Design Pine™

Innovative Timber Ideas

www.designpine.com.au

structural and decorative engineered timber coated with a genuine primer

Design Pine
Innovative Timber Ideas
www.designpine.com.au

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.

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

185 x 18 Classic Weatherboards

These easy to use, ready to paint products are perfect for your next project. Whether 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.

25 YEAR LIMITED GUARANTEE

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

Timber is a natural material which is effected by temperature and moisture. Therefore the selection of correct top coat colour is essential for the long term performance of the Design Pine product and the paint system. Light colours with a light reflective value (LRV) of >30% are recommended as dark colours absorb light and heat. An elevated temperature build up in Design Pine can lead to a number of problems including distortion, surface cracking or resin bleed. Major paint manufacturers can advise the 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.
A colour guide with information on LRV and cool colours can be found on www.designpine.com

Posts, beams and rafters

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 (CO_2) 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.

- 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 (CO_2).
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.

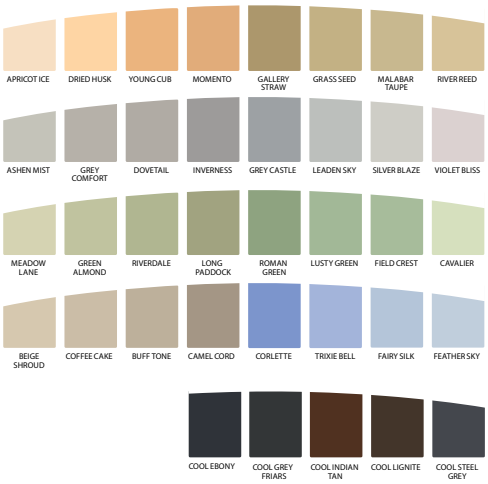
"Forests act as the 'lungs of the earth' removing the major greenhouse gas (CO_2) from the atmosphere and locking it up in timber products, while at the same time producing life giving oxygen" W. Lawson 2007

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

Ask about our FSC® availability across the Design Pine range.

FSC
www.fsc.org
FSC® C109057
The mark of responsible forestry

	Timber	Steel	Concrete	Aluminium
Fossil fuel used in production (MJ/m3)	750	266,00	4,800	1,100,000
Carbon released (kg/m3)	15	5,320	120	22,000
Carbon stored (kg/m3)	250	0	0	0



138 x 11 Vee joint eaves lining

SUSTAINABLE TIMBER PRODUCTS

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

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				4.9	391

(Extension Details: Floor area: 80m$_2$, floor size 8x10, window area 7.2m$_2$, 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	Heat in (R Value)			Heat out (R Value)		
	Low	Medium	High	Low	Medium	High
Timber frames (70mm), **Timber Weatherboard**, R2.0 bulk Insulation	2.7	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.

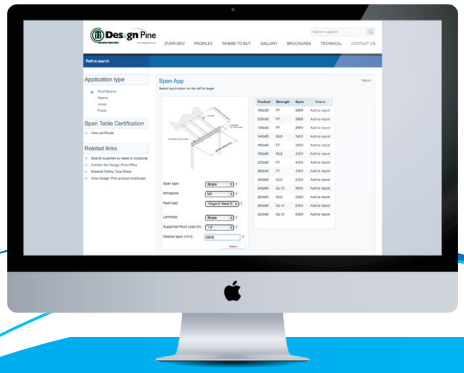
An organic preservation system (H3) and durable adhesives (Service Class 3) are used to ensure the integrity of each board in harsh Australian conditions.

'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 tables online

Span tables are available online using your computer or smartphone at www.designpine.com.au



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 noncorrosive 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.

