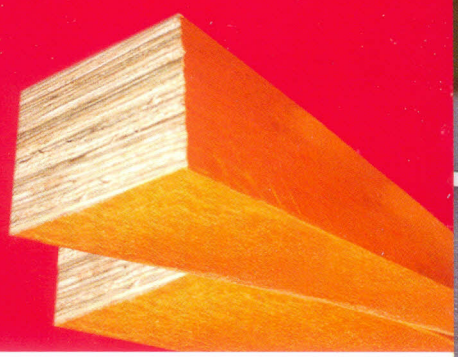


LVL Laminated Veneer Lumber

IS:14616



Laminated Veneer Lumber (LVL) is an engineered wood product that uses multiple layers of thin wood assembled with adhesives. It offers several advantages over typical milled lumber: it is stronger, straighter, and more uniform. It is much less likely than conventional lumber to warp, twist, bow, or shrink due to its composite nature. Internally, it is a compact structure which makes it highly stable dimensionally. Made in a factory under controlled specifications, LVL products allow users to reduce the onsite labour. In the time to come, we predict that the use of LVL will widen up and it will find application in many more new things.

Suggested uses: They are typically used for headers, beams, and edge-forming material. Now-a-days, door and window frames where wood was used, is also replaced by LVL.

TECHNICAL SPECIFICATIONS (IS:14616:2010)

	Dimension	BIS Requirement	Observation Values
1	Length	2440 + 6 - 0	2442mm
2.	Width	1220 + 3 - 0	1222mm
3.	Thickness	50mm	49.50mm
4.	Squareness	2mm/1000 mm	0.95mm
5.	Edge straightness	2mm/1000mm	0.50mm
6.	Workmanship & finish	Clause 7	Satisfactory
	Physical properties		
7.	Adhesion of plies (in dry state)	Some adherent fibre distributed more or less uniformly	Satisfactory
8.	In wet state after boiling 72 hrs and cooling in water till room temp.	------ do ------	Satisfactory
9.	In micro organism dry state after mycological test	------ do ------	Satisfactory
10.	Modulus of rupture	50 N/mm^2	70.566 N/mm^2
11.	Modulus elasticity	7500 N/mm^2	8255.28 N/mm^2
12.	Compressive strength parallel to grain	Along - 35 N/mm^2	36.80 N/mm^2
13.	Compressive strength perpendicular to grain	Along - 35 N/mm^2 Across- 50 N/mm^2	36.00 N/mm^2
14.	Horizontal shear	Along - 6N/mm^2 Across- 8 N/mm^2	7.05 N/mm^2 9.00 N/mm^2
15.	Screw holding power	Edge - 2300 N Face - 2700 N	Screw Nail 3150 1130 3250 1440
16.	Thickness swelling with in 2 hours water soaking	(3% Max) With in 2 hours water soaking With in 24 hours water soaking	0.42% Max 1.92%

AUTOMOTIVE AND INDUSTRIAL SECTOR