per EN 1995-1-1
Dimensions	Width: 80–240 mm Height: 100-1.240 mm Length: 6–18 m, Minimum miter length: 3 m
Surface and tolerance of dimension	planed on 4 sides with chamfer ± 1 mm in width and height ± 3 mm length tolerance
Wood moisture	12 % ± 2 %

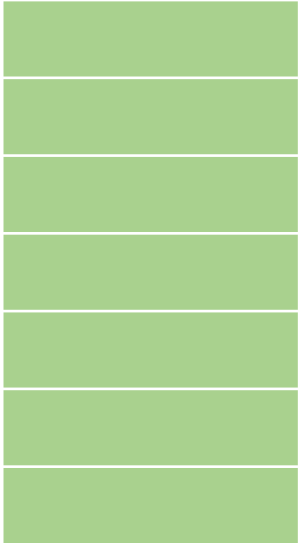
*up to cross section of 60,000 mm², protective coating required if close to the sea

Strength classes

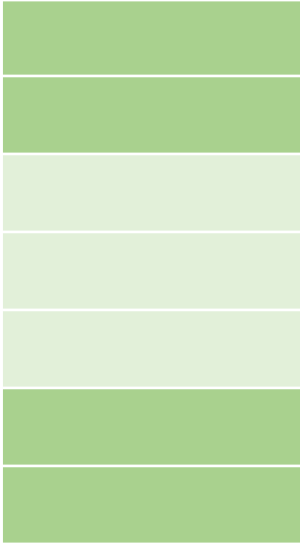
GL 24c



GL 24h



GL 28c



Mechanical properties

Strength classes		GL 24c	GL 24h	GL 28c
Elasticity modulus	$E_{//mean}$	11.000 N/mm ²	11.500 N/mm ²	12.500 N/mm ²
	$E_{\perp mean}$	300 N/mm ²	300 N/mm ²	300 N/mm ²
Shear modulus	G_{mean}	650 N/mm ²	650 N/mm ²	650 N/mm ²
Bending strength	$\sigma_{0,05}$	24 N/mm ²	24 N/mm ²	28 N/mm ²
Tensile strength	$\sigma_{t//0,05}$	17 N/mm ²	19,2 N/mm ²	19,5 N/mm ²
	$\sigma_{t\perp 0,05}$	0,5 N/mm ²	0,5 N/mm ²	0,5 N/mm ²
Compressive strength	$\sigma_{c//0,05}$	21,5 N/mm ²	24 N/mm ²	24 N/mm ²
	$\sigma_{c\perp 0,05}$	2,5 N/mm ²	2,5 N/mm ²	2,5 N/mm ²

Features	Permissibility
Glued joint	open joint not permissible
Fracture in wood	not permissible
Rough areas	individual minor rough areas permissible
Discoloration/red stripes	permissible
Resin pockets	permissible
Bark inclusions	permissible up to max. 1/2 board width
Chunking	occasionally permissible
Sound knots	permissible
Loose knots	permissible

Features	Permissibility
Tiny knots	permissible
Solid dead knots	permissible
Heartwood	permissible GL 28c: not permissible on 1/6 of the component height at the edge
Insect attack	individual small wormholes up to 2 mm permissible
Waney edge	occasionally permissible
Rot areas	not permissible
Checks	permissible
Packaging and storage	Individually wrapped or packaged in PE film. Store dry in a hall or under a roof. Protect from sunlight.

Standard dimensions strength class GL 24c

Amount per packet

Width in mm	Height in mm															
	100	120	140	160	200	240	280	320	360	400	440	480	520	560	600	640-1240
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220						10	8	6	6	6	4	4	4	4	4	2
240						10	8	6	6	6	4	4	4	4	4	2

Standard dimensions

Standard dimensions strength class GL 24h

Amount per packet

Width in mm	Height in mm															
	100	120	140	160	200	240	280	320	360	400	440	480	520	560	600	640-1240
80		30	24	21	18	15	12	9	9	9	6	6	6	6	6	3
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240						10	8	6	6	6	4	4	4	4	4	2

Standard dimensions

Standard dimensions strength class GL 28c

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120																
140																
160																
180																
200																
220																
240																

 Standard dimensions

Imprint

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Chamber affiliation: Member of the Austrian Wood Industries Association

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