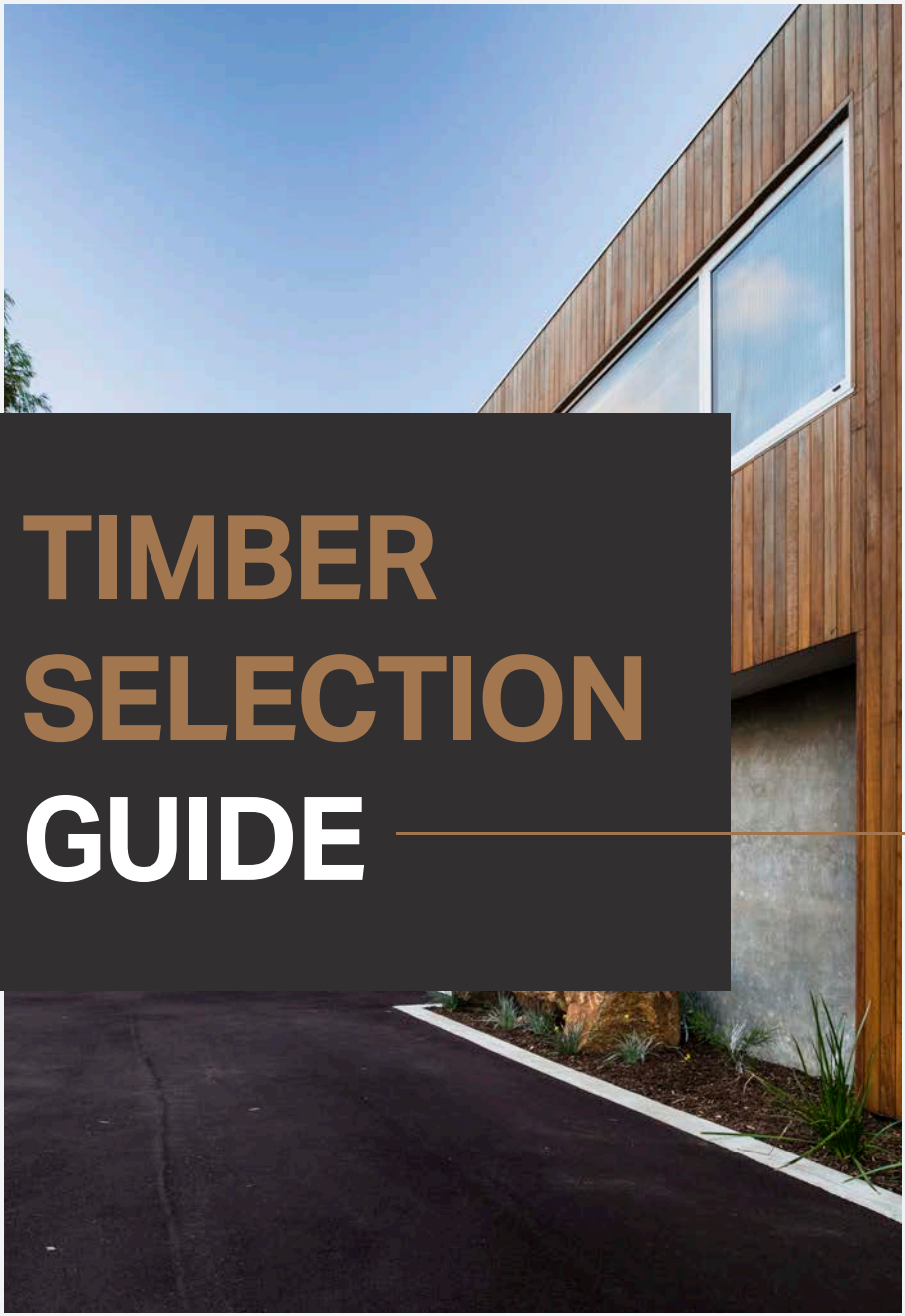


TIMBER SELECTION GUIDE

ARCHITECTURAL HARDWOOD DECKING, CLADDING & CEILING SYSTEMS

MORTLOCK TIMBER

1800 894 400
info@mortlock.com.au
www.mortlock.com.au



Mortlock Timber helps bring Architects & Builders visions to life by designing and manufacturing architectural timber wall and ceilings linings.

Our production facility has the latest technology in processing equipment which allows us to profile and supply timber products to your exact requirements. We have a solid network of global suppliers enabling us to bring you a wide range of durable timber species so that you can customise and enhance any project.

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Important Note:

This guide has been produced to assist with timber selection for our products. As timber is a natural product the images in the guide may not fully represent the timber species colour range. We recommend viewing samples before making your final decision. All finishes listed in this guide can be factory applied by Mortlock Timber.

AMERICAN WHITE OAK

American white oak is a hardwood common throughout the eastern United States. Due to its interesting and prominent grain pattern and consistency of colour it is a popular species for interior feature timber wall and ceilings.

PROPERTIES	
Origin	North America
Sustainability	FSC available on request
Availability	Readily available.
Density (Dry)	750 kg/m3
Durability	Class 3
Tangential Shrinkage	6.6%
Termite Resistance	Not Resistant
Lyctid Susceptibility	Susceptible
Fire	Group 3, BAL 12.5 and 19 - All AS 3959 Required Applications
Use	Interior Use Only

APPEARANCE

The heartwood of American white oak is pale yellow-brown to mid-brown, sometimes with a pink tinge. The sapwood is light coloured. It is mostly straight grained with a medium to coarse texture, and with longer rays and more figure than red oak. It has large distinctive growth rings and some medullary rays may be present.

