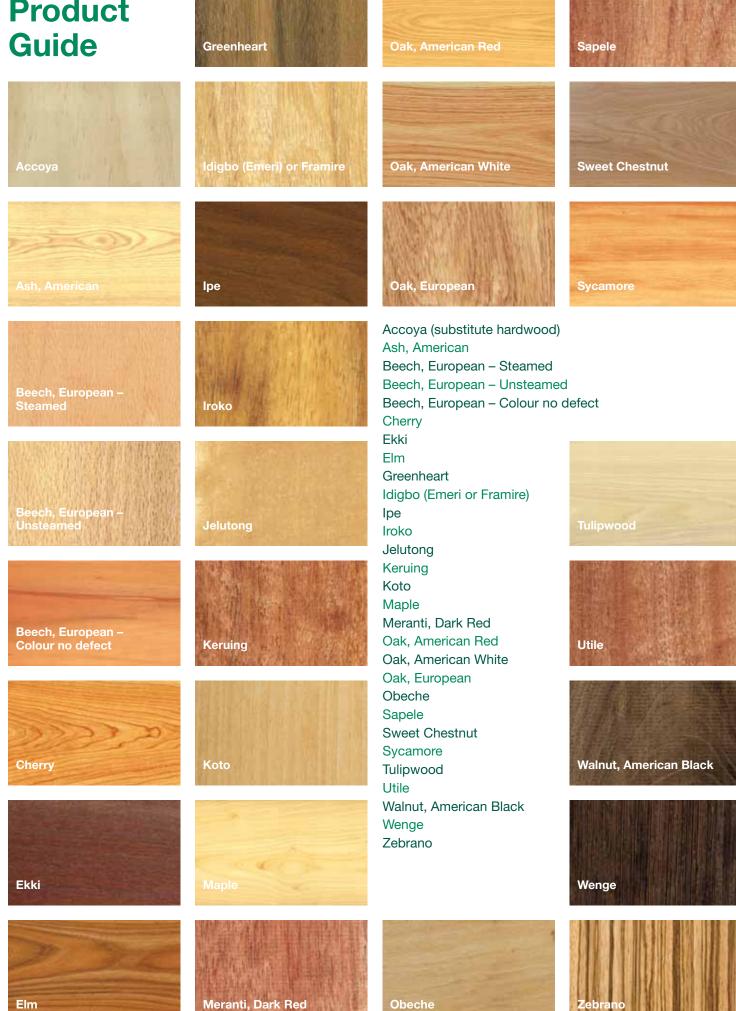
Arnold Laver TIMBER

Hardwood Product Guide



Hardwood **Product** Guide







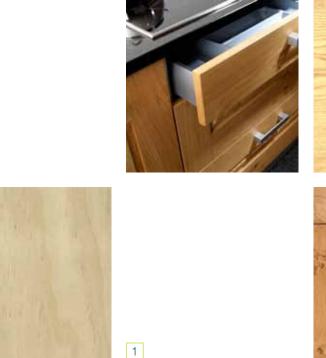
Arnold Laver Welcome to our hardwood collection

Hardwood is the ultimate versatile material, with applications ranging from exquisite veneers and furniture, through the world of musical instruments, to flooring, construction and boat-building. It is a material of real beauty, available in countless combinations of species, specifications and colours.

Our experience in hardwood, gained over decades of meeting the exacting requirements of our customers, is your guarantee of satisfaction. Whatever your hardwood requirements, we'll work with you to ensure that you get the most appropriate product at the best possible price.

At Arnold Laver, we carry what we believe to be one of the widest ranges in the UK and we pride ourselves on the high standards of our timber. We aim to be able to meet virtually any requirement from stock. When we can't we'll source it specially. We also offer a full machining service and can supply everything from simple lengths of timber to intricate mouldings.

When you choose us as your hardwood supplier, we see it as the start of a long-term relationship and we'll do everything within our power to earn your respect and retain your business.





