DLVL14 (F17) – Characteristic & Design Values

Product Name
DLVL-14 (F17)

Standards and Certification
The Dindas range of LVL Engineered Wood Products (EWP) is sourced from world leading sustainable manufacturers both internationally and locally. These manufacturers comply to not only the required AS/NZS standards, but also 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
290x35, 90x45, 120x45, 140x45, 190x45, 240x45, 290x45

Veneer Fibre
Manufacturer dependant but may contain the following, *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 the use 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]	**52.2MPa**
f'_t	**Tension strength - parallel to grain**[2]	**30.4MPa**
f'_{tp}	**Tension strength - perpendicular to grain**	**0.5MPa**
f'_c	**Compression strength - parallel to grain**	**39MPa**
f'_{cp}	**Compression strength - perpendicular to grain**	**-**
f'_p	**Bearing strength - perpendicular to grain**	**10MPa**
f'_l	**Bearing strength - parallel to grain**	**30MPa**
f'_s	**Shear strength**	**4.5MPa**
f'_{sj}	**Shear at joints**	**4.2MPa**
MOE	**Modulus of Elasticity**	**14,000MPa**
MOR	**Modulus of Rigidity**	**700MPa**
ρ	**Density (approximate)**	**590 - 600kg/m^3**
JD	**Joint Group for connector design (nails, screws & bolts)**	**JD4**
SD	**Strength Group**	**SD5**

NOTES:

1. For beams greater than 95mm 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 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 but requires certifications and/or design checks by 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 this criteria is outside the scope of this document and should be referred to an experienced timber engineer for design checks & certification.