AVAILABLE FINISHES



UNFINISHED	
Use	Interior

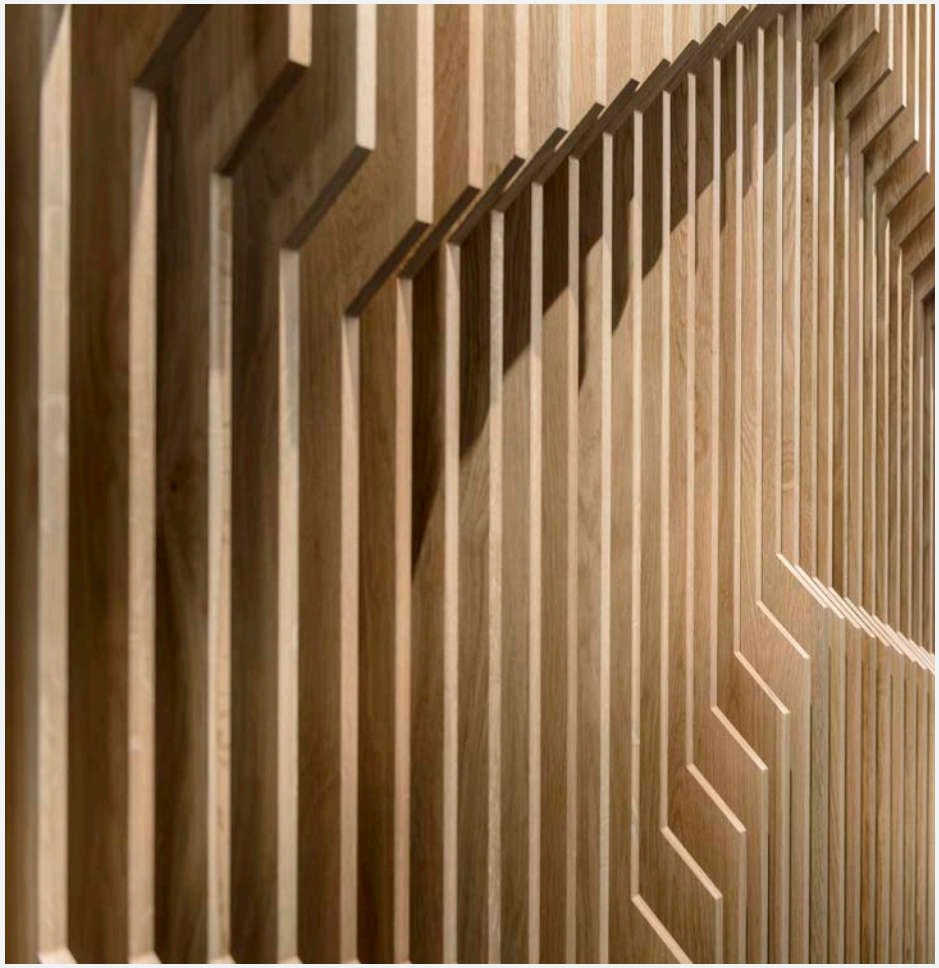


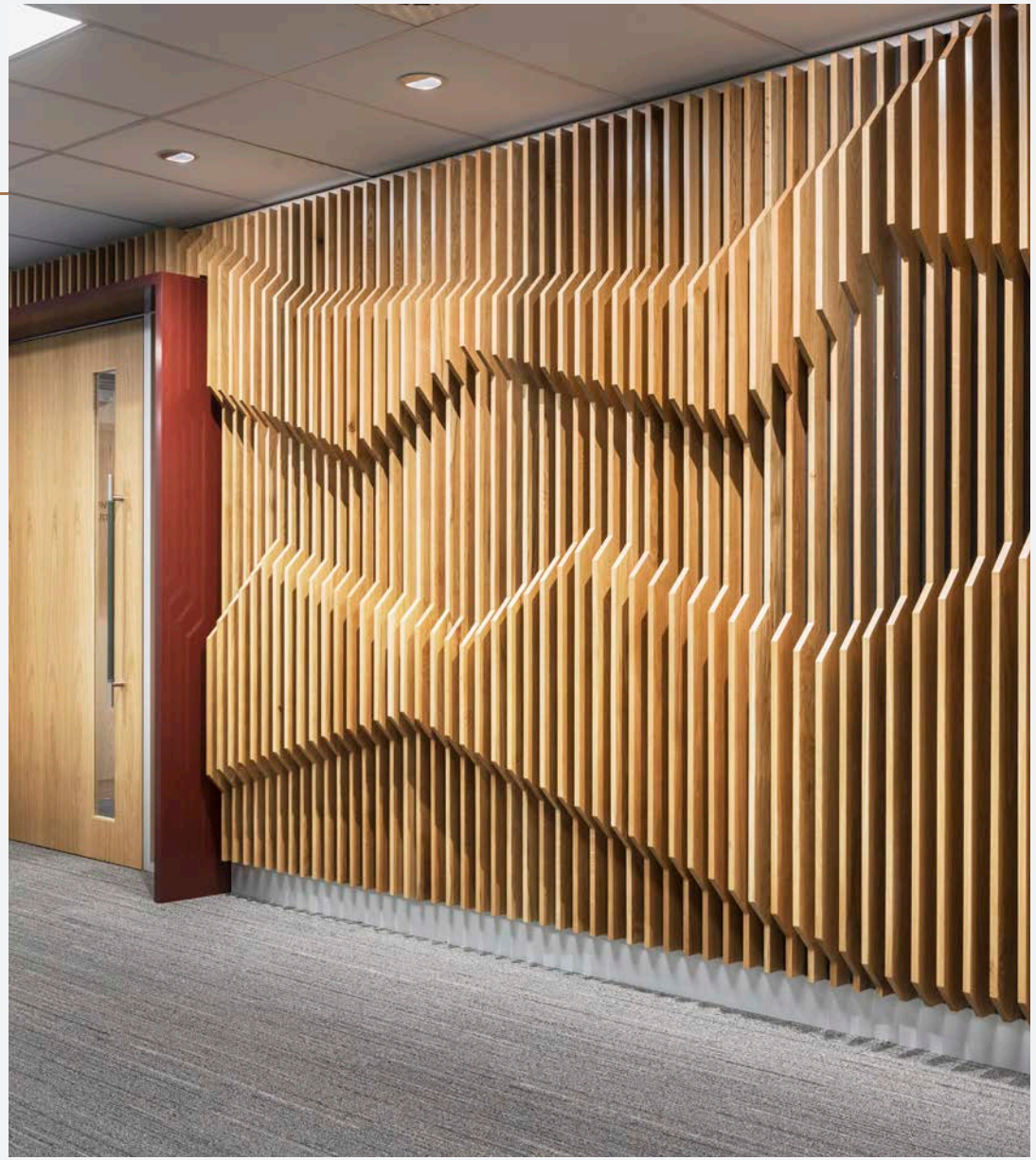
ENVIRO CLEAR	
Use	Interior



FIRESHIELD	
Use	Interior

AMERICAN WHITE OAK





BLACKBUTT

Blackbutt is a versatile timber and is used for structural, exterior, and interior applications. In New South Wales and southern Queensland, it is very popular for timber framing but is also used for cladding, internal and external walls and ceilings, decking, joinery, landscaping, and furniture.

PROPERTIES	
Origin	New South Wales & Queensland
Sustainability	PEFC certification on request
Availability	Readily available.
Density (Dry)	900 kg/m3
Durability	Class 1
Tangential Shrinkage	7.3%
Termite Resistance	Resistant
Lyctid Susceptibility	Not Susceptible
Fire	Group 3, BAL 12.5, 19 and 29 – All AS3959 required applications
Use	Interior and Exterior Use

APPEARANCE

Blackbutt has an even texture. The grain can be interlocked but it is generally straight. The heartwood ranges from golden yellow to pale brown, although occasionally a slight pinkish colour may be present. The sapwood, which is not always easy to distinguish, is much paler in appearance. Small gum veins may also be visible.

