

ELEMENTS VULCAN+ THERMALLY STABILISED TIMBER



Elements Vulcan+ natural unstained

Engineered with patented vertical grain construction

Retains natural attractive detail

Elements Vulcan+ is FSC® Certified - Internationally recognised as being sourced from responsibly managed & sustainable forests

Naturally durable, naturally stable, locally grown

Free from chemical preservatives

ELEMENTS VULCAN+ EXTERIOR TIMBER DOORS

Have you experienced bowing or cracking timber doors?

Try the new Vulcan+

A high performance alternative to Western Red Cedar.

Thermally modified wood products have grown in popularity around the world, since the technology was first commercialised in Europe during the 1990's. Thermowood, originating from Finland, is now probably the most recognised brand. Thermal modification dramatically increases the durability and stability of wood. Aesthetically the timber takes on a deep chocolate brown colouration that's sure to please even the most discerning wood lover! This effectively creates a new sustainable, environmentally friendly timber species.



Brought to you using a unique process:



1. Sustainable sapwood plantations are milled



2. Natural logs are quarter sawn. It is renowned that quarter sawn timber is the best, because it produces straight-grain (as opposed to wavy) and avoids knots, decreasing movement and ensuring drying happens at an even rate through the boards.



3. Timber is dried and processed using carbon neutral heat from wood waste. Thermal modification is achieved simply by using steam and high temperatures in excess of 200 degrees celsius. The real trick to the process however is in the cooling and reconditioning phase. This is achieved by using purpose-built computer-controlled kilns that ensure every stick of timber is modified to the correct specification and quality. At the end of the process the timber is around 7% moisture content and the chemical and physical properties have been permanently changed. The resulting product has a reduced equilibrium moisture content with excellent stability and approximately 50% less swelling and shrinkage.

• **Density:** 420-450 kg/m³ • **Hardness:** Medium-Low (3.5kN Janka)

• **Thermal Properties** ~0.099 W/ (mK) (Thermal conductivity is reduced by 20-25% compared with radiata pine).

• **Compatibility** - Vulcan has little or no corrosiveness on metals (equivalent to untreated softwood) and can be placed in contact with most building materials Normal PVA, PU, MUF glues and RF resins can be used.

Vulcan+ is available in any Parkwood timber door design. See Parkwood's Wanaka brochure or visit:

www.parkwooddoors.co.nz for many more door styles.

Vulcan+ is available from Parkwood in 'raw' form, to be made into any kind of timber joinery.

Parkwood are exclusive suppliers of ELEMENTS VULCAN+ in the New Zealand joinery market.