

The logo for Knot Wood is a horizontal bar divided into two sections. The left section has a brushed metal texture and contains the word "KNOT" in a bold, orange, serif font. The right section has a wood grain texture and contains the word "WOOD" in a bold, silver, serif font.

KNOT WOOD

IT'S NOT WOOD - IT'S ALUMINIUM





Many are surprised to know that the product is aluminium and not wood.

– Hillary Guader



ARCHITECTS
LANDSCAPING
RENOVATING
BUILDERS



KNOTWOOD are the global leaders in modular aluminium products. We aim for simple installation, aesthetically pleasing finishes, high durability and low maintenance. Knotwood provide solutions for residential, commercial & industrial buildings.

Knotwood is designed, engineered and tested for strength and durability. We can guarantee that Knotwood's high quality will last for years to come because we have close control over the extrusion, powder coating and sublimation; all of which are produced in Australia. Knotwood is an Australian owned company employing Australians. By supporting Knotwood, you support Australian families.



Knotwood Colours

All Knotwood colours have been tested to withstand the most extreme environments providing a durable alternative to timber that can be used in many applications such as fences, screens, gates, windows, doors, louvres, slats, shutters, outdoor furniture and more. Knotwood boasts the low maintenance and high durability qualities of aluminium, while maintaining the natural beauty and warm textured feel of timber.

Please note: These colours are a guide only. Contact our office on 1300 KNOTWOOD for samples. Please be aware that Knotwood contains natural colour variation consistent with that of real timber.



ASH



BUSH CHERRY



CHESTNUT



HICKORY



IROKO



IRON BARK



KNOTTY PINE



RED GUM



ROSE MAHOGANY



SYDNEY BLUE GUM



TASSIE OAK



ASPEN



ATLANTIC CEDAR



AUSTRALIAN CEDAR



BLACK WALNUT



BLACKBUTT



JARRAH



KWILA



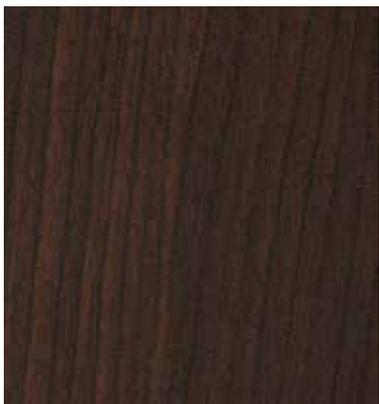
LIGHT OAK



MAPLE



MERBAU



TEAK BROWN



TIGER WOOD



WENGE



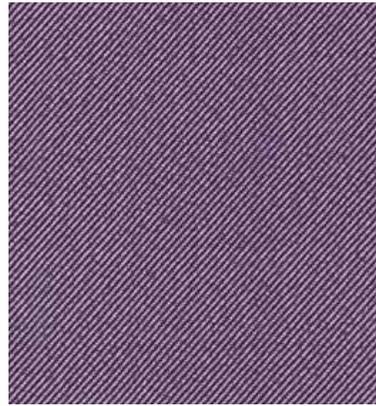
WESTERN RED CEDAR



ZEBRANO

More than wood...

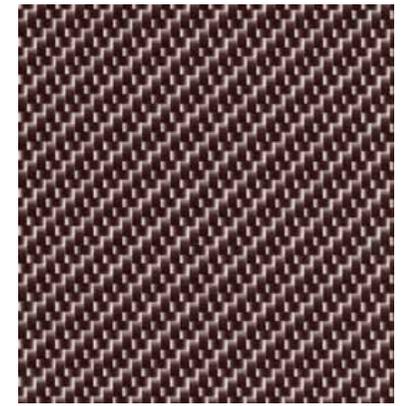
Knotwood's sublimation technology allows us to replicate any image onto aluminium. Have a look at some of our designs.



