

DINDAS LVL 12

LAMINATED VENEER LUMBER

PRODUCT SHEET



Product name

Dindas LVL 12

Standards and Certification

The Dindas range of LVL Engineered Wood Products (EWP) is sourced from world leading sustainable manufacturers internationally and locally. These manufacturers comply with the required AS/NZS standards and the globally recognised standard bodies of the APA and ASTM.

LVL from Dindas Australia currently meet or exceed the NCC Material Compliance requirements.

Manufacture

AS/NZS4357.2 Series of Standards

Quality Assurance - Certification Bodies

JAS-ANZ, Sai-Global, APA

Durability

Class 4

Multi-tooth Plate Design

Refer Nailplate Manufacturer

Sizes

70x35, 70x45, 90x35, 90x45, 95x45, 95x63, 100x36, 100x45, 100x63, 150x36, 150x75, 170x36, 200x36, 240x36, 300x36

Veneer Fibre

Manufacturer dependant but may contain: Spruce, Maritime Pine, Radiata Pine, Doug-Fir, Birch

Moisture Content

8-15% (at time of despatch from the manufacturer)

Adhesive

Phenolic to AS2754.1

Bond

Type A to AS2098.2

φ Factors - Structural LVL - AS/NZS 4357.0

0.95 0.9 0.8

Treatment options

UT H2S H2 H3 *

* For complete treatment confidence and compliance, Dindas only recommends using LOSP treatment methods for EWP products.

Surface Finish

Unsanded faces, sawn and arrised edges

DINDAS LVL CHARACTERISTIC VALUES FOR DESIGN LIMIT STATES

f'_b	Bending strength ¹	46MPa
f'_t	Tension strength - parallel to the grain ²	20MPa
f'_{tp}	Tension strength - perpendicular to the grain	0.5MPa
f'_c	Compression strength - parallel to the grain	30MPa
f'_{cp}	Compression strength - perpendicular to the grain	-
f'_p	Bearing strength - perpendicular to the grain	10MPa
f'_l	Bearing strength - parallel to the grain	30MPa
f'_s	Shear strength	4.5MPa
f'_{sj}	Shear at joints	4.5MPa
MOE	Modulus of Elasticity	12,000MPa
MOR	Modulus of Rigidity	600MPa
ρ	Density (approximate)	590-600kg/m ³
JD	Joint Group for connector design (nails, screws & bolts)	JD4
SD	Strength Group	SD5

1. For beams bigger than 95mm in depth, the characteristic values are obtained by multiplying the value in this Table by $(95/d)0.167$, where "d" is the depth of the section.

2. For tension members with a cross-sectional dimension greater than 150mm, the characteristic values are obtained by multiplying the value in this Table by $(150/d)0.167$, where "d" is the width or largest dimension of the cross-section.

3. Tapered and notched beam is allowable, although it requires certifications and/or design checks by an engineer.

4. Notches, cuts and holes in beams, bearers, joists and rafter members may have penetration holes and notches performed in accordance with AS1684.2 Clause 4.1.6 & Figure 4.1. The cutting, notching & drilling of components within structures that do NOT meet these criteria is outside the scope of this document and should be referred to an experienced timber engineer for design checks & certification.