Accoya
 Ash American
 Beech Steamed

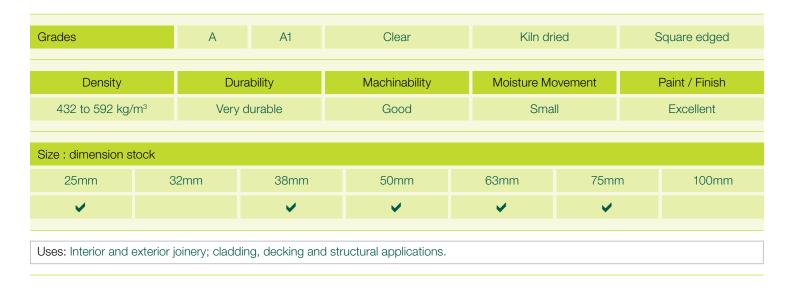
2



Accoya Substitute Hardwood

FSC available

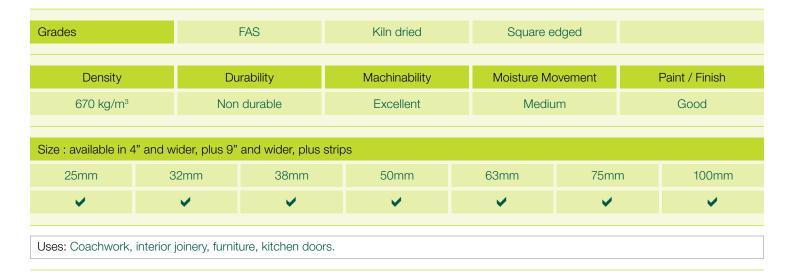
Accoya[®] wood is a leading product, with properties that match those of the best tropical hardwood. It is manufactured using a proprietary acetylation process and uses fast growing timber – such as Radiata Pine - from sustainable sources. Class leading dimensional stability together with an improved resistance to insect attack and moisture, help to deliver a very robust timber.



Ash American

Franxinus Spp

American ash is similar in appearance to European ash. The sapwood is light coloured to nearly white and the heartwood varies from greyish brown to light brown, to pale yellow streaked with brown. The degree and availability of light coloured sapwood, and other properties, will vary according to the growing regions. Southern ash lumber will be faster grown and contain more sapwood and therefore, a higher percentage of white colour, compared to Northern ash, which has a more open texture and grain. The wood is generally straight grained with a coarse uniform texture



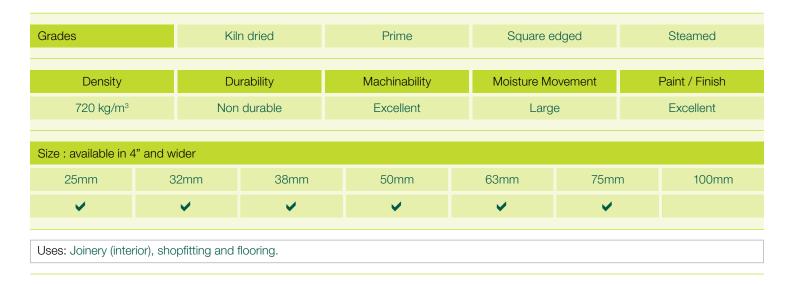
Beech, European – Steamed

Fagus Sylvatica

FSC/PEFC

FSC available

Often, there is no clear colour distinction between sapwood and heartwood, the wood being very pale brown when freshly cut, turning reddish-brown on exposure, and deep reddishbrown under the influence of steaming treatment. The wood is typically straight grained, with a fine, even texture, but varying in density and hardness according to the locality of growth.



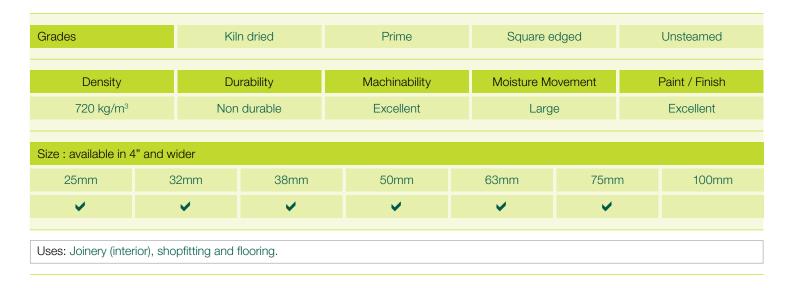


Beech, European – Unsteamed

Fagus Sylvatica

FSC available

Strong straight grained with plain appearance.



Beech, European – Colour no defect

Fagus Sylvatica

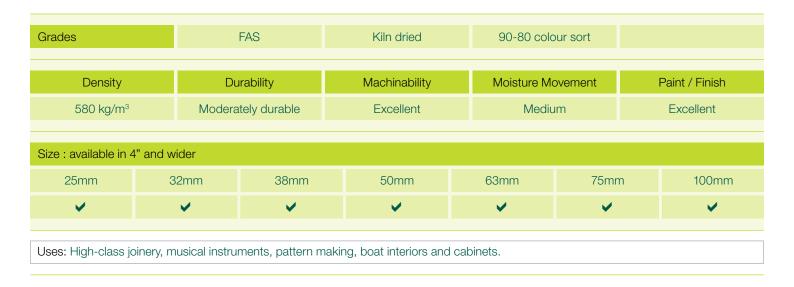
FSC/PEFC

Creamy or pale brown in appearance. Straight grained with an even texture.

irades		CND	Kiln dried	Square e	edged	
Density	C	Ourability Machinability		Moisture M	ovement	Paint / Finish
720 kg/m ³	No	n durable	Excellent	Larg	rge Excelle	
ize : available in 4'	" and wider					
25mm	32mm	38mm	50mm	63mm	75mm	100mm
~	~	v	 Image: A second s	v	~	