FABRIC



PATTERN



CARBON FIBRE



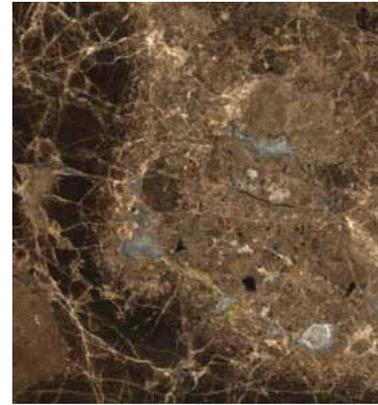
PATTERN



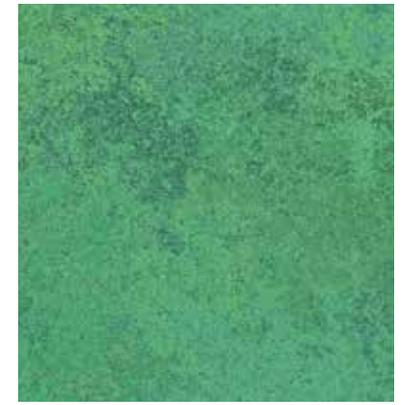
JEANS



WATER



MARBLE



COPPER PATINA



LEAVES



STONE



FABRIC



ANIMAL PRINT



ANIMAL PRINT



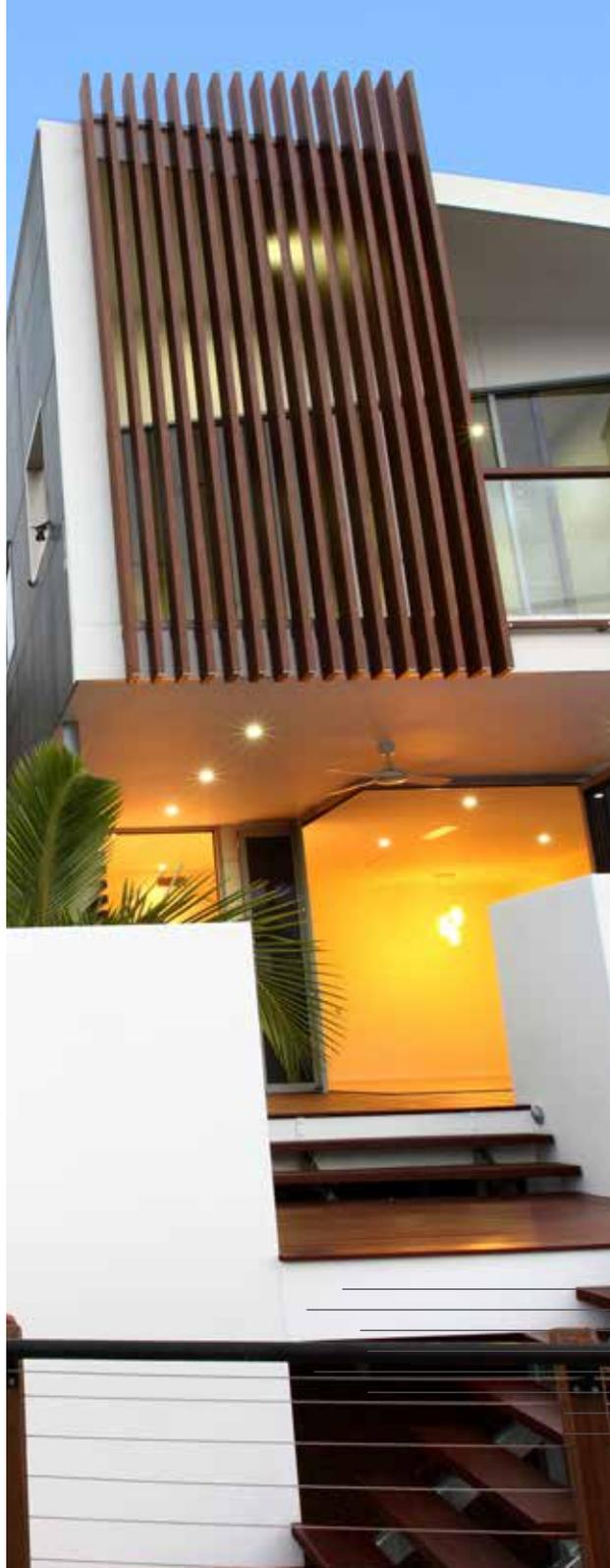
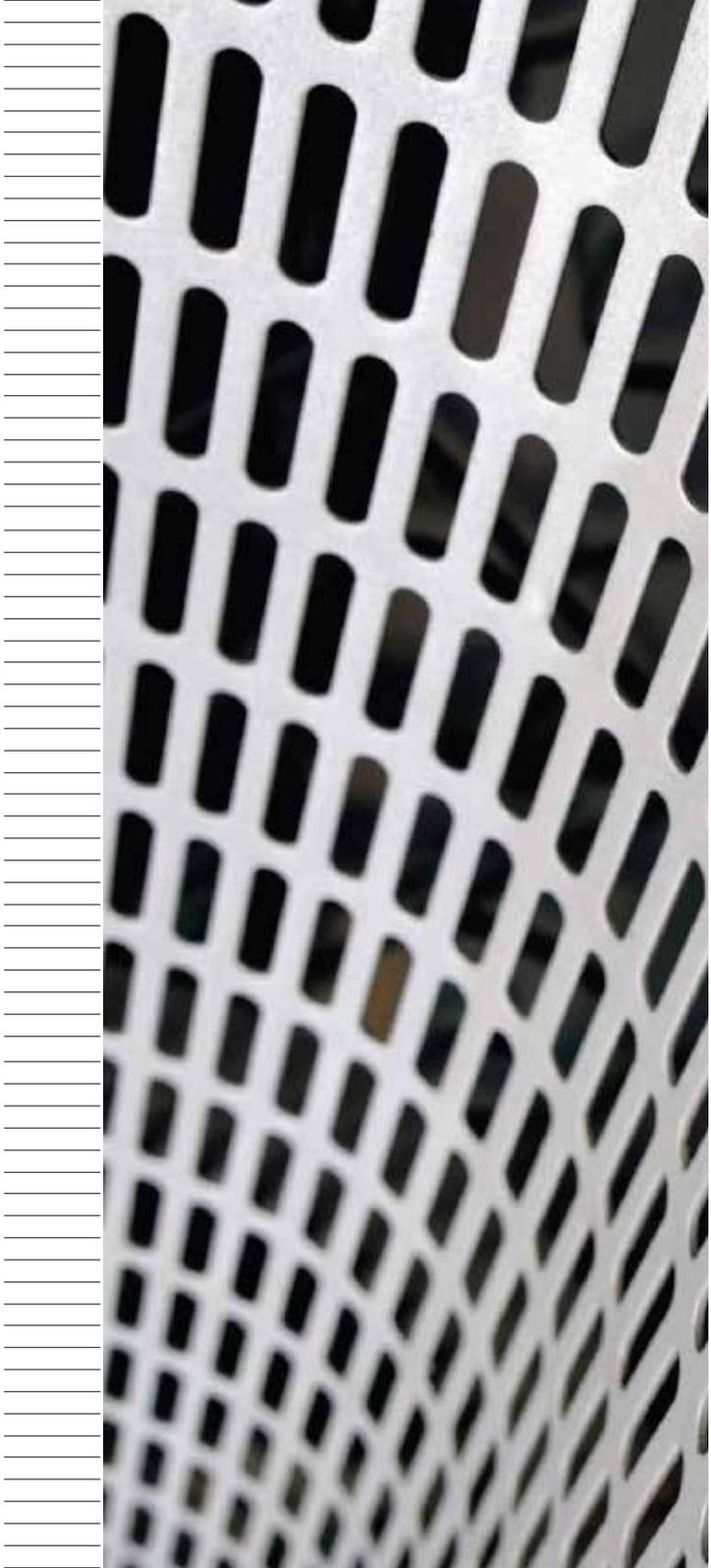
Anti Graffiti

