



**Laminated Veneer Lumber (LVL)** is an engineered wood product that uses multiple layers of thin wood assembled with BWP grade adhesives. It is typically used for Doors & Window Frames and Shutters, Headers, Furniture, Beams, Scaffolding, Rimboard, Edge-forming material, Pallets & Packaging etc. It offers several advantages over typical milled lumber since it is made in a factory under controlled specifications, hence, it is stronger, straighter and more uniform. Due to

its composite nature, it is much less likely than conventional lumber to warp, twist, bow or shrink.

The panels are similar in appearance to plywood without crossbands (LVL) and is typically rated by the manufacturer for elastic modulus and allowable bending stress. LVL is made from Hardwood timbers like Eucalyptus, Rubberwood etc which are native timbers & eco-friendly.

Laminated Veneer Lumber (LVL) is also classified as structural composite lumber and is commonly used by companies that manufacture I-joists.

### Properties & Benefits :

- Density 800 to 900 Kg/cbm
- Phenolic Glue – WBP Grade
- Plain/Natural/Sanded/Smooth finish
- Moisture around 15% approx
- No Delamination for 72 hours (BWP Grade)
- Can be painted/polished/laminated/Veneered
- Minimises expansion or contraction
- Strong yet easy to use
- Resists impact & heavy blows
- Good thermal & Sound insulation
- Calibrated thickness ( $\pm 1.00$  mm)
- 30 to 60 mins of Fire Resistance
- MAX thickness upto 45 mm
- Standard Size 2440 x 1220 mm





## Test Report (IS14616:1999)

<b>Product</b>	High Density LVL	
<b>Brand</b>	COMPOSITE®	
<b>Size</b>	2440 x 1220 x 40mm	
<b>Resistance of Water</b>	No separation of Layers seen after 72 hours Boiling	
<b>Moisture Content</b>	Average 15 - 18%	
<b>Adhesion of Plies</b>	Pass	
<b>Thickness Swelling in Water</b>	Average 1.50 – 2.30 % observed	
<b>Specific Gravity</b>	Average 0.84 – 0.89 gm/cc observed	
<b>Screw Holding</b>	Average 3219.00 N	
<b>Modulus of Elasticity (MOE)</b>	7500 N/mm <sup>2</sup>	Avg - 10009 N/mm <sup>2</sup>
<b>Modulus of Rupture (MOR)</b>	50 N/mm <sup>2</sup>	Avg – 57.12 N/mm <sup>2</sup>
<b>Dimensions</b>		
<b>Length ± 3.00 mm</b>	2441 mm	
<b>Width ± 3.00 mm</b>	1221 mm	
<b>Thickness ± 5%</b>	Within ± 0.70 mm	
<b>Warping within 1.5mm / meter length</b>	0.60 mm max	
<b>Squareness ± 3.00 mm / mtr</b>	0.60 mm max	