

Laminated veneer lumber (LVL)



Range of applications

as stated in the manufacturer's approval according to EN 14279

Technical class	Requirement	Service classes acc. to EN 1995-1-1
LVL/1	dry conditions	1
LVL/2	humid conditions	1 and 2
LVL/3	exterior conditions*	1, 2 and 3

* ... LVL/3 may only be used in exterior conditions, if all surfaces are protected with a suitable protective coating.

General Description

LVL is used as panel- or beam product. It consists of peeled spruce or pine veneers up to 6 mm thick. These wood veneers are bonded with their individual ends offset and with fibres oriented primarily in the same direction. LVL is manufactured in a continuous process, using a phenolic resin. LVL contains veneers with fibres aligned primarily in the major axis, sometimes veneers also align with the minor axis. LVL can be used as bracing element in load-bearing floors and ceilings. LVL containing veneers with fibres aligned exclusively in the major axis is used in load-bearing structures, trusses, beams and rafters. LVL can be used in the same applications as glued laminated timber. LVL is suited for pressure treatments and thus can be designed for special applications, such as in areas with high risk to biological attack (e.g. by fungi or insects) or where special climatic conditions prevail.

Typical board sizes [mm]

Length	up to 26000
Width	up to 2500
Thickness	21 – 75

Technical References

Approval provided by the manufacturer or

EN 14279

Laminated Veneer Lumber (LVL) – Definitions, classification and specifications

Laminated veneer lumber (LVL)

Mechanical properties

_ as stated in the manufacturer' s approval

Physical properties

_ as stated in the manufacturer' s approval

Fire performance

_ as stated in the manufacturer' s approval