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# RED IRONBARK



## RED IRONBARK

THE STRENGTH AND DURABILITY OF THIS AUSTRALIAN HARDWOOD HAS SEEN IT USED THROUGHOUT THE AGES AS A PREFERRED STRUCTURAL TIMBER.

Red Ironbark is a very strong Australian hardwood that originated from QLD and NSW. Today Red Ironbark is used for all manner of building construction materials from poles to posts and beams and is ideal for hardwearing areas such as flooring and decking. Whilst being quite hard to work with due to its density and hardness it also polishes to a high sheen and as such is frequently used for furniture, benchtops, bars and even in boat-building.

The heartwood is a deep rich dark red to red-brown in colour. The sapwood by contrast is a pale yellow. The timber's texture is fine with an interlocked grain.



<b>COMMON NAME</b>	Red Ironbark
<b>LOOK &amp; FEATURES</b>	Highly durable with a medium and even texture
<b>BOTANICAL NAME</b>	Eucalyptus sideroxyton, Eucalyptus creba fibrosa
<b>COLOUR</b>	The heartwood colour is deep red. Sapwood is very distinctive, being pale yellow in colour
<b>COMMON USES</b>	A wide range of external applications including heavy engineering, marine structures, poles, sleepers, framework, flooring and decking

## PROPERTIES

DENSITY (KG/M3)	
GD	1200
ADD	1100
HARDNESS KN (JANKA)	
Green	N/A
Dry	11.9
DURABILITY CLASS	1
STRENGTH GROUP	S2/SD3
JOINT GROUP	J1/JD1
SHRINKAGE	
Radial % (approx.)	3.5
Tangential % (approx.)	7
STRUCTURAL GRADES	
Unseasoned	F11/F14/F17
Seasoned	F22/F27
TOUGHNESS (NM)	
Green	High
Dry	Medium/High
EARLY FIRE HAZARD INDICES	
Ignitability	Not available
Spread of Flame	Not available
Smoke Development	Not available
TERMITE RESISTANT	(toAS3660) Yes
LYCTID SUSCEPTIBLE SAPWOOD	Yes



# GREY IRONBARK



## GREY IRONBARK

GREY IRONBARK IS THE PINNACLE OF VERSATILE AUSTRALIAN HARDWOODS.

This versatility has seen it expand into a new, limitless range of applications including cladding, flooring, decking and joinery products as well as feature posts and beams.

With a deep patina, the colour palette of the Grey Ironbark varies from a mahogany like appearance to pale and dark shades of brown and rich reds.

Suitable for high exposure applications due to its exceptional durability and incredible strength. Grey Ironbark is the top choice for exterior exposed applications.

Today Grey Ironbark is also recognised for its rich, warm colouring and stunning patina, revealing its adaptability and suitability as an internal building material.



<b>COMMON NAME</b>	Grey Ironbark
<b>LOOK &amp; FEATURES</b>	Moderately coarse & even texture, heavy, hard & compact
<b>BOTANICAL NAME</b>	Eucalyptus paniculata Eucalyptus siderophloia
<b>COLOUR</b>	Pale through to dark brown with occasional darker reds
<b>COMMON USES</b>	Cladding, flooring and decking, joinery, feature posts and beams, framework

## PROPERTIES

DENSITY (KG/M3)	
GD	1250
ADD	1100
HARDNESS KN (JANKA)	
Green	11
Dry	16.3
DURABILITY CLASS	1
STRENGTH GROUP	S1/SD1
JOINT GROUP	J1/JD1
SHRINKAGE	
Radial % (approx.)	4.5
Tangential % (approx)	7.5
STRUCTURAL GRADES	
Unseasoned	F14/F17/F22
Seasoned	F27/F34+
TOUGHNESS (NM)	
Green	High
Dry	High
EARLY FIRE HAZARD INDICES	
Ignitability	13
Spread of Flame	3
Smoke Development	3
TERMITE RESISTANT	(toAS3660) Yes
LYCTID SUSCEPTIBLE SAPWOOD	No



# BLACKBUTT



## BLACKBUTT

BLACKBUTT IS THE IDEAL TIMBER FOR A WIDE VARIETY OF CLADDING, FLOORING AND DECKING APPLICATIONS.