An unfortunate symptom of modern society is that many items placed in an urban environment are often mistreated.

City councils, train companies and building owners want a coating that looks great for long periods. These paints need a high chemical resistance and must be easy to clean and maintain throughout the items lifecycle. So, we have developed the Knotwood Anti Graffiti finish.

The Knotwood Anti-Graffiti finish is a series of polyurethane based powder coatings designed for the exterior environment. The coating is designed to have an extremely hard surface which is resistant to stains and chemical attack.

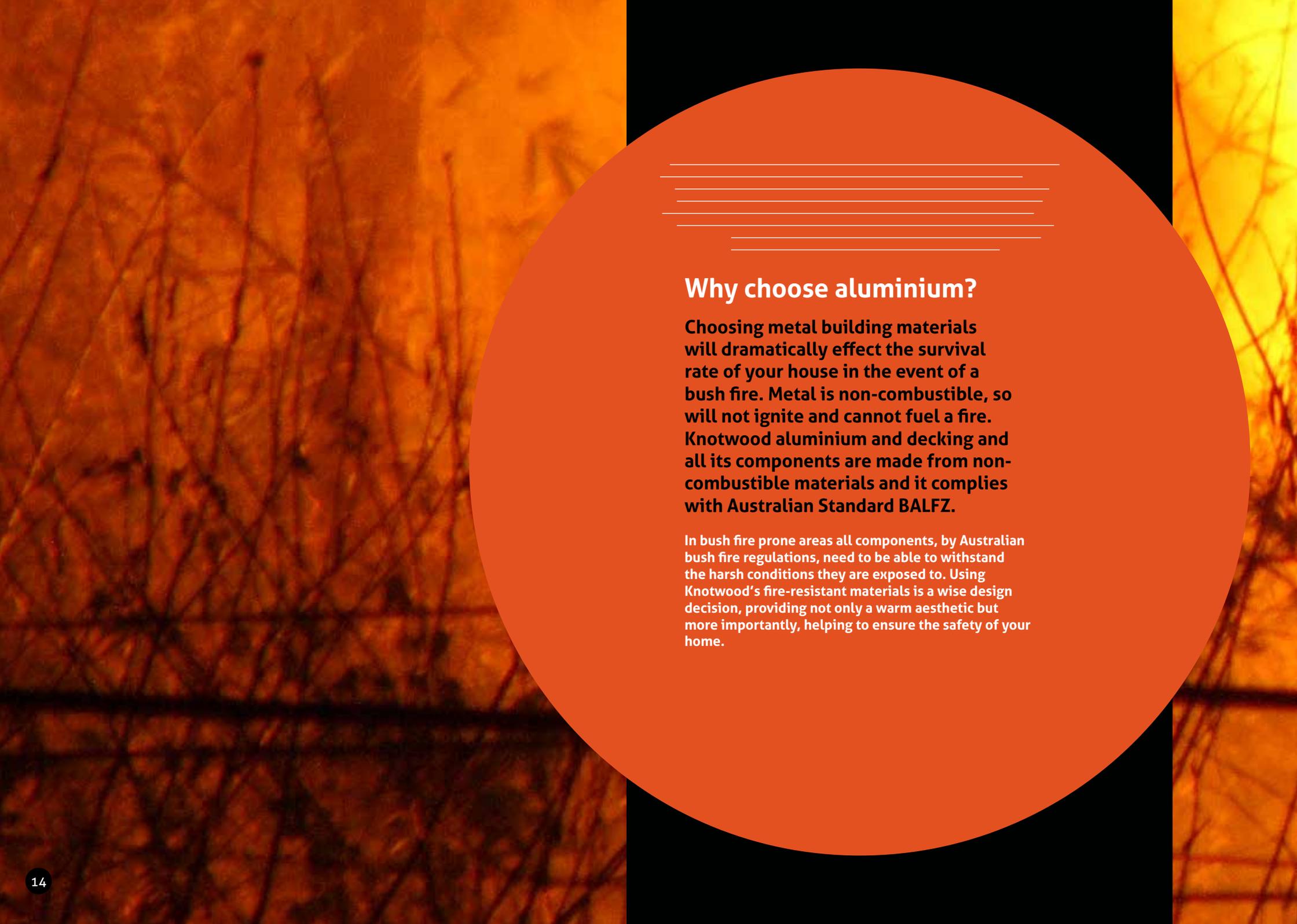
The coating has exceptionally high gloss and flow making it ideal for applications where a high level of aesthetic finish is required.