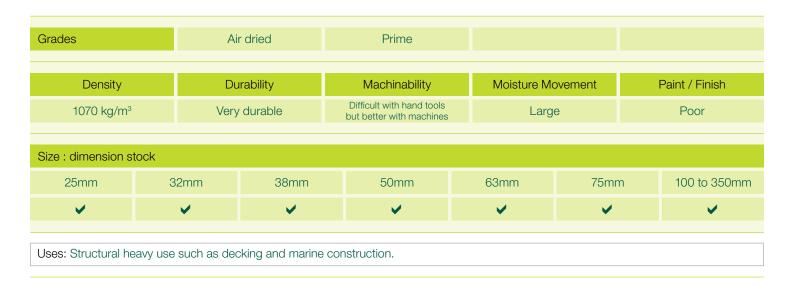
Cherry Prunus Spp.

The heartwood of cherry varies from rich red to reddish brown and will darken on exposure to light. In contrast the sapwood is creamy white. The wood has a fine uniform straight grain, smooth texture, and may naturally contain brown pith-flecks and small gum pockets.



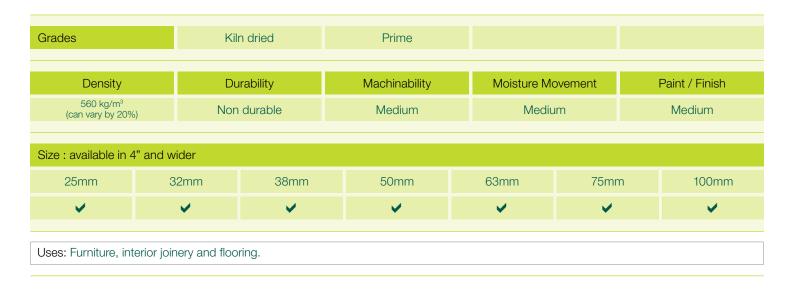
Ekki Lophira Alata

A hard heavy wood with sapwood that is pale pink and sharply defined from the heart-wood, which is red-brown to dark brown with a slightly speckled appearance due to white deposits in the pores. The grain is usually interlocked and the texture is coarse.



Elm Ulmus Spp.

The heartwood is a dull brown colour, clearly defined when green from the lighter-coloured sapwood. The irregular growth rings together with the cross-grained character of the wood gives it an attractive appearance, but the large early-wood pores produce quite a coarse texture.













- 1. Cherry
- 2. Ekki
- 3. Elm



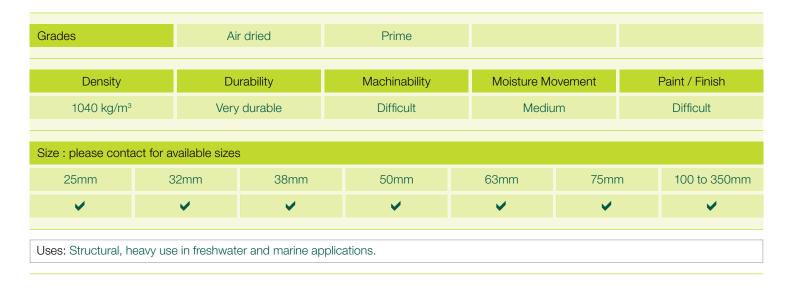
3

Greenheart

Ocotea Rodiaei

FSC available

Greenheart is a hard, heavy and elastic timber, but inclined to splinter when fractured. Greenheart is one of the strongest woods in tropical America. The sapwood is pale yellow / greenish, and is not clearly demarcated from the heartwood which varies in colour from yellowish-green, greenish-yellow, or light olive through golden yellow, dark olive, or yellowishbrown to very dark brown. blackish, or black. The wood from decayed or defective logs has a distinctive yellow colour. The grain can vary from being straight to showing a 'roey' figure, with a texture that is fine and uniform.









Greenheart
 Idigbo or Emeri
 Ipe

З

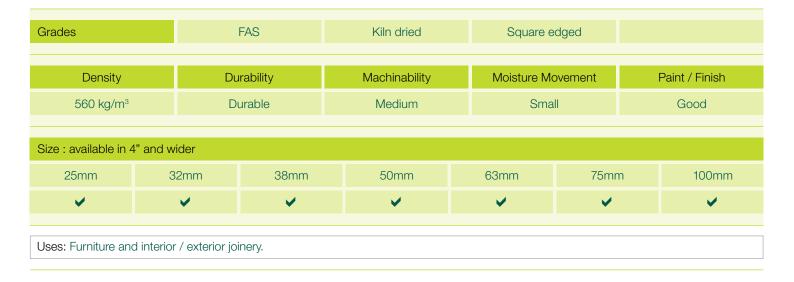




Idigbo (Emeri or Framire)

