

# Glulam



# The following certificates demonstrate the outstanding quality of our products:



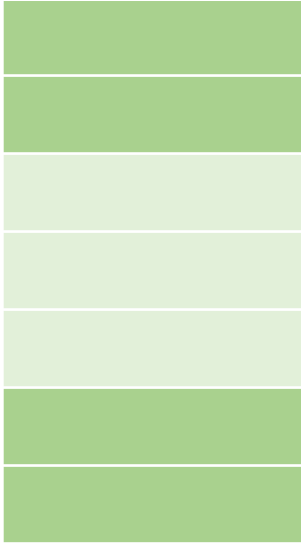
# Glulam visual grade

<b>Type of wood</b>	spruce
<b>Standard and strength</b>	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
<b>Gluing</b>	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
<b>Dimensions</b>	Width: (60) 80–240 mm Height: 100-1.240 mm Length: 6–18 m, Minimum miter length: 3 m
<b>Surface and tolerance of dimension</b>	planed on 4 sides with chamfer ± 1 mm in width and height ± 3 mm length tolerance
<b>Wood moisture</b>	12 % ± 2 %

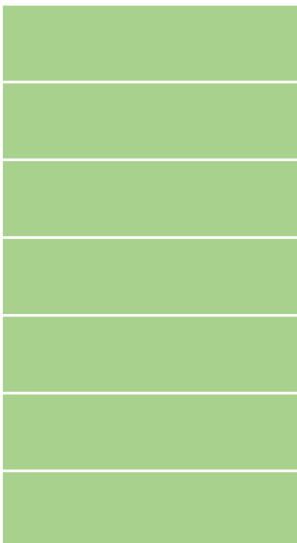
\*up to cross section of 60,000 mm<sup>2</sup>, protective coating required if close to the sea

# Strength classes

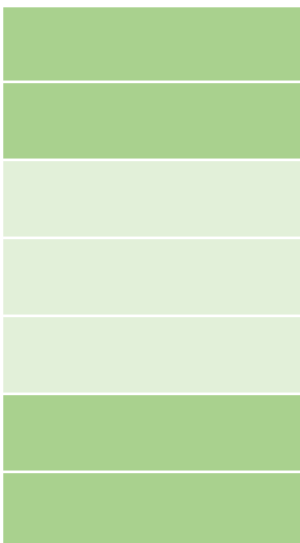
**GL 24c**



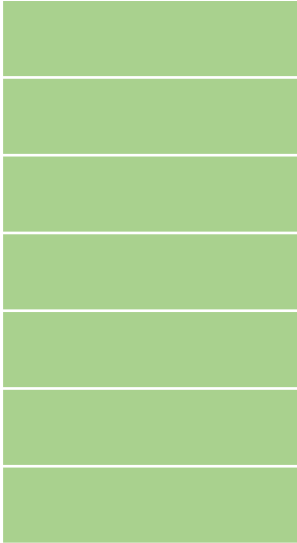
**GL 24h**



**GL 28c**



**GL 30h**



# Mechanical properties

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

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

Features	Permissibility
<b>Tiny knots</b>	to 1 cm permissible
<b>Solid dead knots</b>	occasionally permissible
<b>Heartwood</b>	permissible GL 28c: not permissible on 1/6 of the component height at the edge
<b>Insect attack</b>	not permissible
<b>Waney edge</b>	not permissible
<b>Rot areas</b>	not permissible
<b>Checks</b>	occasionally permissible
<b>Packaging and storage</b>	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	6	4	4	4	4	4	2
240						10	8	6	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

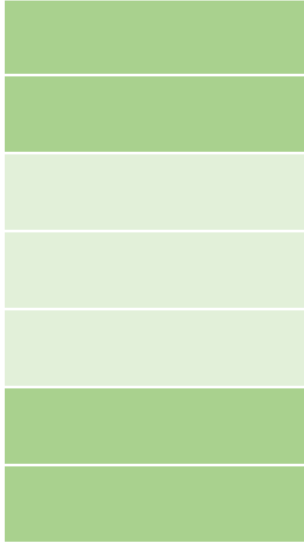
# Glulam industrial grade

<b>Type of wood</b>	spruce/fir
<b>Standard and strength</b>	GL 24c according to EN 14080:2013
	GL 24h according to EN 14080:2013
	GL 28c according to EN 14080:2013
<b>Gluing</b>	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
<b>Dimensions</b>	Width: 80–240 mm Height: 100-1.240 mm Length: 6–18 m, Minimum miter length: 3 m
<b>Surface and tolerance of dimension</b>	planed on 4 sides with chamfer ± 1 mm in width and height ± 3 mm length tolerance
<b>Wood moisture</b>	12 % ± 2 %

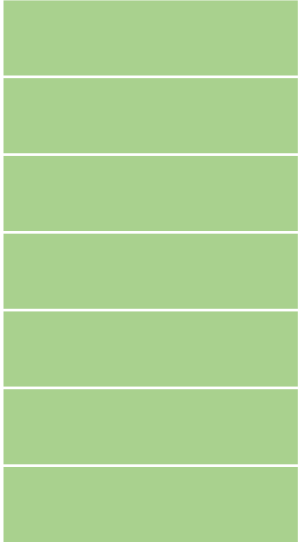
\*up to cross section of 60,000 mm<sup>2</sup>, protective coating required if close to the sea

# Strength classes

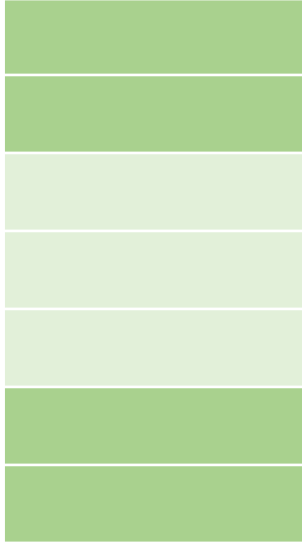
**GL 24c**



**GL 24h**



**GL 28c**



# Mechanical properties

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

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

Features	Permissibility
<b>Tiny knots</b>	permissible
<b>Solid dead knots</b>	permissible
<b>Heartwood</b>	permissible GL 28c: not permissible on 1/6 of the component height at the edge
<b>Insect attack</b>	individual small wormholes up to 2 mm permissible
<b>Waney edge</b>	occasionally permissible
<b>Rot areas</b>	not permissible
<b>Checks</b>	permissible
<b>Packaging and storage</b>	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					12	10	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					12	10	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

## Glulam industrial grade

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+43 7487 62 71-0, office@mosser.at

**ASMAZ**  
AHSAP A.Ş.

**MOSSER**



# 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

# Imprint

**Mosser Leimholz Gesellschaft m. b. H.**

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A-3263 Randegg  
+43 7487 62 71-0  
office@mosser.at

**Register court:** District Court of St. Pölten

**Commercial register number:** FN93662p

**Sales tax ID number:** ATU20146606

**Chamber affiliation:** Member of the Austrian Wood Industries Association

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Form number:	QM_QB_0025
Version number:	.05
Description:	Produktdatenblatt BSH_ENG
Creator:	Daniela Heigl
Approver:	Reinhard V. Mosser
Release date:	01.09.2020