AVAILABLE FINISHES



UNFINISHED	
Use	Interior & Exterior



ENVIRO CLEAR	
Use	Interior



CLEAR OIL	
Use	Interior & Exterior

AVAILABLE FINISHES



UNFINISHED, FINE SAWN	
Use	Interior & Exterior



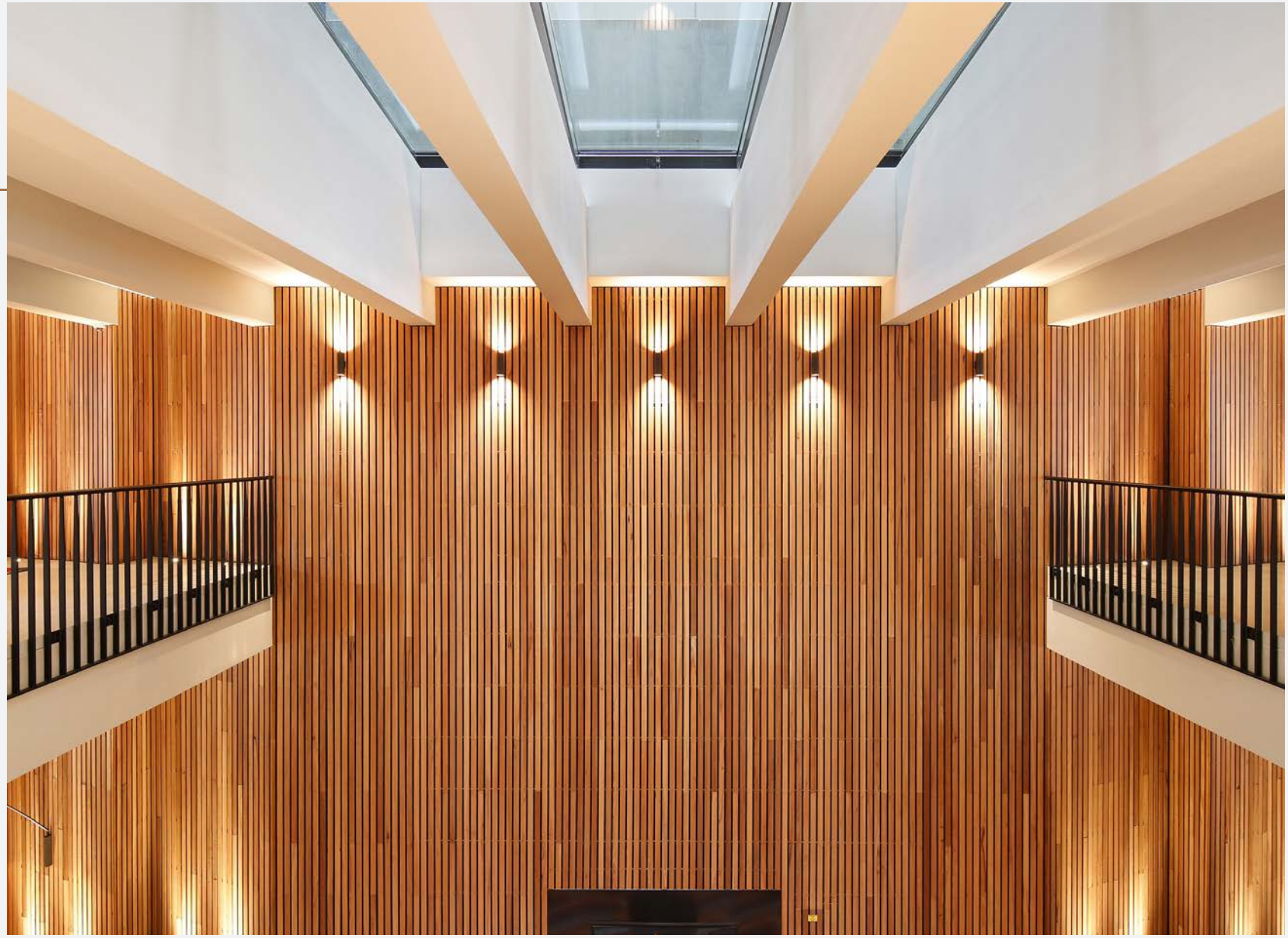
FIRESHIELD	
Use	Interior



CLEAR OILED, FINE SAWN	
Use	Interior & Exterior



BLACKBUTT



BURNT ASH

Burnt Ash is thermally modified American White Ash which is grown in North America and the Balkans. The thermal modification is the most natural, chemical free and sustainable method of wood preservation which enables wood to withstand and resist all weather conditions and minimises maintenance. The thermal modification process darkens the white ash into rich medium to dark chocolate colour.

PROPERTIES	
Origin	North America
Sustainability	FSC available on request
Availability	Readily available.
Density (Dry)	700 kg/m3
Durability	Class 1
Tangential Shrinkage	0.5%
Termite Resistance	Resistant
Lyctid Susceptibility	Not Susceptible
Fire	Group 3, Not BAL Rated
Use	Interior and Exterior Use

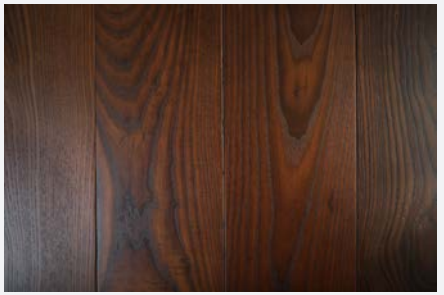
APPEARANCE

Burnt Ash is a rich to medium chocolate brown colour. Grain is generally straight with a course texture.

AVAILABLE FINISHES



UNFINISHED	
Use	Interior & Exterior



ENVIRO CLEAR	
Use	Interior



CLEAR OILED	
Use	Interior & Exterior

AVAILABLE FINISHES



UNFINISHED, FINE SAWN	
Use	Interior & Exterior



FIRESHIELD	
Use	Interior



CLEAR OILED, FINE SAWN	
Use	Interior & Exterior



BLACK ASH OII.	
Use	Interior & Exterior



BURNT ASH SHOU SUGI BAN	
Use	Interior & Exterior

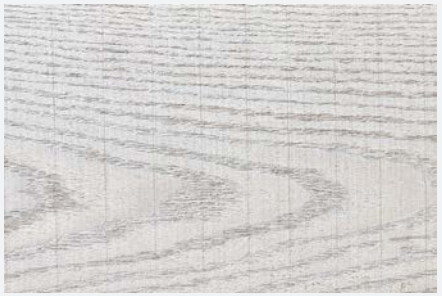


BLACK ASH OII., FINE SAWN	
Use	Interior & Exterior

AVAILABLE FINISHES



SIOOX WEATHER PROTECTION	
Use	Exterior



SIOOX WEATHER PROTECTION, FINE SAWN	
Use	Exterior



BURNT ASH



IRONBARK

Ironbark is ideal for applications that require excellent durability and strength, including wharf and bridge members, poles, railway sleepers, and mining timbers. The timber is also suitable for all building construction materials from poles, framing, flooring, decking, and cladding.

PROPERTIES	
Origin	New South Wales & Queensland
Sustainability	PEFC available on request
Availability	Readily available.
Density (Dry)	1050 kg/m3
Durability	Class 1
Tangential Shrinkage	6.3%
Termite Resistance	Resistant
Lyctid Susceptibility	Susceptible
Fire	Group 3, BAL 12.5, 19 and 29 – All AS3959 required applications
Use	Interior and Exterior Use

APPEARANCE

Ironbark ranges from light grey or light chocolate to darker reds and browns. The texture is moderately coarse and even, and the grain usually straight, and only occasionally inter-locked. Ironbark may have regional variations in colour, with some having dark narrow to broad streaks running through the timber.