Wire Balustrading

Design Pine is NOT suited for wire balustrading where the wire goes through the post.

for step 2

for step 3

Posts and beams

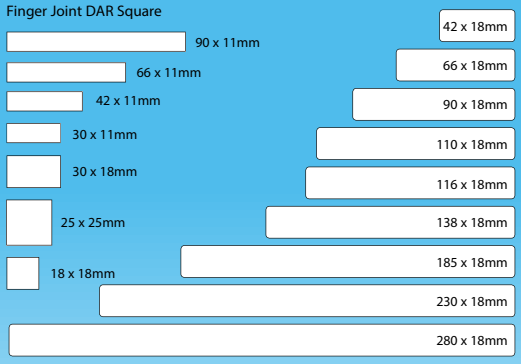
1. Launch QR scanner (download free from App store if needed)
2. Scan code
3. Find out more about Design Pine.

ENGINEERED TIMBER PRODUCTS F7&GL8

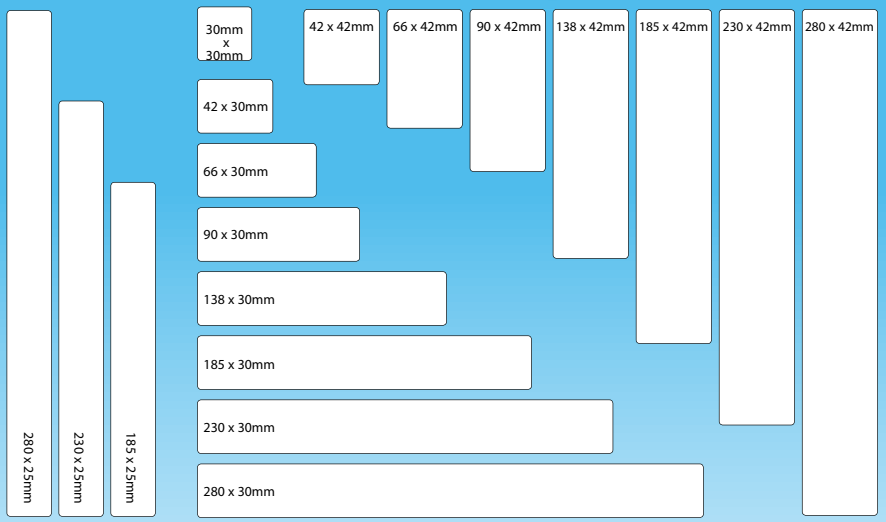
Design Pine™
Innovative Timber Ideas
www.designpine.com.au

BOARDS

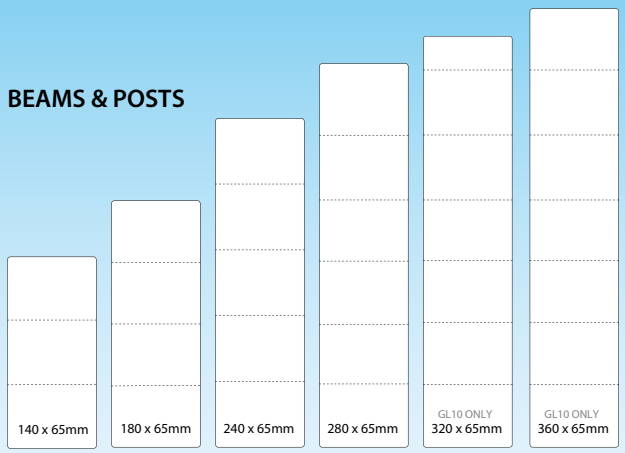
Finger Joint DAR Square



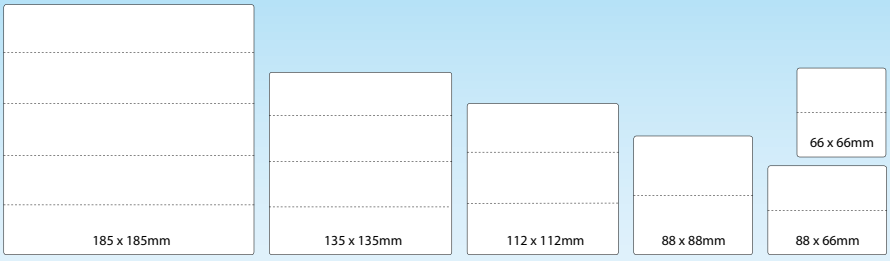
Finger Joint DAR Pencil Round (2mm radius)



