

VULCAN

THERMALLY MODIFIED TIMBER
STABLE. BEAUTIFUL. NATURAL.





Vulcan Carefully Crafted Timber

Vulcan+ is innovatively engineered from clear, thermally modified plantation timber to bring about sustainability, style and durability. Because of these exceptional qualities this new age timber has a multitude of applications including the below but only limited by your imagination:

- External wall cladding (the Hector series)
- Internal wall and ceiling lining (the Victor the Tango and the Echo)
- Fins, battens and screening
- Doors and other joinery products
- Pergola beams and posts

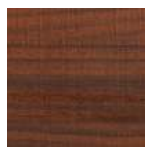
Colour Range



Ebony



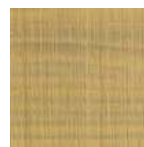
Graphite



Manuka



Patina



Straw



Teak



Walnut



Sioux- Weathered

The TMT Process

The process



Before kiln drying

Water and other extractives are contained within the cell walls.

After kiln drying

Only a small fraction of water is left, cell walls shrink.



After thermal modification

The cell walls collapse and are fused, all remaining water is removed and cannot be reabsorbed.



Phase 1:

The kiln is slowly elevated in temperature until the moisture content of the wood is essentially zero %. The wood in the kiln is then heated further until it reaches the desired modification temperature – in most cases 220° Celsius for outdoor end use applications.



Phase 2:

The Kiln is held at the modification temperature for a prescribed time to achieve full modification. This time is the critical point in the process.



Phase 3:

The Kiln temperature is lowered and the wood is reconditioned with steam (we bring the moisture content back to around 7%). Once cool enough the wood can be extracted from the kiln.

The results are timber that's



Stable

Movement is reduced by up to 90% as compared to other species.



Eco Friendly

Contains no environmental hazards and sourced from New Zealand's renewable plantations.



Durability

Increases the durability of softwoods by removing all extractives.



Beautiful Colour

The sugar content caramelises, creating a dark brown colour.



Guaranteed

to withstand the harshest conditions.



Improves thermal insulation properties.



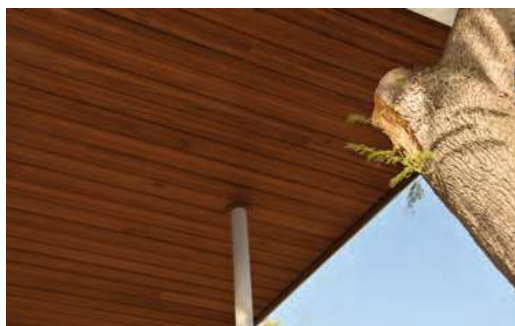
Features and Benefits

- Moisture content reduced to 7%
 - Less shrinking and swelling by 50%
 - Incredibly durable and dimensionally stable with thermal modification and patented vertical grain configuration
 - High quality near clear grade
 - Beautiful warm colour tone similar to Spotted Gum and Walnut
 - Can be lightly bandsawn for a textured finish or dressed smooth
 - Built to last – Durability class 1 (above ground), H3 treated, rot and pest resistant
 - Lightweight and easy to work with
 - Green product of choice sourced from FSC® mix certified New Zealand plantation forests, carbon negative, and with low toxicity
 - 25 year limited warranty for peace of mind
-

Further product information and downloads for Vulcan are available at austim.com.au

- Installation instructions
- Technical information
- Care and maintenance recommendations
- CAD files
- Other products in the Vulcan range
- Project gallery

Keep an eye out for unique new Vulcan products currently under development to compliment our existing range!



The Vulcan Story

This special product all started from a desire to produce high performance architectural and structural timbers. As designed by nature to be beautiful, durable and sustainable whilst looking for an alternative to what has long been considered normal. This ideal continues with future product extension and development.

With Tomorrow in Mind

Vulcan products are crafted to be enjoyed for years to come. Designed to age with grace, our timbers have exceptional weatherability and maintain their durability and beauty for a lifetime. With tomorrow in mind timber is harvested from sustainable plantation forests to meet today's needs without disadvantaging future generations. The idea being the tree milled will provide more than 30 years of service, which is as long as it takes to grow a replacement tree.