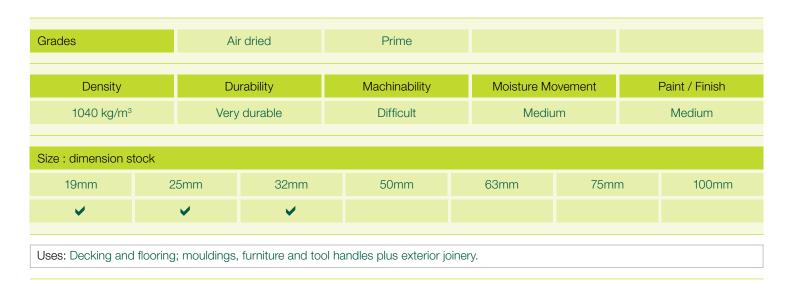
Terminalia Ivorensis

A durable medium weight timber with a plain, pale yellow to light brown coloured wood, sometimes showing a zonal figure originating in the growth rings, suggesting plain oak. There is little distinction between sapwood and heartwood, though the heartwood is darker in colour. The grain is straight to slightly irregular, and the texture is uneven and coarse.



Ipe Tabebuia Spp.

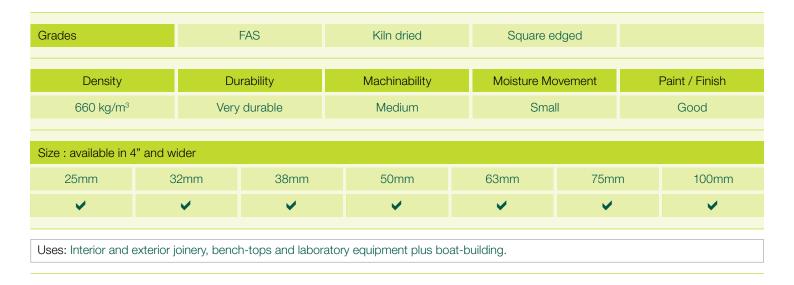
A heartwood which is yellow / green when first cut, turning a light to dark olive-brown with lighter or darker streaks. The texture is fine; the grain is straight to occasionally irregular, and the lustre is low to medium. Pores in the heartwood, which appear as fine yellow dots, are filled with a yellowish, powder (lapachol), and appear on longitudinal surfaces as yellow lines. The wood may appear oily and cold to the touch and often has fine ripple marks present.



Iroko Chlorophora Excelsa

FSC available

A durable attractive and strong timber, which has a heartwood that is a distinct yellow colour when cut; but on exposure to light it quickly becomes golden-brown. The sapwood is narrow and the grain is usually interlocked and the texture is rather coarse but even. Large, hard deposits of calcium carbonate called 'stone' deposits, are sometimes present in cavities, probably as a result of injury to the tree. They are often enclosed by the wood and not visible until the time of sawing, though the wood around them may be darker in colour, thus giving an indication of their presence.



Jelutong Dyera Costulata

A lightweight timber with a stable nature and easily worked. Soft and slightly brittle, the wood is creamy-white when first cut turning a pale straw colour after exposure. The planed wood is lustrous or very lustrous, without any figure, but slit-like radial passages may be seen on tangential lines as lens-shaped bodies. The grain is usually straight, and the texture is fine and even.

ades		Kiln dried	Select and Better	Square e	edged		
Density	Durability Machinability		Density Dura		Moisture Mo	ovement	Paint / Finish
470 kg/m ³	N	on durable	Good	Sma	all	Good	
ze : available in 6	" and wider						
ze : available in 6 25mm	and wider 32mm	38mm	50mm	63mm	75mm	100mm	

Our experience in hardwood, gained over decades is your guaded of satisfaction

Iroko
 Jelutong





1



Keruing
 Koto
 Maple

2



Keruing Dipterocarpus Spp.

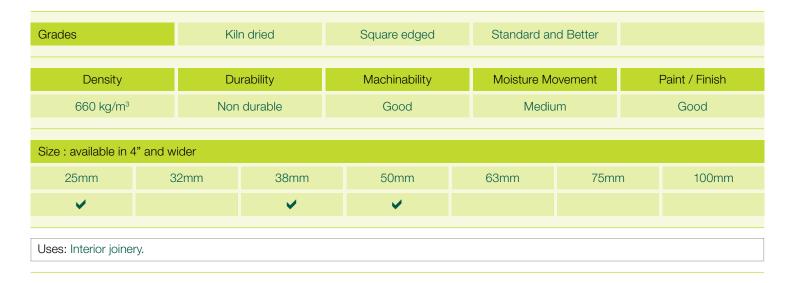
The grain is usually straight but may be shallowly interlocked, and the texture is moderately coarse or coarse, but even. The timber contains an oleo-resin which exudes in a number of pieces especially on the end grain when exposed to sunlight.

