

# Glulam



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



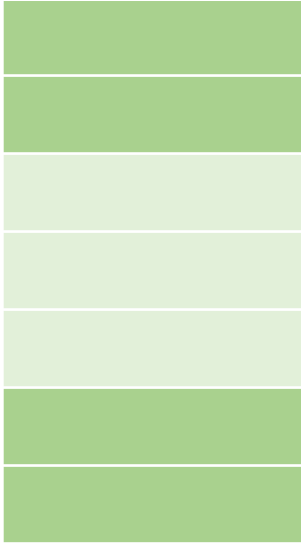
# Glulam visual grade

<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 %

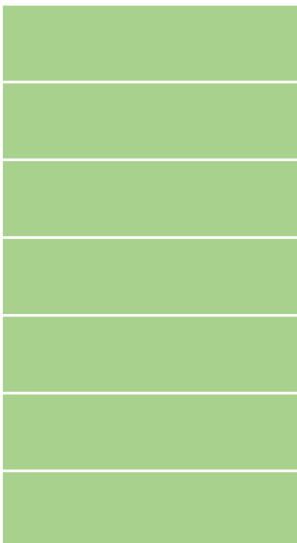
\*up to cross section of 60,000 mm<sup>2</sup>, protective coating required if close to the sea

# Strength classes

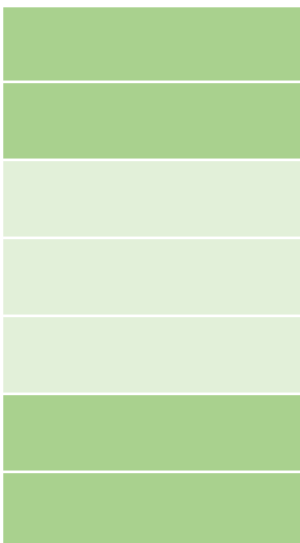
**GL 24c**



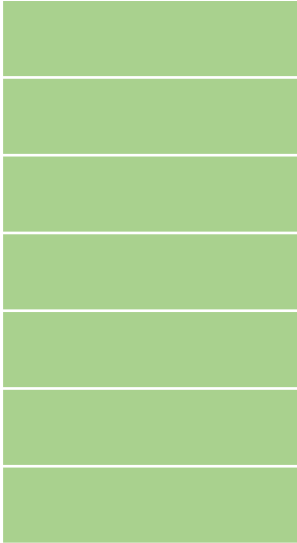
**GL 24h**



**GL 28c**



**GL 30h**



# Mechanical properties

Strength classes		GL 24c	GL 24h	GL 28c	GL 30h
Elasticity modulus	$E_{//mean}$	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>
	$E_{\perp mean}$	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	$G_{mean}$	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

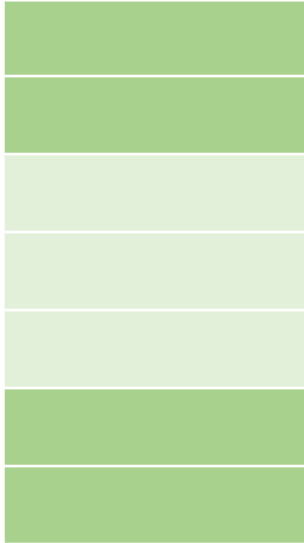
# Glulam industrial grade

<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 %

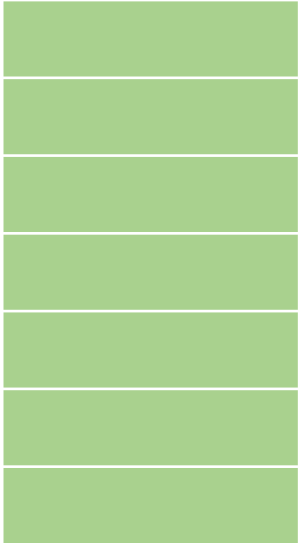
\*up to cross section of 60,000 mm<sup>2</sup>, protective coating required if close to the sea

# Strength classes

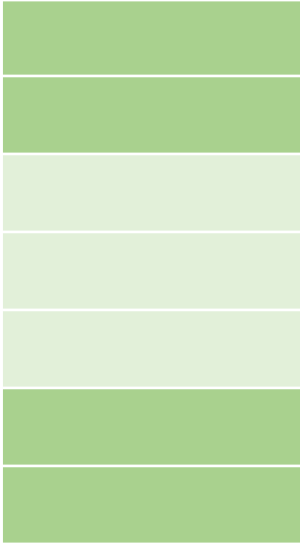
**GL 24c**



**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



# 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.**

**Company headquarters & postal address:**

Fohlenhof 2  
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

**Legal notice:**

The information on the Internet regarding the Mosser Group is continuously checked and updated. Nevertheless, incorrect information may be included unintentionally.

Therefore, liability or a guarantee for the topicality, correctness and completeness of the information provided cannot be assumed.

All decisions which are based on the information contained on the Internet concerning the Mosser Group are solely the responsibility of the user.

The Mosser Group does not accept any liability for direct, concrete or any other damage which arises as a result of this information.

The content and structure of the Mosser website are copyrighted. Duplication of information or data, particularly the use of text, sections of text or images, requires permission from the Mosser Group.

Form number:	QM_QB_0025
Version number:	.06
Description:	Produktdatenblatt BSH_ENG
Creator:	Daniela Heigl
Approver:	Reinhard V. Mosser
Release date:	01.09.2020