A popular choice for architects, builders and designers, Blackbutt is admired for its incredible durability and fire resistant properties. Perfect for large fit outs (e.g. shopping centres and high rise buildings) Blackbutt is a readily available and versatile timber.

A beautiful hardwood, Blackbutt presents a relatively straight and uniform grain with an appealing colour palette, ranging from cream to pale brown with a hint of pink.

With a reputation for excellence, Kennedy's Class One Durability Blackbutt is in high demand within the commercial building industry. Our recycled Blackbutt is graded according to the Interim Industry Standards whilst our new certified Blackbutt is AFS approved (Australian Forestry Standard).



<b>COMMON NAME</b>	Blackbutt
<b>LOOK &amp; FEATURES</b>	A particularly strong and durable timber that can display gum and veins giving it a unique look.
<b>BOTANICAL NAME</b>	Eucalyptus pilularis
<b>COLOUR</b>	A subtle colour range where light and neutral is required from golden yellow through to pale browns. May have a slightly pinkish tinge.
<b>COMMON USES</b>	An extremely versatile timber with uses ranging from posts and beams through to decking, flooring and furniture.

## PROPERTIES

DENSITY (KG/M3)	
GD	1150
ADD	900
HARDNESS KN (JANKA)	
Green	6.4
Dry	8.9
DURABILITY CLASS	
1	
STRENGTH GROUP	
S2/SD2	
JOINT GROUP	
J2/JD2	
SHRINKAGE	
Radial % (approx.)	4
Tangential % (approx.)	7
STRUCTURAL GRADES	
Unseasoned	F14/F17/F22
Seasoned	F22/F27
TOUGHNESS (NM)	
Green	Medium
Dry	Medium
EARLY FIRE HAZARD INDICES	
Ignitability	13
Spread of Flame	7
Smoke Development	3
TERMITE RESISTANT	(toAS3660) Yes
LYCTID SUSCEPTIBLE SAPWOOD	No



# Queensland White Cypress



White Cypress is a popular Australian softwood for construction and fencing. Cypress has a very distinct odour, which is a result of a variety of natural resins within the wood. These resins are what give the timber its impressive natural durability. Cypress is known for its distinctive tight knots and fine grain.

**Origin-** Grows in most states but Queensland due to the drier regions produce the best quality of species

## PROPERTIES (in accordance to the AS 5604)

### Strength Group

Unseasoned	S5 (Medium)
Seasoned	SD5 (Medium)

### Durability

In-Ground	Class 2 (15 – 25 years)
Above-Ground	Class 1 (40 years +)

### Density

Unseasoned	770 kg/m <sup>3</sup>
Seasoned	670 kg/m <sup>3</sup>

### Hardness

Unseasoned	5.6Kn (Janka)
Seasoned	6.5Kn (Janka)

**Termite Resistant**                      Resistant

## GENERAL COMMENTS

Sustainable F7 Structural Queensland White Cypress Pine is the very best product for post and rails that will last a lifetime- BAL 12.5 fire rated

White Cypress is termite and ant resistant and has one of the lowest shrinkage rate of 2.9%

Macrocarpa is not as durable as White Cypress and is not recommended for in-ground use.

Because of its susceptibility to fine surface checking, it gives a better painting performance when coated in the unseasoned condition; by slowing down the initial drying rate the coating inhibits the formation of checks.



*Cypress Pine Posts (200 x 200 various lengths)*

## USES

- Posts
- Flooring
- Cladding
- Panelling
- Building Framework
- Bollards
- Landscaping
- Fencing
- Playgrounds & Pergolas.

# Araucaria Fact Sheet



## OVERVIEW

Plantations are sustainably managed 340,000 hectares of forest throughout the state of Queensland including plantations totalling over 209,000 plantable hectares (ha) (516,000 acres). Our plantation estate includes native softwood Araucaria plantations over 44,300 ha (109,500 acres).