Grades	Squ	are edged	Standard and Better				
Density	ity Durability Machinability Moisture Movement		ovement	Paint / Finish			
740 kg/m ³	C	ourable	Medium	Medi	um	Difficult	
Size : dimension sto	ock						
25mm	32mm	38mm	50mm	63mm	75mm	100mm	
~	✓	~	~	~	~	✓	

Koto

Pterygota bequaertii / Pterygota macrocarpa

Koto is similar to Ramin with strength properties close to European Ash, but it is not as hard or tough and more susceptible to splitting. There is no distinction between the sapwood and heartwood and the timber is cream in colour, sometimes with a greyish tint. The texture is coarse and the grain interlocked.



Maple Acer Saccharum

FSC available

The wood has a close fine texture and is generally straight grained, but it can also occur as 'curly', 'fiddleback', and 'birds-eye' figure. Hard maple is strong, heavy and hard with heartwood that is light reddish-brown with deeper-coloured late-wood bands. The sapwood is white in colour, and furnishes the white maple prized for certain uses. It differs mainly from the soft maples in its greater density and firmer texture.

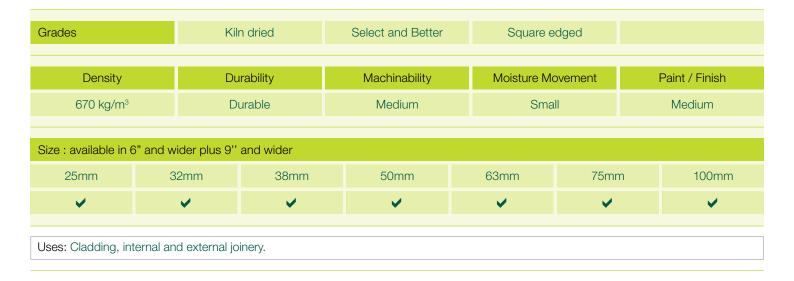
rades		FAS	Kiln dried	Square e	edged	
Density	(Durability	Machinability	Moisture Mo	ovement	Paint / Finish
630 kg/m ³	No	on durable	Medium	Sma	ll	Good
ze : available in 4						100
25mm	32mm	38mm	50mm	63mm	75mm	100mm
		V	\checkmark			

Meranti, Dark Red

Shorea Spp.

Quite durable and well suited to joinery, the sapwood is lighter in colour and distinct from the heartwood which is red-brown darkening to a dark red; planed surfaces fairly lustrous, stripe figure on radial surfaces. Grey-coloured narrow streaks are often present on all longitudinal surfaces, caused by concentric layers of resin canals. The texture is rather coarse but even, and the grain is interlocked and wavy.

PEFC



Oak, American Red

Querous Spp.

A non-durable timber which varies in colour from pink to pale reddish-brown; there is often a reddish cast to the wood although sometimes it approaches white oak in colour. The large rays do not produce such an attractive figure as they do in white oak, and generally speaking, the wood i s coarser in texture. The quality of red oak depends greatly

FSC available

rades		FAS	Kiln dried	Square e	edged	
Density	Du	urability	Machinability	Moisture M	ovement	Paint / Finish
770 kg/m ³	Modera	ately durable	Medium	Sma	all	Good
ze : available in 4" a 25mm	nd wider 32mm	38mm	50mm	63mm	75mm	100mm
~	v	~	~	~	V	

on growth conditions.

Oak, American White

Querous Spp.

American white oak is more variable in colour than European Oak, ranging from pale yellow-brown to pale reddish-brown, often with a pinkish tint. The numerous series of rays are generally higher than those of the red oaks producing a more prominent and attractive silver-grain figure on quarter-sawn surfaces. The grain is generally straight, and the texture varies from coarse to medium coarse.

FSC available



2





Meranti Dark Red
 Oak, American Red
 Oak, American White

З



Oak, European Querous Spp.

Normally straight grained but this, as well as the quality, will vary depending upon the origin of the timber. The heartwood ranges from yellow / brown to deep brown, whilst the sapwood is a lighter colour.

Grades	Capri oak	character grade	Kiln dried	Prim	е	Square edged
Density	Di	urability	Machinability	Moisture Mo	ovement	Paint / Finish
720 kg/m ³	C	Jurable	Medium to difficult	Sma	II	Good
Size : available 4'' a	and wider					
25mm	32mm	38mm	50mm	63mm	75mm	100mm
~	~	~	✓	~	~	~

Uses: Boat building, high-class joinery, coffins, flooring and ecclesiastical work. Sleepers, decking, cladding and structural applications.

