



Design Pine

Innovative Timber Ideas

www.designpine.com



- Superior primer technology
- Sustainable plantation grown timber
- Low embodied energy
- Organic preservation system (H3)
- Easy to work with, it's timber!

the ultimate outdoor timber solution

Advanced manufacturing processes combine the finest quality plantation grown timber, an innovative organic preservation system and a genuine BLUE primer to give Design Pine the edge. These easy to use, ready to paint products are perfect for your next project, no matter if it's a small verandah, cladding a house or creating a dream entertainment area, Design Pine has a profile for you.

Prior to priming, Design Pine is impregnated with an organic preservation system (H3) which increases its durability for all above ground exterior applications. The preservative is designed to prevent the onset of rot and decay as well as protect the timber from insect attack. This innovative preservative contains special waxes and resins which slow the uptake of moisture, making Design Pine a more stable product.

This technology is covered by a limited 25 year durability guarantee*. Design Pine is commonly used in pergolas, carports, verandah, fascia and cladding.

Don't be fooled by imitations, ask for Design Pine by name...

*see separate guarantee document for details.



Design Pine is a range of structural and decorative engineered timber products coated with a genuine primer.

How do I know it's genuine Design Pine?

Every piece of Design Pine is branded with an end tag that specifies a number of important details (as shown below), including the Design Pine logo indicating that you are purchasing the genuine article.



Selecting a paint colour

Always remember that timber is a natural material. The use of a light coloured topcoat is essential. Dark colours absorb light and heat, which can lead to a number of problems including distortion, surface cracking or resin bleed. Major paint manufacturers can advise you on the light reflectance value (LRV) of the colour you have selected – the higher the light

reflectance value the less heat the substrate will absorb and the longer the expected life of the paint finish.

For technical information including span tables visit www.designpine.com



An environmental edge

Sustainable plantation grown radiata pine is used in the manufacture of Design Pine. Trees are a truly renewable resource and have the added benefit of absorbing carbon dioxide (CO₂) and releasing oxygen in the growing process. Therefore trees naturally reduce harmful carbon emissions that contribute to global warming. By using Design Pine it is a simple and affordable way to build a natural sustainable home.

But most importantly, Design Pine helps to produce energy efficient carbon neutral homes.

- Sustainable plantation grown timber
- Trees release oxygen
- Carbon is stored within wood fibre
- Organic preservation system (H3)
- Reduced wood waste through the use of finger joint technology
- Low embodied energy

By harvesting plantation grown forests and replanting, it allows the area of land to absorb a greater volume of carbon (CO₂).

Generally, younger trees absorb more carbon than older trees therefore a plantation regime offers greater benefits to the reduction in green house gases. The harvested trees have stored the carbon in the wood fibre for the life of the timber product.

"Forests act as the 'lungs of the earth' removing the major greenhouse gas (CO₂) from the atmosphere and locking it up in timber products, while at the same time producing life giving oxygen"
W. Lawson 2007

	Timber	Steel	Concrete	Aluminium
Fossil fuel used in production (MJ/m ³)	750	266,000	4,800	1,100,000
Carbon released (kg/m ³)	15	5,320	120	22,000
Carbon stored (kg/m ³)	250	0	0	0

Cladding a house

Timber weatherboards create comfortable homes in summer and warm homes in winter reducing the need for artificial heating and cooling due to the excellent thermal insulation offered by timber.

The installation of Design Pine weatherboards is quick and easy as the genuine primer is ready to paint. The spacing rebates on each board provide accurate installation and the long lengths (up to 7.2m) are convenient to

use. Light weight weatherboards offer speedy installation times as they can be handled on site easily. (Installation instructions are available from www.designpine.com)

The Design Pine family of quality products gives the home owner confidence in their cladding selection. The time proven methods of manufacture involved in Design Pine stands out against other cladding options. Design Pine weatherboards give any home a beautiful natural feel.



Weight comparison for cladding systems

A weight comparison on an 80m² upper storey extension shows Design Pine Cladding to be up to 1100kg lighter than alternate

cladding. This may in turn reduce support structure costs as the volume of bracing and size of members may be able to be reduced.

Cladding	Coverage	Max length (m)	Kg/m	Kg/m ²	Extension cladding weight Kg (80m ²)
185mm Design Pine Classic	165	7.2	1.3	8.0	634
138mm Design Pine Classic	118	7.2	1.0	8.4	666
180mm fibre cement	150	4.2	3.4	23.2	1797
150mm fibre cement	120	4.2	2.8	22.7	1850
Compressed timber sheet		3.66		9.4	745
Steel sheets 0.48				4.9	391

(Extension Details: Floor area: 80m², floor size 8x10, window area 7.2m², wall height 2.4m)

Thermal properties

The table below demonstrates the thermal performance of timber weather boards versus clay brick, simply the higher the value the better.

Cladding system	Heat in (R value)			Heat out (R value)		
	Low	Medium	High	Low	Medium	High
Timber frames (70mm), Timber Weatherboard , R2.0 bulk Insulation	2.6	2.6	2.7	2.6	2.7	2.7
Timber frames (90mm), Timber Weatherboard , R2.0 bulk Insulation	2.7	2.7	2.8	2.7	2.7	2.8
Timber frames (70mm), Clay Brick (110mm), R2.0 bulk Insulation	2.2	2.3	2.3	2.4	2.4	2.5
Timber frames (90mm), Clay Brick (110mm), R2.0 bulk Insulation	2.3	2.3	2.4	2.5	2.5	2.6

Location	Heat IN	Heat OUT
Sydney, Brisbane, Adelaide	Low	Medium
Melbourne, Hobart	Low	Low
Perth	Medium	Medium
Darwin	Medium	High

Reference: 'R-values for timber framed building elements' – FWPRDC 2002

Design versatility

The versatility of Design Pine is endless due to the extensive range of products. Plans can be drawn to create a simple carport or an elaborate pergola. All structural products are engineered to withstand exposure to sun and rain in the toughest of situations giving confidence to the homeowner. Structural products have long, straight spans, whilst the decorative range has the potential to create elegant shadows to finish a home with style.