Benefits of aluminium

Innovation drives our world. New developments and technologies spur a constant search for new and improved materials to satisfy the limits of our imagination, yet few to date have surpassed the sheer versatility of aluminium.

- Aluminium is corrosion resistant, strong, lightweight and long lasting. It is a metal which may be cast, rolled, drawn or extruded and may be finished by polishing, anodising or coating to achieve a myriad of visual and functional effects. Consider its abundance, affordability, corrosion resistance and adaptability and you begin to appreciate how truly remarkable aluminium is compared to other metals. Most importantly, being readily recyclable and with one of the highest recycling rates of any metal, aluminium is an environmentally sustainable material.



Why choose aluminium?

Choosing metal building materials will dramatically effect the survival rate of your house in the event of a bush fire. Metal is non-combustible, so will not ignite and cannot fuel a fire. Knotwood aluminium and decking and all its components are made from non-combustible materials and it complies with Australian Standard BALFZ.

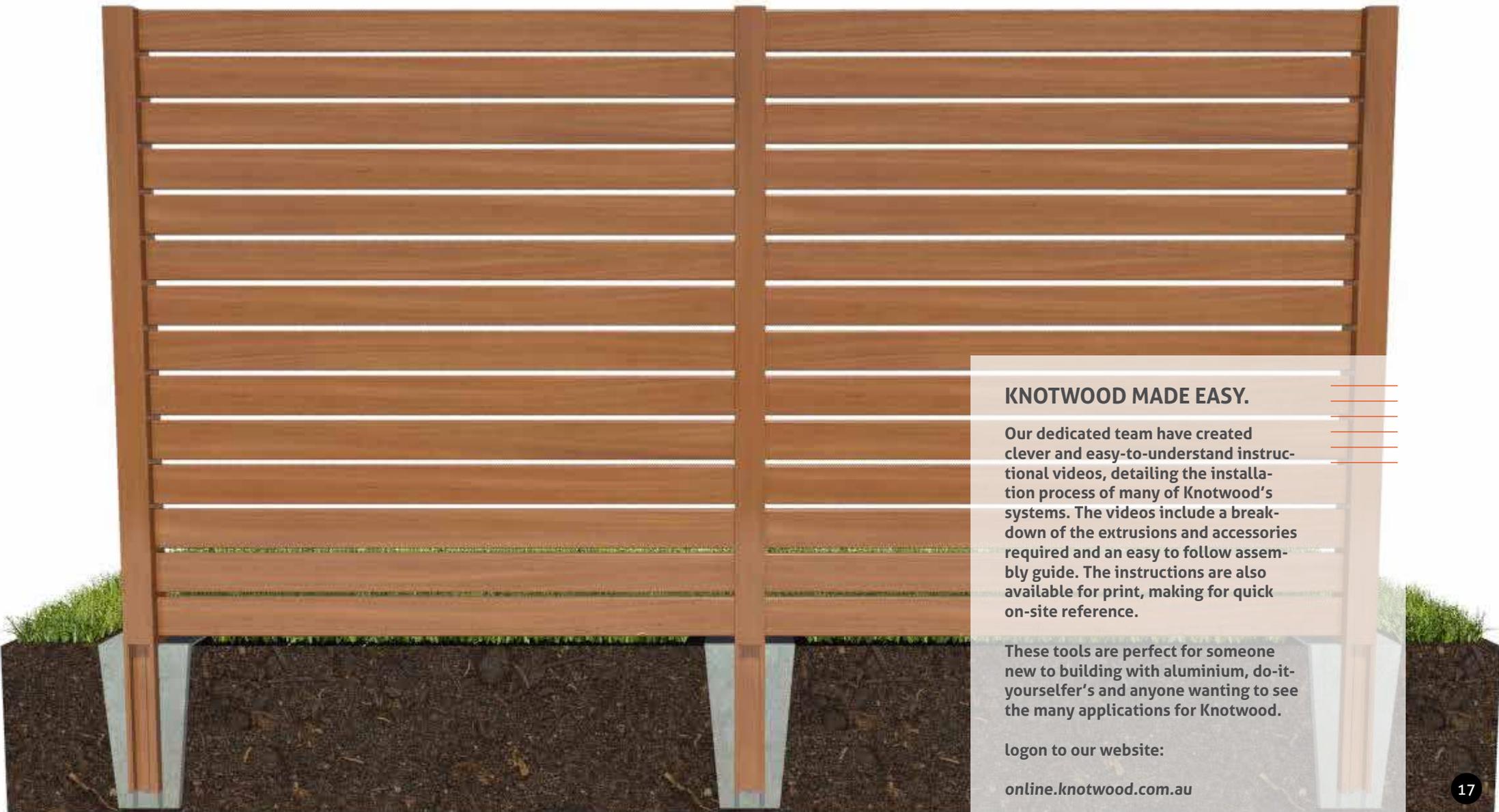
In bush fire prone areas all components, by Australian bush fire regulations, need to be able to withstand the harsh conditions they are exposed to. Using Knotwood's fire-resistant materials is a wise design decision, providing not only a warm aesthetic but more importantly, helping to ensure the safety of your home.