Obeche

Triplochiton Scleroxylon

A fairly soft, but stable timber with a fine and even; the grain is often interlocked, giving a faintly striped appearance on quarter-sawn surfaces, otherwise there is seldom any decorative figure. The timber is creamy-white to pale yellow in colour with little or no distinction between the sapwood and heartwood; the sapwood however, may be up to 150mm wide.

ades		FAS	Kiln dried	Square	edged	
Density D		Durability	rability Machinability		ovement	Paint / Finish
390 kg/m ³	١	lon durable	Good	Small		Good
ze : available 4'' a	and wider					
25mm	32mm	38mm	50mm	63mm	75mm	100mm
~	~		v			

Uses: Mouldings, cabinet work, furniture and specialist joinery in musical instruments.

Whatever your hardwood requirements, we'll work with you







2

Sapele
 Sweet Chestnut
 Sycamore



FSC available

Sapele

Entandrophragma Cylindricum

A moderately durable timber with a pleasing appearance, Sapele is characterised by a marked and regular stripe, particularly pronounced on quarter-sawn surfaces. Occasionally mottle figure is present, It is fairly close textured, and the grain

1

is interlocked. The sapwood is pale yellow or whitish, the heartwood pinkish when freshly cut, darkening to typical mahogany colour of reddish-brown.

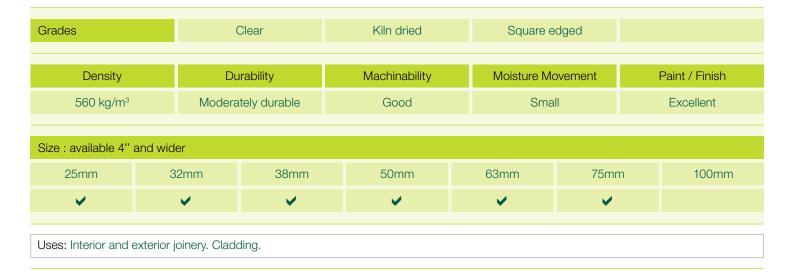
rades		FAS	Kiln dried	Square e	edged		
Density	D	urability	Machinability	Moisture Mo	ovement	Paint / Finish	
640 kg/m ³	C	Jurable	Medium	Sma	ll	Good	
ize : available 6" a	nd wider						
25mm	32mm	38mm	50mm	63mm	75mm	100mm	
v	~	v	~	~	~	~	

Sweet Chestnut

Castanea Sativa

FSC available

Straight grained and quite course in texture, the sapwood is narrow, and distinct from the heartwood which is yellowishbrown in colour; closely resembling oak in appearance. The grain may be straight, but is more commonly spiral, particularly in wood from old trees, while logs are liable to cup and ring-shake. It contains tannin, so blue-black discolourations are prone to appear on the wood, when it comes into contact with iron or iron. Due to its acidic character, chestnut tends to accelerate the corrosion of metals, particularly when moist.



Sycamore

Acer Pseudoplatanus

FSC available

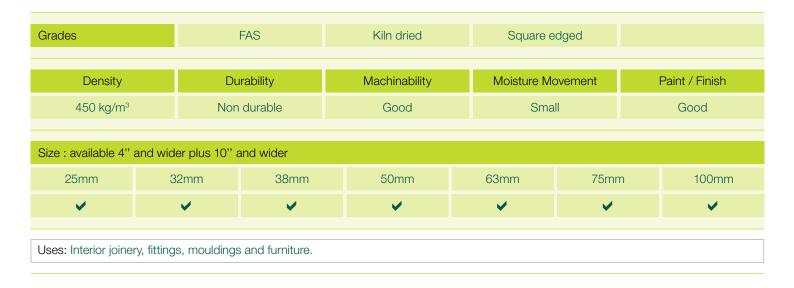
Sycamore is generally straight grained but may be curvy or wavy grained, and the texture is fine it has strength properties similar to that of Oak. There is no difference by colour between sapwood and heartwood, the wood being white, or yellowish -white when freshly cut, with a natural lustre especially noticeable on quarter-sawn surfaces.

ades	K	iln dried	Log sawn				
Density		urability	Machinability	Moisture Mo	ovement	Paint / Finish	
630 kg/m ³	No	n durable	Good	Sma	ll	Good	
ze : available 6" a 25mm	and wider 32mm	38mm	50mm	63mm	75mm	100mm	
	~	~	~	~	 	_	

Tulipwood Liriodendron Tulipifera

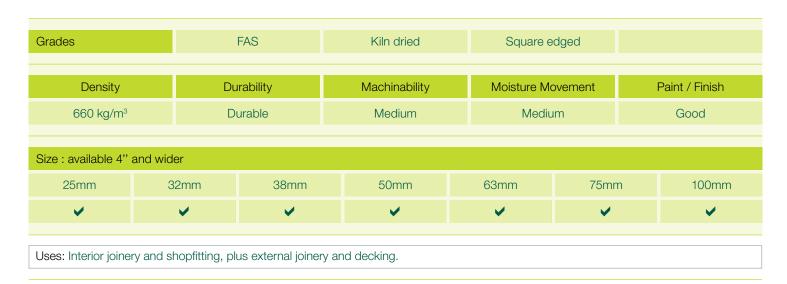
FSC available

An even texture and grain makes this an ideal timber for light construction. The wood is' straight-grained, fine-textured and fairly soft. The sapwood is white, and in second-growth trees, very wide; the heartwood is variable in colour, ranging from olive green to yellow or brown, and may be streaked with steel-blue.



