

Specification

Structural Laminated Veneer Lumber (LVL) CMI Certified Number PC10120

LVL is an engineered wood product composed of bonded veneer layers stacking in the same direction, offering superior strength-to-weight ratio and dimensional stability for beams, headers, and structural applications.

Materials:

Acacia
2.1mm(19plies for 35mm, E12 grade)
A+ face and back; A/A- core.

Glue:

Phenol-formadehyde resin to AS 2754.1

Tolerance:

- Length: ≥ 0
- Width: 0-2mm
- Thickness: 0-4mm

Mechanical Properties:

- Stress grade: E12(F14), refer to table 1
- Standards Compliance: AS/NZS 4357.0:2022
- Formaldehyde emission level: Super E₀
- Bond type: A-bond
- Joint Group: refer to table 2

Moisture content:

8-12% at the time of delivery

Application:

Structural use as beams, rafters, I-joists, and headers, etc.

Packaging:

Wrapped on request

Tabel 1. E12 Design characteristic Values

| Properties | E | f'b | f's | f'sj | f'p | f't | f'c |
|------------|-------|------|-----|------|------|------|------|
| Edge | 12161 | 53.4 | 4.1 | 5.5 | 13.7 | 37.0 | 37.8 |
| Flat | 12819 | 47.9 | 3.6 | 2.1 | 12.9 | | |

Table 2. Joint Group Classification

| Joint Group | Nails-Face&Edge | | Screws-Face&Edge | | Bolts-face | |
|-------------|-----------------|------------|--------------------------------------|------------------------------------|------------|---------------|
| | Lateral | Withdrawal | Lateral | Withdrawal | Parallel | Perpendicular |
| | JD2 | JD4 | JD1 ¹²³ /JD2 ⁴ | JD3 ⁵ /JD4 ⁶ | JD2 | JD2 |

Notes:

- 1.Lateral Loaded Parallel to Grain,Driven into Face-Screw
- 2.Lateral Loaded Perpendicular to Grain,Driven into Face-Screw
- 3.Lateral Loaded Parallel to Grain,Driven into Edge-Screw
- 4.Lateral Loaded Perpendicular to Grain,Driven into Face-Screw
5. Withdrawal Loads for ScrewsDriven into Face-Screw
6. Withdrawal Loads for ScrewsDriven into Edge-Screw