Knotwood Online

We strive to make using Knotwood products as easy, efficient and simple as possible. To this end we have developed innovative online solutions; making it much easier to quote, install and use Knotwood products. Knotwood online has been specifically designed to give our customers the tools they need to plan, organize and sell Knotwood from their own connected device. Knotwood online is also available on tablet and smart-phones, making it even easier to access the full range of tools at your disposal.





KNOTWOOD MADE EASY.

Our dedicated team have created clever and easy-to-understand instructional videos, detailing the installation process of many of Knotwood's systems. The videos include a breakdown of the extrusions and accessories required and an easy to follow assembly guide. The instructions are also available for print, making for quick on-site reference.

These tools are perfect for someone new to building with aluminium, do-it-yourselfers and anyone wanting to see the many applications for Knotwood.

logon to our website:

online.knotwood.com.au

the knotwood

process



1. Extruding

In the extrusion of aluminium, long billets are cut to manageable lengths, heated to 400 °C to 500 °C then fed into the container heater of the extruder. The billet is then pushed through the die by hydraulic force to form the extruded shape.

The extruded profile is tensed with a pulling mechanism and cooled in transit from the runout table. Flexure, torsion and other irregularities generated in extrusion and cooling are removed in this process.

The length of the extrusion at this stage is about 20 to 40 metres. It is then cut into shorter lengths as required.

2. Pre Treatment

To obtain the perfect finish, you must first obtain the perfect surface to coat. The process of media blasting, chemical cleaning and mechanical cleaning is a great start in removing old coatings, corrosion and ingrained impurities. These processes also enhance adhesion by 'keying' the surface.

The multiple stage chemical pre-treatments involve submersing the aluminium in acid to remove the natural, oxidised coating allowing for a protective coating such as chromate (AlumiGold) or other chrome free equivalents (AlumiClear) prior to powder coating.



3. Powder Coating

The next stage in Knotwood's™ process involves powder coating. Electrostatic guns are used to make 80-120µ (microns) powder paint layer. Polymerization is performed afterwards by heating the profiles to 220 degree Celsius for 30 minutes. The base coat that is applied is very durable and scratch resistant.

This coat also serves as protection of the aluminum from external factors such as abrasion, corrosion, weather, humidity and UV damage.

4. Sublimation

The final stage is all about decorating the powder coated aluminum. The Knotwood™ wood grain film needs to cover the entire aluminium profile, the profile is then set on the conveyor system. We then use a vacuum suction system to remove the air from the film bags.

The conveyor then inserts the aluminum profile into an oven to make changes to the ink pigments, which will be converted from solid to gas then back to solid again resulting in a perfect thermo print. Knotwood ships with the film intact for better transport.

5. Construction

Knotwood's aluminium products are where your only limitation is your imagination.

All Knotwood systems have been created with a complete range of accessories to compliment your project.





green policy

As concerns over global warming and the sustainability of our planet grow, environmentally friendly building products have never been more important.

Knotwood products boast a long life cycle, and high recyclability. Compared to timber and PVC, aluminium has a minimal impact on the environment, responsible mining practices and low greenhouse gas emissions make aluminium one of the most environmentally sustainable metals today.

Aluminium is well known for its recyclability, boasting one of the highest recycling rates of any metal. The recycling of aluminium requires only 5% of the initial energy consumed to create it. Recycling one tonne of aluminium saves 5 tonnes of bauxite and 15,000 kilowatt hours of electricity.