BEAMS & POSTS

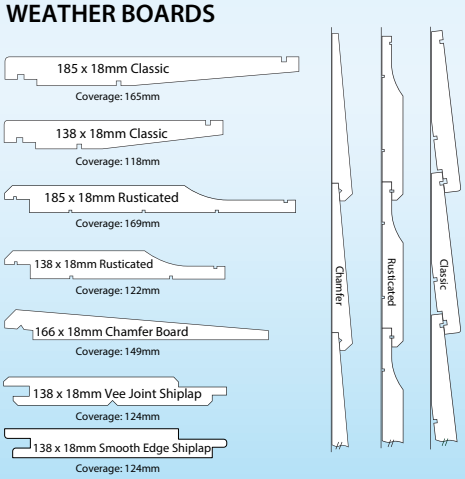


Beams: Finger jointed laminated GL8 and GL10

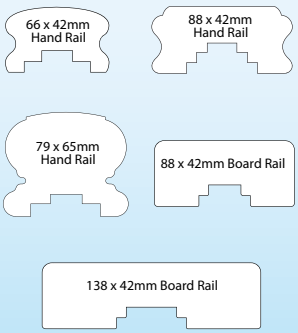


Posts: Finger joint laminated GL8

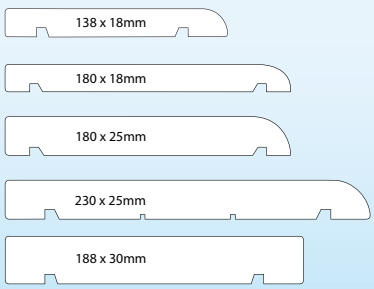
WEATHER BOARDS



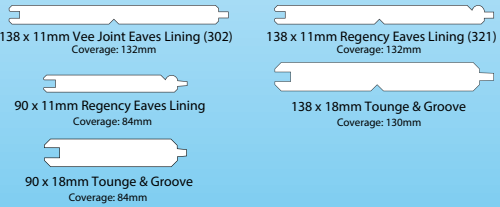
HANDRAILS



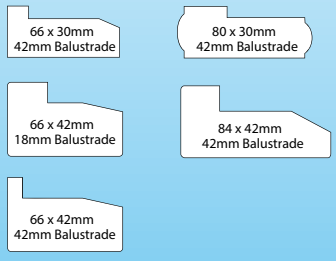
FASCIA



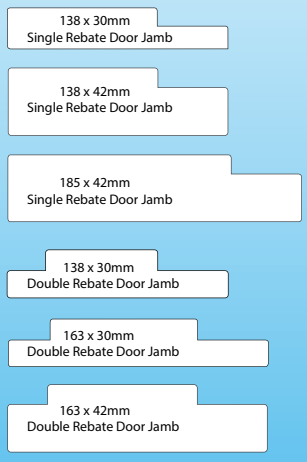
LINING BOARDS



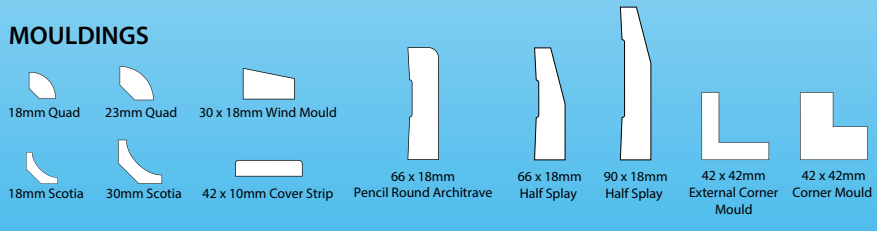
BOTTOM RAILS



DOOR JAMBS



MOULDINGS



Download profiles at www.designpine.com.au