

PENTARCH FORESTRY



STRUCTURAL HARDWOOD

APRIL 2022



Promoting sustainable forest management



- Pentarch Forestry structural timber is manufactured from Australian hardwood species that have proven durability in Australian conditions.
- Pentarch Forestry has a Quality Assurance system that ensures strict tolerances and drying procedures to produce a high quality product.
- Pentarch Forestry products are Responsible Wood Chain of Custody certified meaning that Pentarch Forestry's structural timber is sourced from certified, legal and sustainably managed resources.
- Seasoned structural timber is ideal for all structural applications including sub-floor construction, stair components, highly loaded truss members, wall lintels over openings and high strength structural beams.
- Blackbutt and Spotted Gum have a natural fire resistance making them suitable for use in many bushfire prone areas under Australian Standard AS3959. See Pentarch Forestry's Construction in Bushfire Zones brochures for more information.
- Australian hardwoods can easily be finished with a clear oil or stain. Alternatively, the timber can be left to weather to turn an attractive silver grey.
- Building codes and Australian Standards should be adhered to when building with Pentarch Forestry structural timber.
- A full range of preservative treatments to Hazard levels up to H6 is available for green hardwood.

Technical Specification

| Properties | Seasoned (Kiln Dried) | | | Unseasoned (Green) | | | | | | | |
|---|-----------------------|-----------------|--------|--------------------|-----------------|-----------------|--------|-------------|--------|----------|--------|
| | Blackbutt | Mixed Hardwoods | | Mountain Species | Coastal Species | Mixed Hardwoods | | Spotted Gum | | Ironbark | |
| Stress Grade | F27 | F27 | F17 | F11 | F11 | F14 | F17 | F14 | F17 | F14 | F17 |
| Natural Durability Class – Outside Above Ground | Dura 1 | Dura 1/3 | Dura 3 | Dura 3 | Dura 2 | Dura 3/4 | Dura 2 | Dura 1 | Dura 1 | Dura 1 | Dura 1 |
| Strength Group | SD2 | SD2 | SD2 | S4 | S3 | S2 | S2 | S2 | S2 | S1 | S1 |
| Joint Group | JD2 | JD2 | JD2 | J4 | J2 | J2 | J2 | J1 | J1 | J1 | J1 |
| Naturally Bushfire Resistant | Yes | No | No | No** | No | No | No | Yes | Yes | Yes* | Yes* |
| Naturally Termite Resistant | Yes | No | No | No | No | No | No | Yes | Yes | Yes* | Yes* |

* Red Ironbark Only. ** Some Mountain Species such as Silvertop Ash. Reference: Australian Standard AS1648.2 - 2006. 'Wood in Australia', Keith R Bootle, 2005.

Note: Variations within a timber species are normal, therefore photographs, samples and displays can only be indicative of colour and should not be used for final selection. It is normal for natural timber products to react to changes in atmospheric and environmental conditions such as humidity and temperature.

www.pentarch.com.au/timberproducts.html

National free call 1800 818 317

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Applications

Seasoned (F27 Hardwood)

- Bearers
- Lintels
- Counter Beams
- Rafters
- Floor Joists
- Strutting Beams
- Hanging Beams
- Wall Studs
- Underpurlins
- Intermediate Beams
- Floor Systems
- Wall Framing
- Window Lintels
- Support Beams
- Roof Beams
- Wharves
- Boardwalks

Unseasoned (Green)

- Boardwalks
- Grandstands
- Posts
- Wharves
- Pedestrian and Vehicle Bridges

Standard Sizing

Seasoned (F27 Hardwood)

- 70 x 35/45mm
- 90 x 35/45mm
- 120 x 35/45mm
- 140 x 35/45mm
- Lengths up to 6m
- Lengths over 6m are available in nail plated profiles.
- Wider widths are available through nail laminated profiles.
- 190 x 35/45mm
- 240 x 35/45mm
- 290 x 35/45mm

Unseasoned (Green)

- Cut to any end section ranging from 25mm – 300mm, dependant on species and log size/availability.
- Lengths up to 6m.
- Lengths over 6m and up to 8m available on application. Dependant on species and log size/availability.