AVAILABLE FINISHES



UNFINISHED	
Use	Interior



CLEAR OILED	
Use	Interior & Exterior



CLEAR OILED, FINE SAWN	
Use	Interior & Exterior

AVAILABLE FINISHES



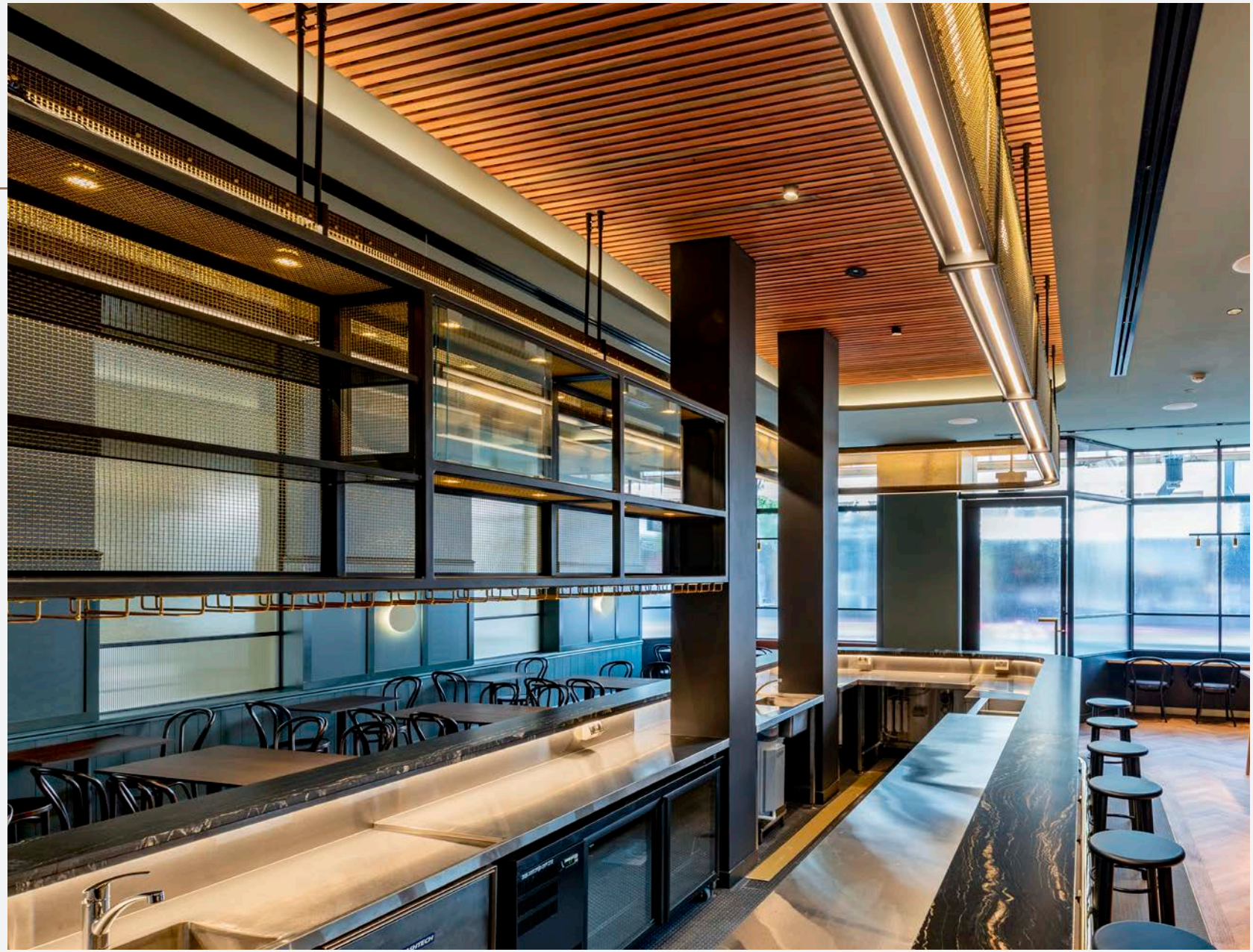
UNFINISHED, FINE SAWN	
Use	Interior



CLEAR OILED	
Use	Interior & Exterior



IRONBARK



JARRAH

Jarrah's natural properties include a high resistance to weather, rot, termites, and even marine borers, making it valuable for a range of uses and especially in exterior applications. Jarrah has a history of use in engineering applications such as wharf and bridge construction, railway sleepers, cross-arms, piles, and for road bases. Its structural applications include posts and poles, framing, flooring, lining, decking, and cladding.

PROPERTIES	
Origin	Western Australia
Sustainability	PEFC available on request
Availability	Readily available.
Density (Dry)	820 kg/m3
Durability	Class 2
Tangential Shrinkage	7.4%
Termite Resistance	Resistant
Lyctid Susceptibility	Susceptible
Fire	Group 3, BAL 12.5 and 10 per all AS3959 applications; BAL 29 when used in conjunction with non-combustible wall cladding and enclosed subfloor.
Use	Interior and Exterior Use

APPEARANCE

Jarrah is renowned for its rich red colours that deepen over time. The heartwood ranges from deep browns to burgundy hues. Jarrah sapwood exhibits shades from pale yellow to pink orange. The timber displays a moderately coarse and even textured grain. The occasional incidence of wavy and interlocking grain produces some samples with a sought-after fiddle-back figure.