Utile Entandrophragma Utile

A very popular durable hardwood used for high-class joinery. It closely resembles Sapele, both in appearance and properties, but is more open in texture due to the larger pores, and generally lacks the cedar-like odour of Sapele. The interlocked grain produces a broad ribbon-stripe, often wider irregular than that of Sapele. The heartwood and sapwood are distinct; the heartwood is pale pink when initially cut, darkening on exposure to reddish-brown.

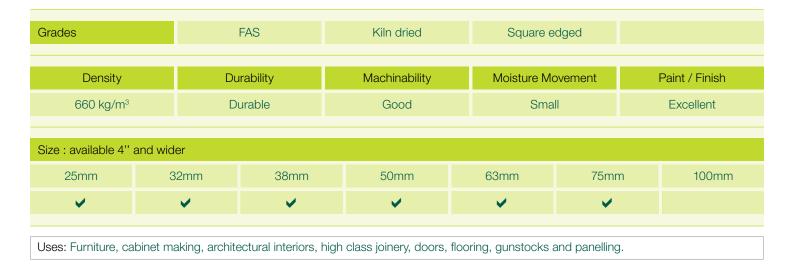


Walnut, American Black

Juglans Nigra

FSC available

Strong and moderately durable, American black walnut is very fashionable for use in furniture, cabinet making, architectural interiors and high class joinery. Walnut is a tough, hard timber of medium density, with moderate bending and crushing strengths and low stiffness. It has a good steam bending classification. It has a creamy white sapwood, while the heartwood is light brown to dark chocolate brown, occasionally with a purplish cast and darker streaks. The wood is generally straight grained, but sometimes with a wavy or curly grain.