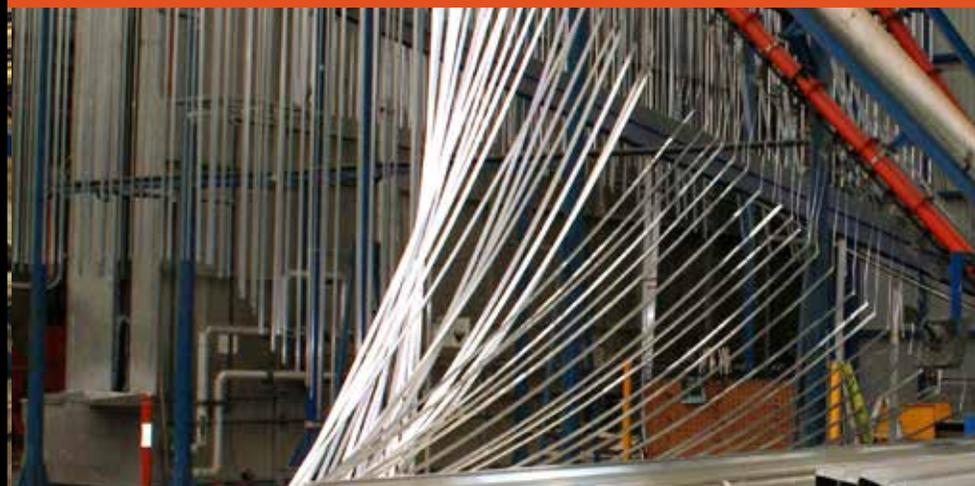


“The benefit is the peace of mind that it will look good for years to come.”

– John & Caroline Hall



Warranty





We've got quality covered

All our architectural finishes meet both the global AAMA standards and Australian AS3715 standard.

Knotwood's finishes adheres to strict product standards, Exceeding American Architectural Manufacturers Association standards AAMA2604-05, AS3715, Australian Metal Finishing Standard AS3715, Qualideco and Qualicoat approved.

Knotwood coatings are specially designed for the architectural and construction industry, and have been proven over a 20 year lifespan. This product is based upon high performance TGIC-free polyester technology, and has proven to give outstanding exterior durability on buildings around the world. They are ideal for all buildings where optimum architectural, aesthetic, technical and economic performance is required.

Backed by an extended exterior guarantee: 20 years Film Integrity and 15 years Colour – covering the key aspects of coating performance such as colour and gloss stability, cracking, checking and chalking.

*conditions apply

WHY IS EVERY KNOTWOOD COLOUR GREEN?

Our industry leading powder coatings are VOC free, recyclable during application and have been produced as part of a sustainable manufacturing process. What's more, our powder coatings are proven as more eco-efficient than many alternative coating products.



Finishing





Finishing

Knotwood wood grain powder coating on aluminium is a minimal maintenance solution for residential, hospitality, commercial and government projects.

Knotwood is easy to clean and maintain, certainly much easier than timber as it never requires painting or staining. Knotwood™ is a durable, marine grade powder coating able to withstand harsh environmental conditions such as extreme UV exposure, salt spray and heavy pollution.

Knotwood is available in a smooth or textured natural finish, the smooth boasting advanced anti-graffiti properties. With Knotwood™ Smooth, paint and marker pen can be easily removed using household chemicals.

Knotwood can be used internally and externally on aluminium windows, doors, privacy screens, shutters, louvres, balustrade, cladding and soffits and more.

Fencing, Gates & Privacy Screens





Fencing, Gates & Privacy Screens

Knotwood aluminium systems use a concealed fixing system which hides unsightly screws and rivets, no welding is required and are easy-to-install. Our systems offer the latest styles with the ability to install the aluminium slats vertical or horizontal, use any size spacing between slats and even install the slats on an angle.

Knotwood is durable with a tough texture coating, long lasting with a 15 year warranty and low maintenance.

Our unique ranges of accessories are colour matched to give you a seamless uniform finish.

Cladding, Soffits & Pergolas





Cladding, Soffits & Pergolas

Knotwood's cladding, soffits and pergolas are a low maintenance, fire proof and light-weight alternative to wood, all our aluminium systems require no welding and are easy-to-install. Our systems offer the latest styles with the ability to install vertically or horizontally, using any size spacing.

Knotwood is durable with a tough texture coating, long lasting with a 15 year warranty and low maintenance.

Our unique range of accessories are colour matched to give you a seamless, uniform finish.

Decking, Balustrades & Shutters





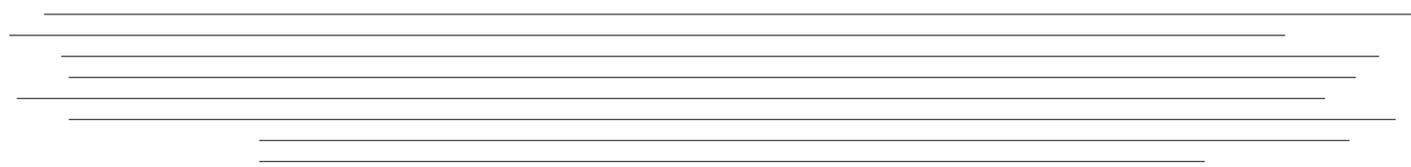
Decking, Balustrades & Shutters

Knotwood aluminium decking uses an innovative waterproof design. It will not warp, splinter, crack, rot or swell like timber or composite decks and is designed for easy installation.

