

# Duolam



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



<b>Type of wood</b>	spruce/fir
<b>Standard and strength</b>	GL 24h 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: 60 mm und 80 mm Length: 12 m and 13 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

# Mechanical properties

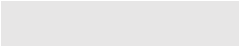

Strength class	GL 24h	
Elasticity modulus	$E_{//\text{mean}}$	11.500 N/mm <sup>2</sup>
	$E_{\perp\text{mean}}$	300 N/mm <sup>2</sup>
Shear modulus	$G_{\text{mean}}$	650 N/mm <sup>2</sup>
Bending strength	$\sigma_{0,05}$	24 N/mm <sup>2</sup>
Tensile strength	$\sigma_{t//0,05}$	19,2 N/mm <sup>2</sup>
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

Features	Permissibility
<b>Glued joint</b>	open joint permissible up to a depth of 1/6 of the component width per side
<b>Fracture in wood</b>	not permissible
<b>Rough areas</b>	recessed rough areas occasionally 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>	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
<b>Insect attack</b>	small wormholes up to 2 mm permissible
<b>Waney edge</b>	turned inwards max. 2 cm measured obliquely permissible
<b>Rot areas</b>	not permissible
<b>Checks</b>	permissible
<b>Packaging and storage</b>	Wrapped with PE film in packages. Store dry in a hall or under a roof. Protect from sunlight.

## Standard dimensions strength class GL 24h Amount per packet

Width in mm	Height in mm	
	60	80
80	91	75
100	77	60
120	63	50
140	56	40
160	49	35
180	42	30
200	35	30
220	35	25
240	28	25

 Stock program in lengths 12 m or 13 m  
 Standard dimensions

# Imprint

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**Commercial register number:** FN93662p

**Sales tax ID number:** ATU20146606

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

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