

DID YOU KNOW?



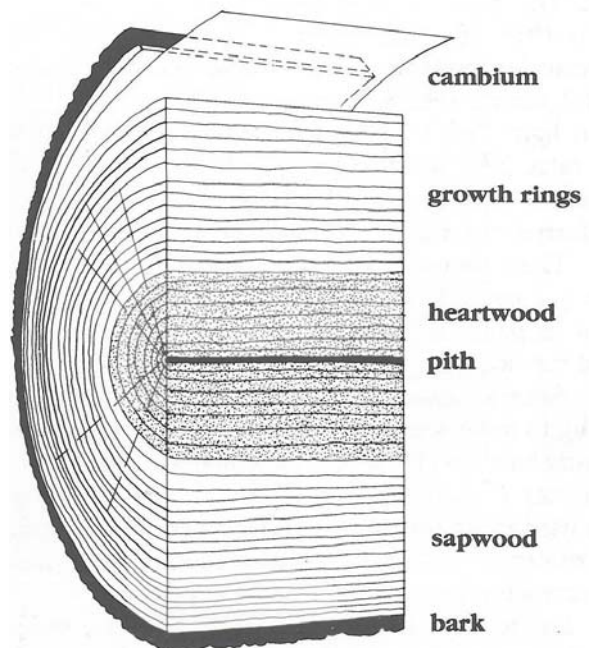
Hints and tips from the Technical Department

AFFECT OF TIMBER ON FINISH DURABILITY

The durability of stains and, to a lesser extent, paints, is dramatically influenced by the nature and the milling of the timber used on a job.

Six factors must be considered in the expectation of stain or paint durability when timber is selected for exterior cladding on a job.

- Species of timber selected
- Presence of defects in the timber
- Nature of the timber surface
- Angle of the grain at the surface
- Log orientation of the weathering face of the timber
- Heart or sap timber



Species of timber selected: §111.2.5 of NZS 3602:2003 permits the use of only redwood, heart cypress, western red cedar and sawn H3.2 treated Radiata pine as a weatherboard or exterior finishing timber, if the cladding is to be left in an uncoated state or finished with a penetrating stain.

Presence of defects in the timber: §111.2.3 of NZS 3602:2003 does not allow holes, resin or bark pockets or knot sizes greater than 50mm, or 25mm for spike knots, in weatherboards or exterior finishing timber.



Standard Knot

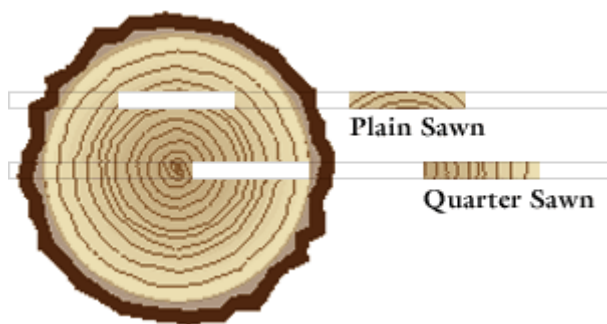


Spike Knot

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Nature of the timber surface: For penetrating stain finishes rough sawn and band sawn timbers are more durable than dressed timber as they have a greater uptake of stain and are more porous than dressed timber.

Angle of grain at the surface: Plain sawn timber from the outer edges of the log is less durable than quarter sawn timber as it exposes more of the dense, resin rich, late summer growth and has a tendency to warp.



Log orientation of the weathering face of the timber:

Plain sawn timber from the outer edges of the log is less durable if the weathering face is from the pith side of the log than if it is from the bark side of the log.

Heart timber: Heart timber is more durable than sap timber, and plain sawn boards from the edge of the log are mostly sap timber, leading to reduced durability of these boards as well as the outer edges of quarter sawn boards.



Weathering of plain sawn vs quarter sawn dressed Cedar



Warping of band sawn plain sawn Radiata Pine



Bleed from Resin Pockets

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