Knotwood aluminium decking is cool to the touch, aluminium has high thermal conductivity and rapidly dissipates heat, creating a cooler surface than most traditional decking materials.

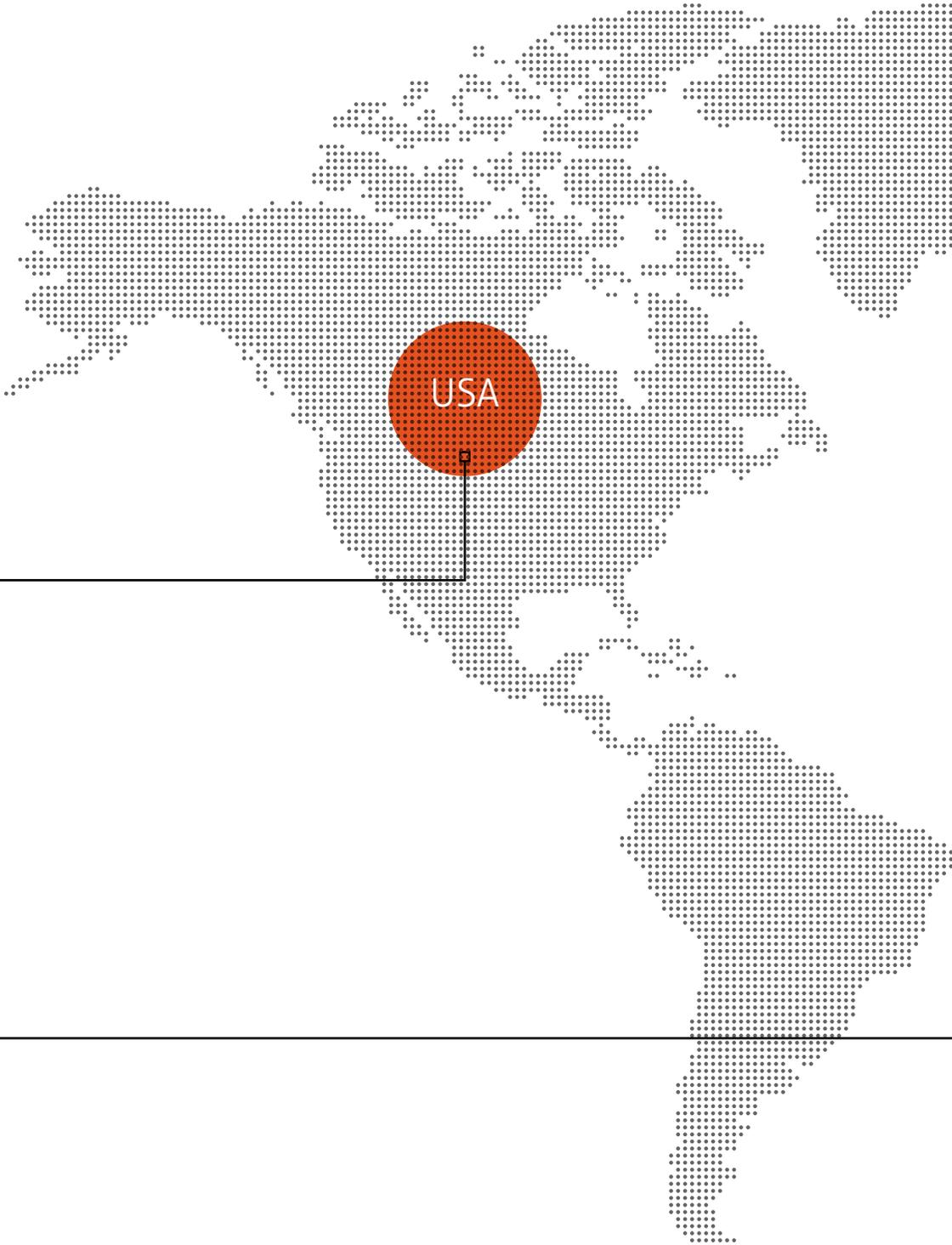
Knotwood's balustrade system is adaptable, you can install aluminium slats, adjustable louvres or glass. Knotwood handrail system can also safely and elegantly enclose patios, sun decks, balconies and swimming pools.

Knotwood shutters have been designed to reflect harmful UV rays and heat while allowing light through. Knotwood adjustable shutters can be fixed, hinged, sliding or bifold to suit any application.