A beautiful smooth finish is the result from the quality manufacturing processes. This finish is perfect to apply a quality exterior paint directly over the revolutionary Blue primer. The pre-applied primer is very robust providing you with good UV resistance to offer exceptional durability on site.

Design Pine has the added benefit of all visible natural defects (knots, pith) being removed reducing the risk of dimensional instability and resin bleed leaving the home looking immaculate for years to come.

An organic preservation system (H3) and durable adhesives (Service Class 3) are used to ensure the integrity of each board in harsh Australian conditions.

'One of the best ways to address climate change is to use more wood, not less.'

Dr Patrick Moore. Forest management: part of the climate change solution. California forests. 2006.



Span table software is available at www.designpine.com

Download your copy today.



Easy installation

When installing Design Pine products, follow the steps below to create a hassle free project.

Step 1

Cut & notch as required to fit the desired application, off cuts and waste are non hazardous for disposal

Step 2

Apply a preservative sealer to all cuts such as Enseal or equivalent.

Step 3

Remove any dirt, dust etc, spot prime cut ends and notches with Design Pine primer or quality oil based primer.

Step 4

Fix in place, Design Pine is non-corrosive to hot dipped galvanised fasteners. Design Pine should not be in contact with the ground.

Step 5

Apply two coats of quality exterior paint to finish the structure within 12 weeks of installation for optimum results. A light colour is essential.

Step 6

Sit back, relax and enjoy

Storage

Design Pine should be kept as dry as possible in a covered, well ventilated area.

Blocking

When using Design Pine as rafters and a single span exceeds 2500mm it will require blocking at 1200mm intervals.



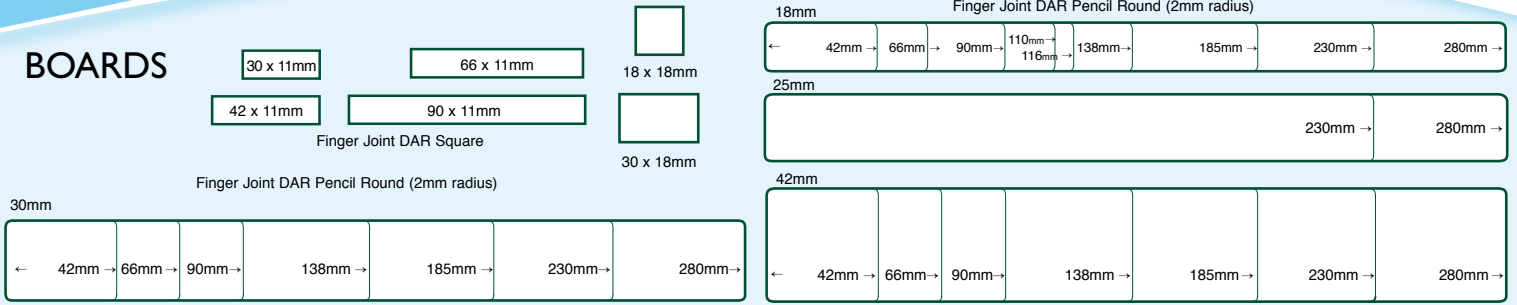
for step 2



for step 3



BOARDS

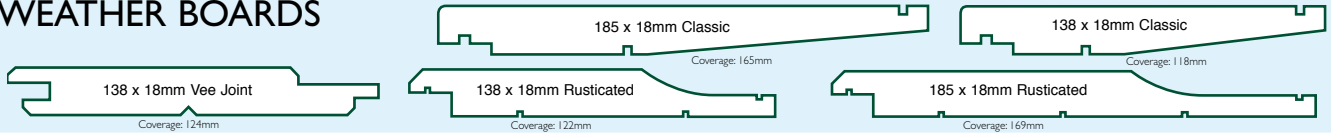


BEAMS & POSTS

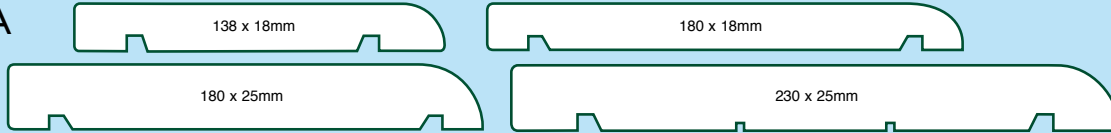
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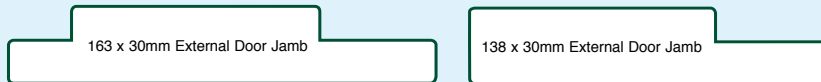
WEATHER BOARDS



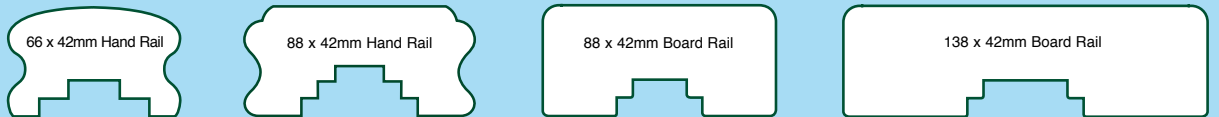
FASCIA



DOOR JAMBS



HANDRAILS



BOTTOM RAILS



MOULDINGS