Design by Nature

For many decades craftsmen all over the world have sought out vertical grain (also known as quartersawn) timber for its desirable characteristics of stability and reliability in performance. With the unique patented manufacturing processes used to create Vulcan these attributes are re-created on every board, thus providing ultimate performance in final application. Whether coloured or allowed to silver with time, Vulcan timbers will maintain their beauty for years to come.



Built to Last

By working closely with architects, designers and builders using Vulcan we can help create functional and beautifully designed and well detailed structures that will blend harmoniously with nature's surroundings for years to come.



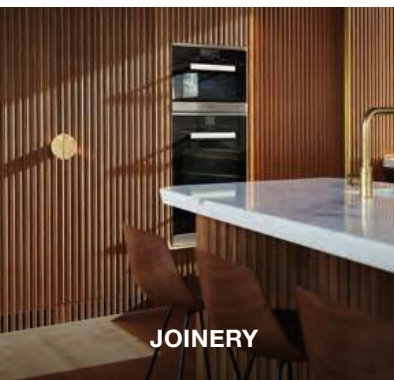
Ultimate Outcome

Vulcan timber helps create beautiful spaces for people to live and work, safely and sustainably. With simple yearly maintenance, their beauty evolves slowly with time and can be enjoyed for decades.

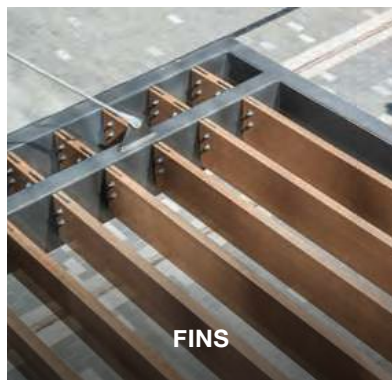




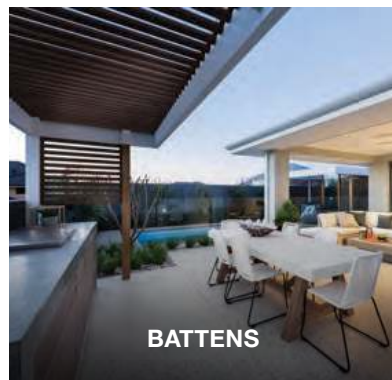
LINING



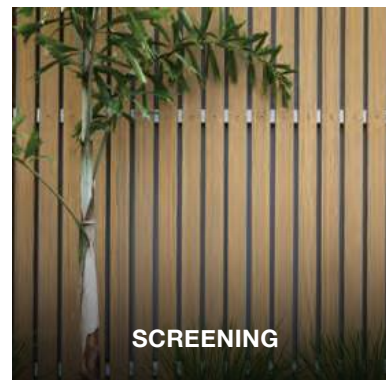
JOINERY



FINS



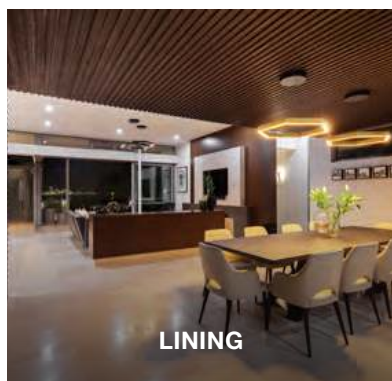
BATTENS



SCREENING



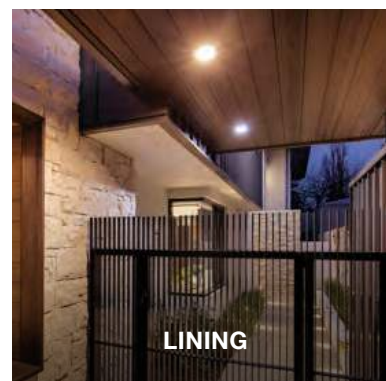
CLADDING



LINING



BATTENS



LINING

Stable. Beautiful. Natural. Thermally Modified Timber.

CLADDING | LINING | FINS | BATTENS | SCREENING | JOINERY | POSTS | BEAMS | DECKING

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