## SPECIES

Known commonly as hoop pine and commercially as Araucaria, *Araucaria cunninghamii* is one of the few endemic rainforest species that has been successfully domesticated for timber production. Over 50 years of genetic improvement in combination with silvicultural regimes (high stocking and pruning) combine to result in knot free and high strength timber. It is drought and pest and disease resistant, but is susceptible to fire.

## ARAUCARIA PRODUCTION

Araucaria is generally grown for 45 years or longer and plantations manage the harvest and processing of the trees into a range of log products that gives the best value recovery from each tree. The various log grades are then sorted and distributed from the forest to our various customers.

## ARAUCARIA USES

Araucaria is a versatile and beautiful product, ideal for appearance grade applications. It has fine grain and texture, even colour and is easily painted or stained.

Araucaria has exceptional structural properties such as superior strength to weight ratios and dimensional stability.

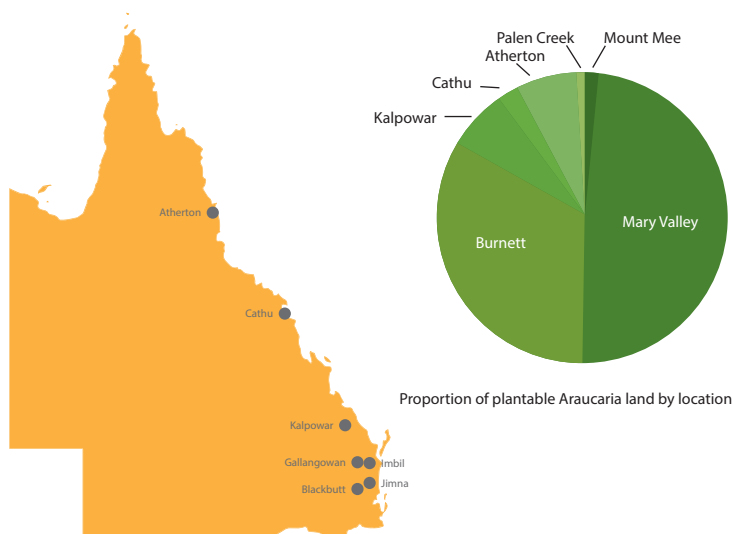
Araucaria is also a food grade timber, with no odour, saps or resins.

<b>High grade solid sawn clearwood</b> Floorboards, joinery and furniture	<b>Veneers and engineered wood</b> Plywood
<b>Structural timber</b> Framing and internal and external beams	<b>Food grade products</b> Ice-cream sticks, toys and baby cots
<b>Mouldings</b> Architrave and skirting boards	<b>Speciality products</b> Musical instruments and boat manufacture

## ARAUCARIA PROPERTIES (IN COMPARISON TO OTHER SPECIES\*)

PROPERTY	ARAUCARIA	SOUTHERN PINE	RADIATA PINE
Bending Strength (MPa) Modulus of Rupture	90	92-112	79-86
Stiffness (GPa) Modulus of Elasticity	13	12-14	8-10
Density (kg/m <sup>3</sup> ) at 12% MC	560	410-480	390-420

\*Harding et al. 2010, FWPA



## FOREST CERTIFICATION

Araucaria forest management practices are independently certified to internationally recognised standards, Responsible Wood (RW/1-21-3) and Forest Stewardship Council® (FSC-C107541), providing customers, stakeholders, neighbours and other forest visitors with the assurance that our forest estate is managed sustainably.

## LOCATIONS

Our Araucaria plantations are located in:

- South East Queensland in Mary Valley and Brisbane Valley (around Imbil, Jimna, Gallangowan and Blackbutt)
- Central Queensland at Kalpowar (near Monto) and Cathu (near Mackay)
- North Queensland near Atherton.

## FURTHER INFORMATION

[www.gilltimbers.au](http://www.gilltimbers.au)  
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