

Duolam



The following certificates demonstrate the outstanding quality of our products:



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

Mechanical properties

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

Features	Permissibility
Glued joint	open joint permissible up to a depth of 1/6 of the component width per side
Fracture in wood	not permissible
Rough areas	recessed rough areas occasionally permissible
Discoloration/red spalting	permissible
Resin pockets	permissible
Bark inclusions	permissible up to max. 1/2 board width
Chunking	permissible
Sound knots	permissible
Loose knots	permissible

Features	Permissibility
Tiny knots	permissible
Solid dead knots	permissible
Heartwood	permissible
Insect attack	small wormholes up to 2 mm permissible
Waney edge	turned inwards max. 2 cm measured obliquely permissible
Rot areas	not permissible
Checks	permissible
Packaging and storage	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

Mosser Leimholz Gesellschaft m. b. H.

Company headquarters & postal address:

Fohlenhof 2
A-3263 Randegg
Tel: +43 / 74 87 / 62 71-0
e-mail: office@mosser.at

Register court: District Court of St. Pölten

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Chamber affiliation: Member of the Austrian Wood Industries Association

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