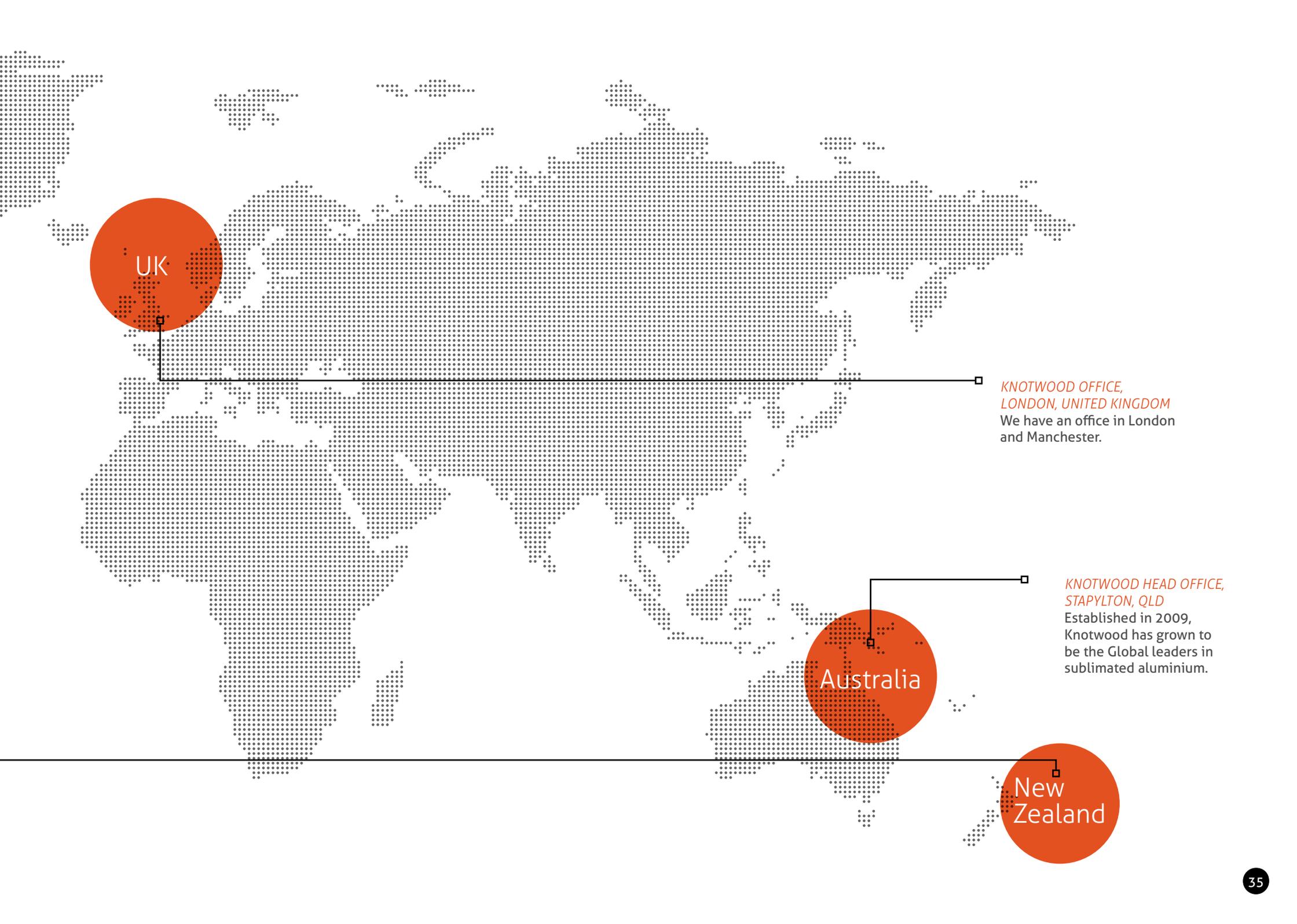
Our global network.

Our worldwide network gives us international savvy and local flavor. Doing business with Knotwood links you into multinational business solutions while still receiving local attention and personalized service. We deeply value these industry friendships and appreciate the opportunity to share the advantages of our global network with you.



KNOTWOOD OFFICE, HAWAII, USA □
Knotwood has a branch in the North-West and is distributed throughout the Mainland and Hawaii

ULLRICH ALUMINIUM □
Knotwood is distributed by Ullrich Aluminium in both North and South island of New Zealand.



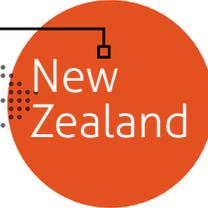
UK

*KNOTWOOD OFFICE,
LONDON, UNITED KINGDOM*
We have an office in London
and Manchester.



Australia

*KNOTWOOD HEAD OFFICE,
STAPYLTON, QLD*
Established in 2009,
Knotwood has grown to
be the Global leaders in
sublimated aluminium.



New
Zealand

Knotwood PTY LTD | sales@knotwood.com.au | www.knotwood.com.au

Australia
Phone: 1300 566 896
www.knotwood.com.au

New Zealand
Phone: 0800 500 338
www.knotwood.com.au

USA
Phone: 1855 566 896
www.knotwoodusa.com

UK
Phone: 077 042 700 97
www.knotwood.co.uk

