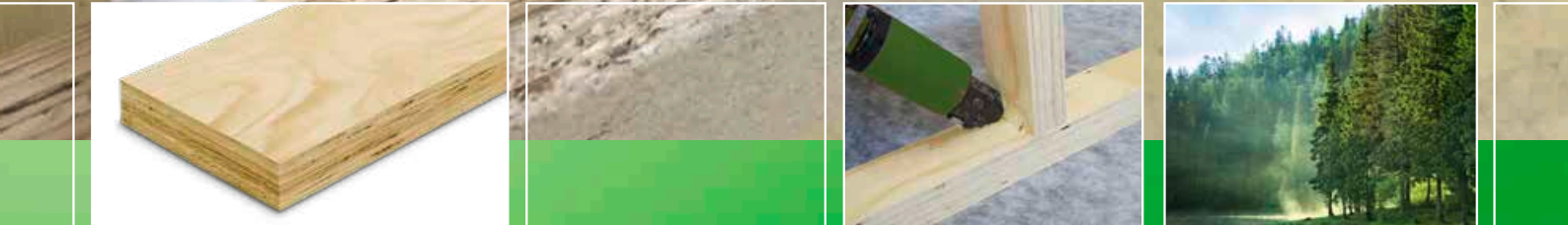


STEICO LVL R

Laminated veneer lumber – ideal for furniture construction

Furniture elements – made of innovative laminated veneer lumber



Industrial wood – based material with highest stability and dimensional accuracy

Areas of use

Furniture industry/shop fittings
stabilisers, strips, slats

Scenery and stage construction

- Low moisture content: no shrinkage, swelling or twisting
- Excellent dimensional stability
- Slim yet highly stable cross-sections
- Homogeneous product with consistently high strength
- Firm anchoring base for staples, nails and screws
- Industrial product with consistent properties
- Reliable delivery due to European production
- Economic use of raw material





STEICO *LVL RL*

Laminated veneer lumber – A refined wood-based material ideal for industrial series production

STEICO *LVL* (Laminated Veneer Lumber) is one of the most stable wood materials. It consists of several layers of approx. 3 mm thick coniferous wood veneers glued together (pine/spruce). Defects are evenly distributed throughout the material resulting in a homogenous cross-section. STEICO *LVL RL* consists of veneers running parallel to each other. This structure means that STEICO *LVL RL* is highly stable.

Advantages

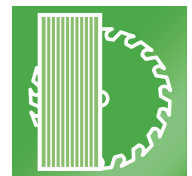
Precision

- Precise tolerances thanks to modern technologies
- Material moisture at 10%, ideal for later use. No shrinkage!
- Dimensionally stable and high-strength cross-section



Processing

- Simple processing with standard woodworking machines
- Ideal anchoring base for staples and nails, enables low-cost fixings
- Easy handling due to low weight



Strength

- Homogeneous cross-sections, no weak points as with natural wood - consistent high strength
- Material savings compared to solid wood
- Slim and highly stable constructions



Dimensional accuracy

- Absolutely straight components, even for longer furniture components
- No twisting thanks to multiple bonded veneer layers
- Avoidance of subsidence and crack formation



Additional processing for STEICO LVL RL

- Exceptional variety of formats, from panels to strips
- Customer-specific cutting with precise tolerances
- Extensive quality control
- Calibration and chamfering
- Planing, sanding and grooving



Possible uses for STEICO LVL RL in furniture construction

- Sofa frames
- Frame construction
- Stabilizers
- Any type of heavy-duty furniture components
- Anchoring base for staples and nails
- Kitchen furniture
- Box furniture



Mechanical properties of STEICO LVL RL and STEICO LVL R

Key characteristics	Symbol	Unit	STEICO LVL RL	STEICO LVL R	Drawings
Flexural Strength					
Edge, parallel to the grain direction (height 300 mm)	$f_{m,0,edge,k}$	N/mm ²	32	44	
Flat, parallel to the grain direction	$f_{m,0,flat,k}$	N/mm ²	36	50	
Compression strength					
Perpendicular to grain, edgewise	$f_{c,90,edge,k}$	N/mm ²	7.5	7.5	
Perpendicular to grain, flatwise	$f_{c,90,flat,k}$	N/mm ²	3.0	3.6	
Elasticity module					
Parallel to the grain direction	$E_{0,mean}$	N/mm ²	12,000	14000	
Shear strength					
Edge, parallel to the grain direction	$f_{v,0,edge,k}$	N/mm ²	4.6	4.6	
Flatwise, parallel to grain	$f_{v,0,flat,k}$	N/mm ²	1.1	2.6	

Delivery formats STEICO LVL RL

STEICO LVL – Everything is possible – from narrow strips to large-format panels, which can be cut to size by the customer. STEICO LVL is available in an extraordinary variety of formats.

Thickness t [mm]	Width b/Height h [mm]	Pieces/Pack	Qty. (m/pk)	
			Length [m]	
			2.00	6.00

Slats (without thickness calibration) – Delivery in packages, Eased edges a) f)

21	25 b)	896	1,792	–
	46 c)	512	1,024	–
27	50 d)	480	–	2,880
	60 d)	400	–	2,400
	70 d)	320	–	1,920
36	65 e)	384	768	–
39	50 d)	336	–	2,016
	60 d)	280	–	1,680
	70 d)	224	–	1,344

Slats (with thickness calibration) – Delivery in packages, Eased edges a) f)

25	50 d)	480	–	2,880
	60 d)	400	–	2,400
	70 g)	320	–	1,920
37	50 d)	336	–	2,016
	60 d)	280	–	1,680
	70 g)	224	–	1,344

Technical data STEICO LVL

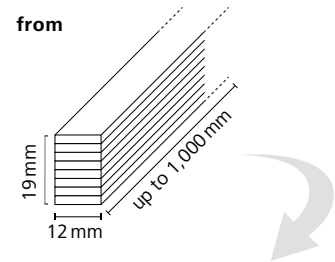
Laminated veneer lumber	STEICO LVL RL according to DIN EN 14374 from softwood veneers
Average wood moisture content	u = approx. 9%
Density ρ_{mean} [kg/m ³]	525
Fire resistance	D-s1, d0
Formaldehyde emission	E1
Waste code (EAK)	030105/170201, disposal as for natural wood and wood-based materials



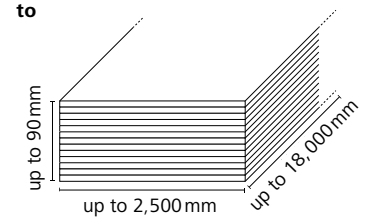
Further information for STEICO LVL can be found in the STEICO LVL - Design Guide

Format varieties:

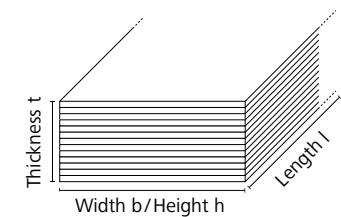
from



to



Description:



Note: Store STEICO LVL RL flat and on a dry surface; protect from dirt and moisture during transport and storage

STEICO LVL RL is produced in line with the harmonised European norm DIN EN 14374, is third party supervised and approved by building authorities.

- a) Non stock item - Delivery times on request
- b) 41 Pack./truck
- c) 39 Pack./truck
- d) 10 Pack./truck
- e) 21 Pack./truck
- f) Other cross sections and lengths on request
- g) 11 Pack./truck

