

Accoya® Radiata pine



Acetylated wood of *Pinus radiata* D. Don **Also known as:** Monterey pine, Insignis pine

1. General Information

• **Distribution**

It is native to three very limited areas located in Santa Cruz, Monterey Peninsula and San Luis Obispo Counties. In Australia, New Zealand, and Spain it is the leading introduced tree and in Argentina, Chile, Uruguay, Kenya, and South Africa it is a major plantation species.

• **Environmental**

Not listed in CITES. All Accoya® wood is produced from well managed, sustainable sources, including FSC®, PEFC, other controlled wood sources. Furthermore Accoya wood has been certified with various environmental labels and has obtained the prestigious Cradle to Cradle Gold certificate.

• **The Timber**

Growth rings mostly wide and distinct, false rings may be common; grain usually straight; texture moderately even and fine; odor slightly acetic acid.

• **The Tree**

Radiata pine is a coniferous evergreen tree growing to between 15–30 m (49–98 ft) in height in the wild, but up to 60 m (200 ft) in cultivation in optimum conditions, with upward pointing branches and a rounded top. In plantations the tree is commonly planted at 3m x 3m spacing on a wide variety of landscapes from flat to moderately steep hills. Because of selective breeding and more recently the extensive use of Growth Factor seedlings, forests planted since the 1990s are of superior wood with very straight tall trunks without the problem of twin leaders. The trees are pruned in 3 lifts so that the lower 2/3 of a mature tree is branch- (and hence knot-) free. In its natural state, the wood is poor quality: twisted, knotty and full of sap/resin only really suitable for firewood, but the modern product is very different.

• **Wood type**

Modified Softwood

2. **Timber Properties**

• **Chemical properties**

As all wood species Accoya® wood contains a small percentage of acid. This can impact compatibility with fasteners, fixings, adhesives, coatings, etc. More information can be found in the [Accoya Wood Information Guide](#).

• **Coating**

A wide range of coatings can be applied, subject to appropriate profile design, sound preparation and application of the coating in accordance with manufacturer's instructions. Due to its unrivalled stability this species will offer excellent and long term performance. Must be stored and protected correctly on site.

• **Colour**

As a result of kilning and acetylation process, newly produced Accoya® wood may show some surface irregularities, such as discoloration (brown) and sticker marks. To achieve a uniform appearance, it may be necessary to plane or saw off a few millimetres depending on the visual quality desired.

• **Density**

510kg/m³

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- **Drying**

Accoya wood is supplied in dry condition (wood moisture content < 8%) and can be processed directly. Accoya® wood that needs further processing, gluing or coating should be carefully stored, preferably in closed or well ventilated sheds to prevent water/moisture uptake.

- **Durability**

Extreme Durable, class 1

- **Fixings**

Stainless Steel fixings are recommended and Marine grade may be required in close proximity of the sea. Round head ring annular nails are preferred or suitable screws. Please ensure fixing and fixing system is appropriate to species.

- **Fire Retardant**

This species can be treated for Internal use ONLY to Euro Class 'B'. The treatment can leave a higher level of surface residue, which will need to be removed before installation.

The pressure impregnation process can lead to increased brittleness and issues such as end split face checks and dimensional distortion. These are characteristics of the treatment process, will potentially increase site wastage and means that an increase in actual length of pieces ordered and/or overall volume may appropriate.

- **Lengths**

Can be supplied from 2.4m to 6.0m in increments of 300mm . Most available lengths are 3.0m to 4.8m

- **Movement**

Very small

- **Price**

High (Coated only product)

- **Sawn Sections**

(Machined profiles will be thinner/narrower)

25 x 100/125/150/200
32 x 125/150
50 x 100/150/200
63 x 100/150/200
75 x 150/200

- **Strength**

The Accoya® process has minimum but important affects on strength characteristics of wood. For structural applications a special Accoya Structural product (C24 equivalent) is available.

- **Texture**

Moderately even and fine

- **Treatability**

Very easy to impregnate liquids

- **Uses**

Good - Easy to work and finishes excellently. Takes nails, glue, stains and polish well. More information to be found in the [Accoya Wood Information Guide](#).

- **Working qualities**

Joinery, Cladding (exterior & interior), Decking, Louvres / Brise soleil

Specialised glues are required for gluing and laminating this material, please contact supplier.

3. Site Expectations – Natural Characteristics

All timber materials **MUST** be stored in accordance with good site practice, please refer to our [Storing of Timber document](#).

This product is relatively defect free but occasional end split can occur. The process can also create a darkening of the surface, which may not all be removed on machining, this means that some streaking may be visible under light and translucent coatings.