AVAILABLE FINISHES



UNFINISHED	
Use	Interior



ENVIRO CLEAR	
Use	Interior



CLEAR OILED	
Use	Interior & Exterior

AVAILABLE FINISHES



UNFINISHED, FINE SAWN	
Use	Interior



FIRESHIELD	
Use	Interior



CLEAR OILED, FINE SAWN	
Use	Interior & Exterior



SHOU SUGI BAN	
Use	Interior & Exterior



SHOU SUGI BAN, FINE SAWN	
Use	Interior & Exterior

JARRAH





PACIFIC TEAK

Pacific Teak is an extremely stable timber and held in high regard for boat-building due to its durability, strength, excellent steam bending and working properties. Suitable for engineering, general construction, high quality joinery, flooring, decking, windowsills, staircase materials and carving. Ideal for internal and external battens, cladding, and decking.

PROPERTIES	
Origin	Pacific Islands
Sustainability	N/A
Availability	Readily available.
Density (Dry)	750 kg/m3
Durability	Class 2
Tangential Shrinkage	2%
Termite Resistance	Resistant
Lyctid Susceptibility	Resistant
Fire	Group 3, BAL 12.5 and 19 – All AS3959 required applications
Use	Interior and Exterior Use

APPEARANCE

Olive, pale yellowish to creamy grey appearance.

AVAILABLE FINISHES



UNFINISHED	
Use	Interior



ENVIRO CLEAR	
Use	Interior



CLEAR OILED	
Use	Interior & Exterior

AVAILABLE FINISHES



UNFINISHED, FINE SAWN	
Use	Interior



FIRESHIELD	
Use	Interior



CLEAR OILED, FINE SAWN	
Use	Interior & Exterior



PACIFIC TEAK



SPOTTED GUM

Spotted Gum has a long history of use in engineering applications such as wharf and bridge construction, railway sleepers, cross-arms, and mining timbers. It is used for a variety of applications, including structural building members, such as posts and poles, and for framing, flooring, lining, decking, and cladding.

PROPERTIES	
Origin	Queensland
Sustainability	PEFC available on request
Availability	Readily available.
Density (Dry)	990 kg/m3
Durability	Class 1
Tangential Shrinkage	6.1%
Termite Resistance	Resistant
Lyctid Susceptibility	Susceptible
Fire	Group 3, BAL 12.5, 19 and 29 – All AS3959 required applications
Use	Interior and Exterior Use

APPEARANCE

Spotted Gum ranges from light brown through definite browns to deep red-brown hues. Sapwood is white to light brown in colour and can be up to 50mm wide. Spotted gum is a moderately coarse and uneven textured wood with some timbers having the additional feature of a wavy grain, giving rise to an attractive fiddleback figure.

AVAILABLE FINISHES



UNFINISHED	
Use	Interior



ENVIRO CLEAR	
Use	Interior



CLEAR OILED	
Use	Interior & Exterior

AVAILABLE FINISHES



UNFINISHED, FINE SAWN	
Use	Interior



FIRESHIELD	
Use	Interior



CLEAR OILED, FINE SAWN	
Use	Interior & Exterior



SHOU SUGI BAN	
Use	Interior & Exterior



SHOU SUGI BAN, FINE SAWN	
Use	Interior & Exterior

SPOTTED GUM



VACOA, THERMALLY MODIFIED TIMBER

Vacoa is a sustainable Nordic Pine material produced in Europe, modified by a thermal heat and steam process. The thermal process is non-toxic, greatly increasing the stability of the timber for use in all applications both internally and externally. This high performing timber is a perfect natural and sustainable option for timber battens, lining and cladding.

PROPERTIES	
Origin	Europe
Sustainability	FSC available on request
Availability	Readily available.
Density (Dry)	430 kg/m3
Durability	Class 2
Tangential Shrinkage	3%
Termite Resistance	Not Resistant
Lyctid Susceptibility	Susceptible
Fire	Group 3, Not BAL Rated
Use	Interior and Exterior Use

APPEARANCE

Vacoa thermally modified pine offers a consistent colour range from mid to light brown tones.

AVAILABLE FINISHES



CLEAR OILED	
Use	Interior & Exterior



WOCA STONE GREY	
Use	Interior & Exterior



WOCA WALNUT	
Use	Interior & Exterior

AVAILABLE FINISHES



WOCA BLACK	
Use	Interior & Exterior



WOCA HAZELNUT	
Use	Interior & Exterior



SIOOX WEATHER PROTECTION	
Use	Exterior



VACOA



VIC ASH

Victorian Ash is the trade name for two of the tallest hardwood species in the world which are Alpine Ash and Mountain Ash. Its consistent and even colour means it is best suited for interior applications such as flooring, panelling, mouldings, staircases, handrails, balustrades, cupboards, bench tops, high value joinery, furniture as well as protected (e.g. painted) window joinery.

PROPERTIES	
Origin	Victoria, Tasmania, and New South Wales
Sustainability	PEFC available on request
Availability	Readily available.
Density (Dry)	650 kg/m3
Durability	Class 3
Tangential Shrinkage	8.5%
Termite Resistance	Not Resistant
Lyctid Susceptibility	Not Susceptible
Fire	Group 3, BAL 12.5 and 19 – Door and window joinery only
Use	Interior Use Only

APPEARANCE

Victorian Ash timber can range from a pale pink to pale yellow or brownish colour. The heartwood and sapwood colours are generally quite hard to tell apart, with sapwood 25 to 50mm wide. Victorian Ash features a moderately course texture and has a predominately straight grain, although it may be wavy in parts resulting in a fiddleback appearance. Gum veins are also a common appearance feature.

