

Technical Data Sheet

Product options	Imbue Radiata – Flatsawn
Typical nominal sawn sizes (mm)	100x25, 125x25, 150x25, 200x25, 100x32, 150x32, 200x32, 100x50, 150x50, 200x50mm
Lengths	2.4m, 2.7m, 3.0m, 3.6m, 4.2m, 4.8m (subject to availability). US Imperial lengths available
Grade	Clear 2 or Better (Rough Sawn) / Select (Profiled)
Species	Radiata Pine
Treatment	Heat tempered TMT230
Origin	North Island, New Zealand
Sustainability	FSC® certified- mixed, CoC No.: SGS-COC-004944
Average dry density	~420 kg/m ³
Equilibrium Moisture Content % (EMC)	~7%
Durability	Durability Class 1 (EN350) and Class 2 (AS5604) – above ground. Available optionally H3 treated (AS1604) for use in termite zones
Warranty	15 years against fungal attack (subject to terms and conditions)
Indicative expansion when wet (from 7% MC to fibre saturation point)	Tangential 3%, Radial 2%, Longitudinal 0.25%. May vary due to natural variation in the timber
Compatibility	Can be placed in contact with most materials including aluminium, galvanised and stainless steel however increased acidity of the timber may require separation from zinc. Use stainless steel fixings for exterior applications
Fixings	Nail hold strength same as for radiata pine (JD4). Screw hold strength reduced by around 20% (JD4-JD5)
Gluing	Cross linking PVA, PU, MUF glues and RF resins can be used. Unique properties of the timber including dryness may affect glue bond performance, always check with adhesive manufacturer and conduct testing prior to use
pH (indicative)	3.9
Hardness	Medium-Low (2.5kN Janka)
Thermal properties	~0.095 W/mK / ~R1.35 per 25mm thickness (EN12667, ASTM C518, ISO 8301)
Characteristic structural properties (clear sap wood)	Stiffness (MoE) 7.5GPa, Bending strength (MoR) 15.7MPa
Weathering	Flatsawn boards will exhibit some surface cracking and will lighten in colour (eventually to silver-grey) with exposure to weather
Workability	Excellent machinability. Timber exhibits reduced splitting strength, therefore care should be taken to use sharp tools and pre-drill fixings. Fine dust is created from machining so good extraction is required. Increased brittleness so careful handling and robust protective packaging of profiled product required
Coating	Takes most oil and water borne coatings well, absorption rates tend to be higher. Smooth dressed timber must be sanded prior to coating. Always test coatings prior to use and follow coating manufacturer's instructions for application
Fire	D-s1-d0 (EN13501-1), Class B (ASTM E84), Group 3 (AS/NZS3837) (Fire classifications may be subject to specific installation requirements in accordance with test reports and local building regulations)

Contact

Imbue Wood

P +64 9 249 0100

E info@imbuewood.com

W imbuewood.com

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