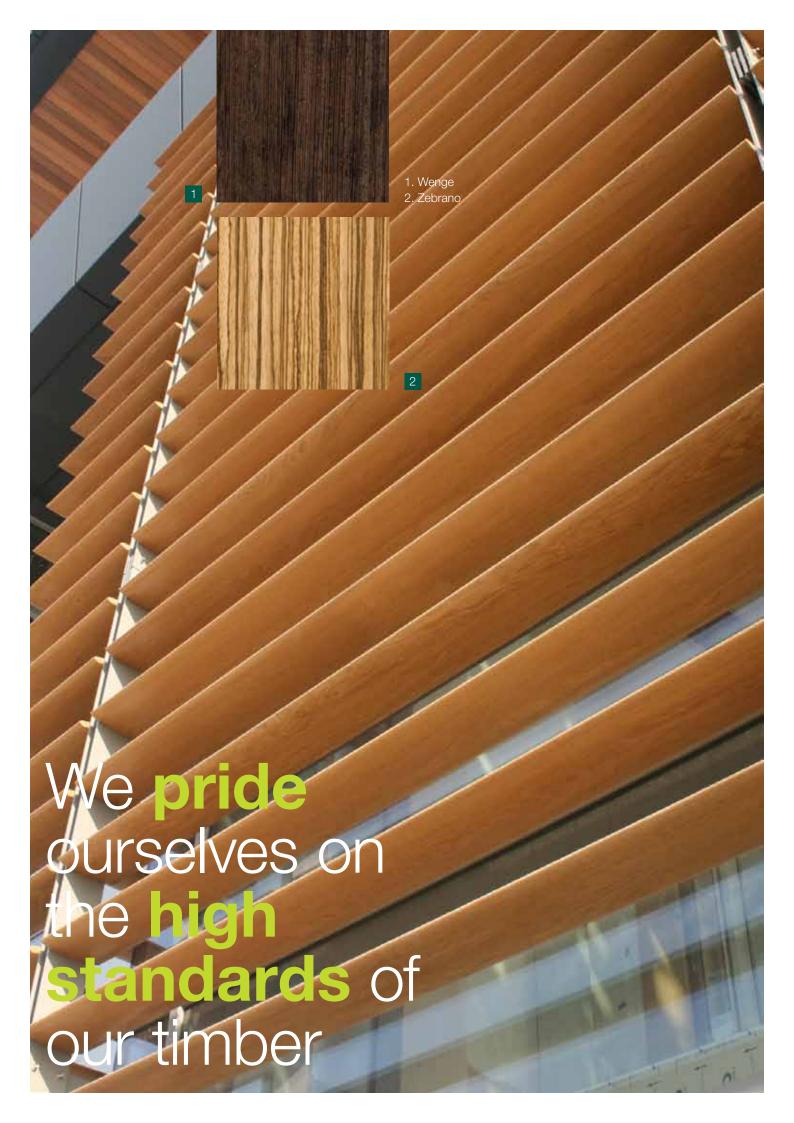
1. Tulipwood

2. Utile

3. Walnut American Black

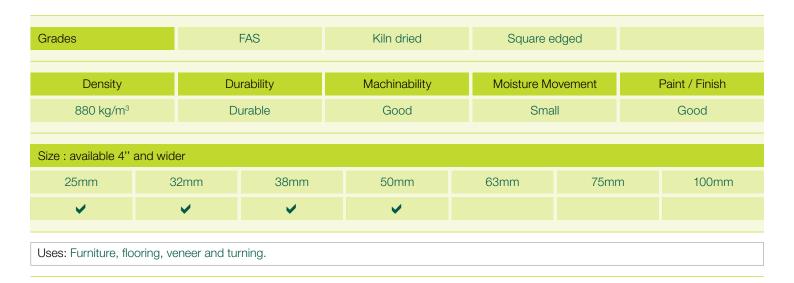


3



Wenge Millettia Laurentii

A durable and easy to work timber with straight grain, it has a rather coarse texture. The sapwood is whitish and the heartwood dark brown with fine, close blackish veining, giving the wood an attractive. Wenge is a very hard and heavy wood.



Zebrano

Microberlinia Brazzavillensis

A hard and heavy timber with a grain that is wavy or interlocked, producing alternating hard and soft grained material. The heartwood is a light yellow / golden with narrow veining or streaks of dark brown to almost black, giving the quartered surfaces a zebra-stripe appearance. Zebrano has a coarse texture and a radiant surface finish.

Durability Non durable	Machinability Good	Moisture M	ovement	Paint / Finish	
Non durable	Good				
	0.0004	Mediu	um	Good	
38mm	50mm	63mm	75mm	100mm	
 	✓				

Innovative Hardwood Products

Composite Decking and Tiles from Dura Composites



Manufactured from polyethylene based resins, reclaimed hardwood, and finished with an attractive hardwearing anti-slip finish. Dura Deck eliminates rot, algae growth, discolouration and significantly reduces the risk of slipping in wet conditions.

Dura Deck and Dura Tile are manufactured from recycled and sustainable materials, yet gives the appearance of traditional hardwood timber.

Deck Range

Maximum nm) Span (mm)
50 600
60 700
60 400

Long Lifespan

Dura Deck has an expected lifespan of 50 years+

Features

- Advanced Below Surface Fixings
- Up to 700mm Span
- Anti-slip Surface
- Low Maintenance

Dura Tile Interlocking Decking Tiles

Featuring the Interlocking system, each tile can be attached to the next in seconds. The tiles can be laid in two directions to create a unique pattern. The Interlocking tile joining system is easy to lay and large areas can be installed quickly.

Features

- Inbuilt connecting tabs for installation
- Raised feet for under tile drainage
- Engineered to support 1 tonne
- UV Stabilised polyethylene
- No fixings required
- Symmetrical design

Uses

- Balconies
- Decks
- Roof terraces
- Patios
- Verandahs
- Landscaping
- Conservatories
- Restaurant terraces
- Swimming pool decking
- Showroom and Exhibition flooring

Colour options

Teak Charcoal





Machining and Bespoke Manufacturing

As the timber experts Arnold Laver has extensive in-house production facilities for the machining and manufacture of both hardwoods and softwoods.

We have modern and well equipped factories located across several of our Depots; allowing us to provide an effective and timely service for a range of manufacturing requirements.

Machining

We are able to machine timber to the exact needs of our customers, usually on a short lead-time; whether it's standard profiles for architrave and skirting, or bespoke components for manufacturing windows and doors.

Cutting

Our range of saws ensures accuracy and flexibility when manufacturing to precise specifications, whilst advanced software helps to provide efficiencies that keep costs under control.

CNC Machining

A Biesse Rover 30 machining centre, together with the latest software, controls the drilling and routing processes for any CNC requirements; delivering accuracy and reliability time after time.

Door servicing

Through our door servicing centres we provide a full design, manufacture and technical support service. We can supply a wide choice of veneers, apertures, glazing and sizes, including fire-rated doors.

Finishing

In 2013 we will be adding a finishing facility that will allow us to offer customers a complete end-to-end service; cutting, machining and applying the spray finish to manufactured timber products.



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Sheffield Mosborough*

Olympic Sawmills Oxclose Park Road North Sheffield, S20 8GN Tel 0114 276 4700 Fax 0114 276 4701 sales@sheffield.laver.co.uk

*Depots with full Chain of Custody status

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