AVAILABLE FINISHES



UNFINISHED	
Use	Interior



FIRESHIELD	
Use	Interior



WOCA BLACK	
Use	Interior

AVAILABLE FINISHES



ENVIRO CLEAR	
Use	Interior



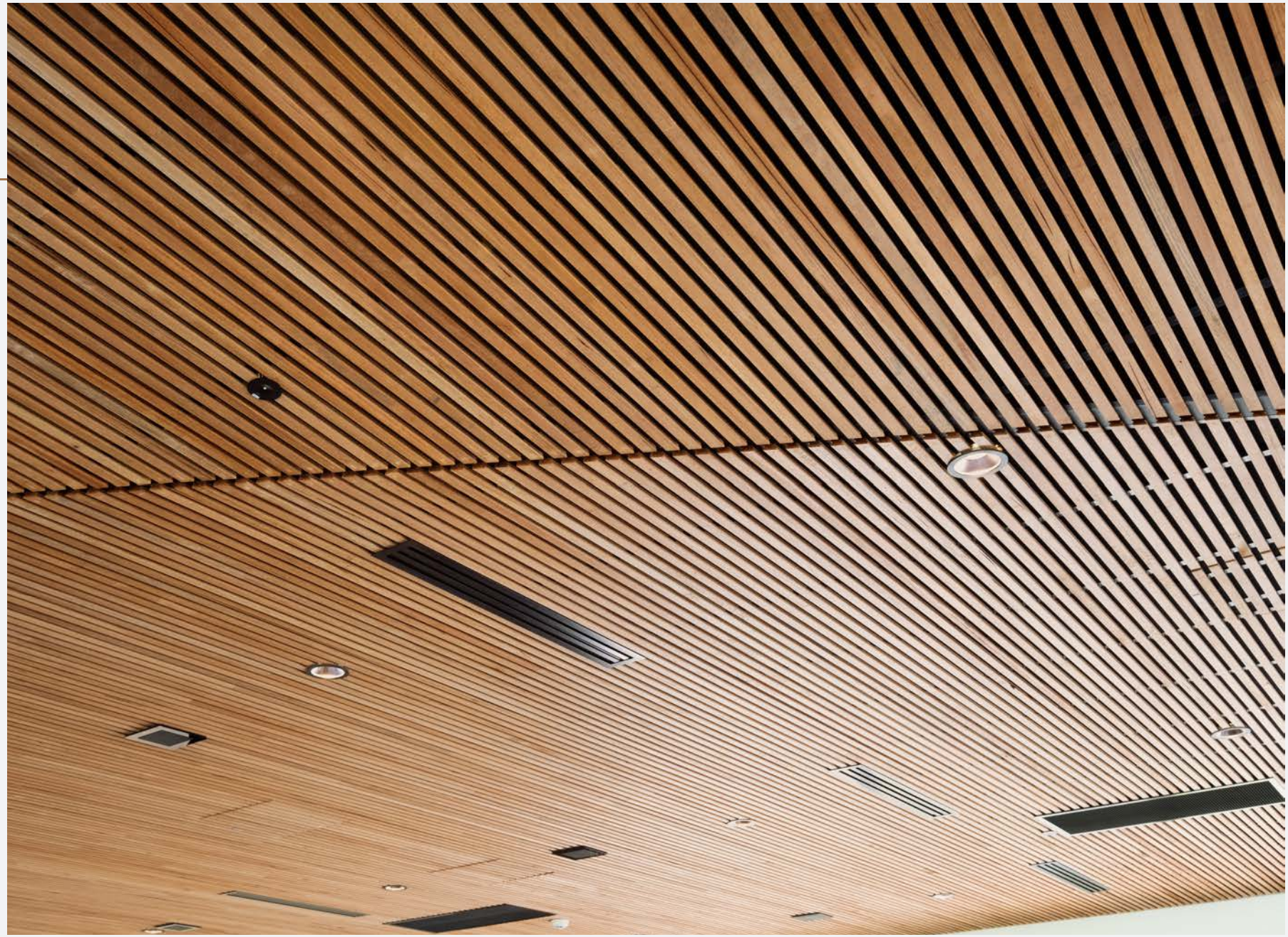
WOCA NATURAL OILED	
Use	Interior



WOCA WHITE	
Use	Interior



VIC ASH



FINISHES EXPLAINED

UNFINISHED

Unfinished timber means the timber is supplied with no coating applied. This is available for projects where coating will be applied on installation by the installer. It is not recommended to leave timber unfinished.

CUTEK CD50 / CLEAR OILED

Cutek clear oiled is the standard coating supplied unless others are requested. Cutek Oil is an oil-based coating that works by penetrating the surface of the timber. When exposed to the weather regular maintenance is required. Cutek Oil can have a light yellowing effect on some timbers and will highlight timber colour and natural features. Clear Oil will weather naturally without peeling or blistering. Where Cutek Oil is used for interior projects it can cause a slightly rough surface, if this is undesired the Enviro Clear option is recommended.
Cost: Low
Use: Interior & Exterior Applications. Facades, soffits, screening, decking, interior wall, and ceilings.
Supplier and further information:
https://www.cutek.com.au/product/cd50/

WOCA EXTERIOR WOOD OIL

WOCA is a special water-based composition of oil components ensuring that the product is water-dilutable and friendly to the environment. WOCA makes timber extremely water repellent and is a non- yellowing oil. The Natural option enhances the natural colour and grain of the wood without changing the colour, the timber looks untreated. Where WOCA is used for interior projects it can cause a slightly rough surface, if this is undesired the Enviro Clear option is recommended.
Cost: Medium
Use: Interior & Exterior Applications. Facades, soffits, screening, decking, interior wall, and ceilings.
Supplier and further information:
http://www.wocadenmark.com/shop/product/exterior-wood-oil

ENVIRO CLEAR

Enviro Clear is a water based LVOC product for interior use only. It is a film forming, non-yellowing coating which is easy to clean and requires minimal maintenance. Timber is sanded, and factory coated prior delivery with Enviro Clear providing a premium smooth furniture grade finish for interiors.
Cost: Medium - High
Use: Interior Applications Only. Enviro Clear is the ideal coating for high traffic areas, areas which require an easy to clean surface such as cafes, bars, and health environments

FIRESHIELD TIMBER CLEAR 1FR

Fireshield TIMBERCLEAR 1FR is a clear timber intumescent coating that is used to achieve a Group 1 and 2 fire rating to internal timber surfaces. Minimum order quantity applies.
Cost: High
Use: Interior Applications Only. Areas which require group 1 or 2 fire rating.
Supplier and further information: http://fireshieldcoatings.com/au/ourproducts/

FINISHES EXPLAINED

SIOOX WEATHER PROTECTION

Sioox is a wood modification system which to work effectively needs to penetrate the timber substrate as far as possible. After the treatment application, and, activated by moisture a curing reaction commences, which forms a flexible silica network. Over time, the mineral silicate cures by reacting with atmospheric carbon to precipitate an insoluble silica network within the wood structure. This curing process continues for around three years. The result is that the timber surface is toughened and an even accelerated weathering takes place which is a permanent change.

Cost: Medium - High

Use: Exterior Applications Only. Low maintenance option for exterior facades, screening, and battens.

Supplier and further information:

https://sioox.com/product/premium-wood-surface-protection-panel/

SHOU SUGI BAN

Shou-Sugi-Ban, also known as Yakisugi Cladding is a traditional Japanese method of charring timber with fire. The process forms a carbon layer on the exterior of the boards which protects the timber and reduces the maintenance. Mortlock manufactures the Shou Sugi Ban finish in-house.

Cost: Medium

Use: Interior & Exterior Applications. Low maintenance option for exterior facades, screening, soffits, interior feature walls and ceilings.

Further information:

https://www.mortlock.com.au/news/shou-sugi-ban-what-you-need-to-know

https://www.mortlock.com.au/timber-cladding/shou-sugi-ban/

FINE SAWN

Fine sawn is created by band sawing the surface of the timber which lightly roughens the surface and allows timber oil coatings or the Shou Sugi Ban finish to penetrate the surface deeply. The means the timber lasts longer without maintenance. Fine sawn timber adds another unique texture option. Fine sawn is not available with Fireshield or Enviro Clear coating options.

Cost: Low

Use: Interior & Exterior Applications. Exterior and interior cladding, wall, and ceiling lining.

CUSTOM FINISHES

For larger projects Mortlock offers a custom finishing service where stains and certain coatings can be applied to meet specific project requirements. For further details contact Mortlock Timber to discuss your requirements.

OTHER TIMBER SPECIES

Timber species listed in this guide are standard readily available options. Other timber species are available on request. For further details contact Mortlock Timber to discuss your requirements.

TIMBER GRADING

Mortlock timber grades its timber to standard and better grade (also called natural select grade) in accord with AS 2796.2-2006. Standard and better grade consists of 2/3 select grade and 1/3 standard grade. Standard and better allows timber to show its natural colours and characteristics without compromising consistency.

Images shown below are to illustrate the timber feature only, it does not mean that your timber will be supplied with feature to the extent of these images.




GUM VEINS	
Standard Grade	Gum veins less than 60 mm wide and 1m long & 2mm deep are acceptable
Select Grade	Gum veins less than 2mm wide, 250mm long, and 1/2 length in total are acceptable




TIGHT KNOTS	
Standard Grade	Tight Knots less than 1/3 the board width up to a maximum of 40mm are acceptable.
Select Grade	Tight Knots less than 15mm wide are acceptable.

Note: Vacoa is a knotty grade, the tight knot grading rules do not apply to Vacoa.




BORER HOLES	
Standard Grade	Borer holes less than 24 per 900mm depending on timber width are acceptable.
Select Grade	Borer holes less than 10 per 900mm depending on timber width are acceptable.




CHECKING	
Standard Grade	Checks less than 2mm wide & 250mm long are acceptable.
Select Grade	Checks less than 1mm wide & 250mm long are acceptable.

DESIGN & INSTALLATION CONSULTING

Our team can work through detailing and specification requirements to meet specific project requirements. We can assist with budget management without compromising aesthetics and ensure our products perform with an extended life cycle.

SAMPLES

Mortlock Timber Group samples department is stocked with our full range. We use express delivery service and generally deliver samples to your door within 2-3 days. Custom samples and sample boards can take 3-6 weeks depending on requirements.

MORTLOCK
TIMBER

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