



 **HURFORD'S**



**WOOD  
ELEMENTS**  
REFINED ARCHITECTURAL CLADDING

BY HURFORD'S

# Introducing WOOD ELEMENTS...

WOOD ELEMENTS brings natural style to any exterior surface, whether as an individual feature or an entire façade. WOOD ELEMENTS is a complete solution, offering not just the cladding but all the detailed trims required to finish off the project ensuring a watertight result.

Manufactured by Hurford's a family owned and operated business, your WOOD ELEMENTS cladding solution will add warmth and create a connection to the natural environment and living space for you to enjoy and relax in. With four species to choose from only the highest quality and naturally durable timber has been selected to produce WOOD ELEMENTS. All of Hurford's WOOD ELEMENTS cladding is 100% PEFC Certified.

Within The Hurford's WOOD ELEMENTS range we have available TEMPWOOD. The cladding system that is transforming New Zealand's building industry. A chemical free, sustainable thermally modified pine that offers a more dimensionally stable product with minimal expansion. Whether you are after a natural look or a specific colour, TEMPWOOD has many natural wood oil colour options available.

The perfect choice with its complete system, WOOD ELEMENTS offers easy installation with its end matching, concealed screw fix, automatic spacing design and exclusive designer trims. Using our expertise in drying and machining timber enables us to manufacture not only an incredibly beautiful cladding, but also a precision piece of timber suitable for all the ELEMENTS.





# Species options



**Blackbutt**  
*Eucalyptus pilularis*

Blackbutt is a species that grows in abundance in the coastal forests in New South Wales and Southern Queensland. The common name is derived from the distinctive black, charcoal look that is only on the base of the trunk. The timber is renowned for both its strength and versatility of application. Blackbutt is a straight grained timber, with a warm nutty hue which will compliment a range of designs where a lighter neutral palette is required.



**Spotted Gum**  
*Corymbia maculate, Corymbia citriodora*

Spotted gum is a large native hardwood that is grown in a variety of forest types along the NSW coastal strip into Queensland. The word "spotted" refers to large spot like features that form on the tree as it sheds its bark in strips. Spotted Gum is a rich individual timber, desired by architects and designers the world over, particularly for its striking backsawn grain structure, attractive fiddleback and vibrant colour palette.



**TEMPAWOOD**  
*Radiata Pine, Pinus radiata (Thermally modified)*

The most common commercial timber species in New Zealand, a versatile evergreen conifer native to Southern California and Northern Mexico. An easily managed timber that tolerates a number of elements, grows quickly and has many uses. Straight grained with a medium, even texture, light coloured sapwood with a darker heartwood and knots are common. \*18 preoil colour options available



**Saligna**  
*Eucalyptus Saligna*

Also known as Sydney Blue Gum, the heartwood on Saligna is dark pink to red brown. The sapwood is usually sufficiently paler and is readily distinguished. It has a moderately coarse but even texture and the grains can be straight or slightly interlocked with gum veins which is common.

# Finish options



Dressed Face



Sawn Brushed Face



Shou Sugi Ban (Charred)

The Wood Elements TEMPAWOOD range is a plantation pine which is chemical free and has been thermally modified making it an extremely stable, durable and sustainable cladding option.



TEMPAWOOD exceeds performance in exterior applications as a result of the timber being naturally treated with high temperatures and very little oxygen. This modifies the wood removing resins and food sources for mould and insects. The thermal heat treatment eliminates the need for any chemicals to be used in the treatment process making it a safer option for humans and the environment.

Available as a thermally modified cladding which is coated in either a clear coating for that natural look or TEMPAWOOD can be pre-coated in one of many natural WoodOil Colour options.

Hurford's use Dryden WoodOil, a water-repellent, non-filming timber protector. It is a migrating oil that protects and enhances the natural appearance of timber. Dryden Colourtones can be added to the WoodOil clear base to provide UV protection and give off a specific tone depending on preference. There are 18 Colours, darks to lights and everything in between available in the WoodOil range.

**Visit [hurfordwholesale.co.nz](http://hurfordwholesale.co.nz) to request your sample.**



Autumn



Oropo



Clear



Lite Oak



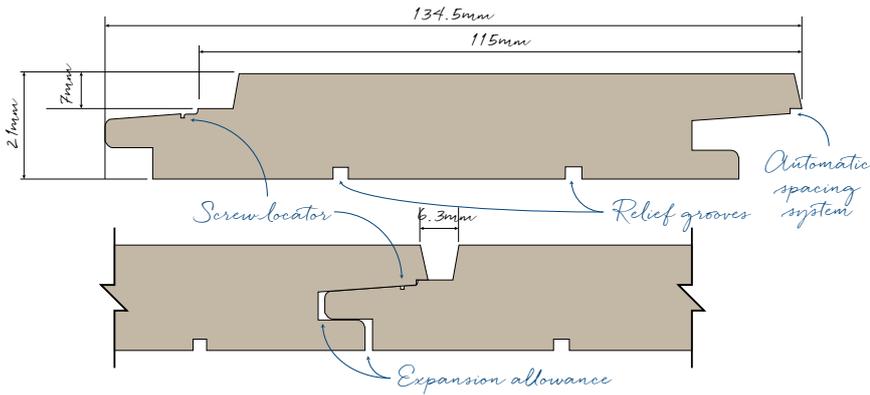
Midnight



Slate

# Designer profile

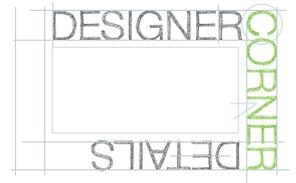
WOOD ELEMENTS collective features include; a straight-line edging process to ensure the cladding is machined to a fine tolerance; relief grooves which are designed to take the stress out of the cladding; a specially designed ridge locator connects with the overlap line controlling the expansion allowance for any timber movement.



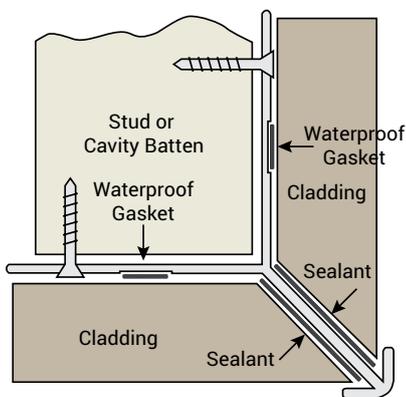
A contemporary take on a traditional shadowline profile that is all about flow.

# Designer trims

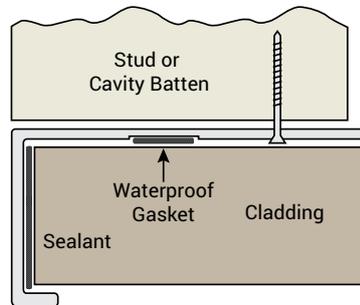
WOOD ELEMENTS trims provide a streamline finish and play an integral part in ensuring a water tight finish. All aluminium trims are factory fitted with waterproof gaskets\*, designed to decrease the on-site sealing process, and delivery of loose materials. WOOD ELEMENTS trims are available in a black powder coated chromate treated aluminium.



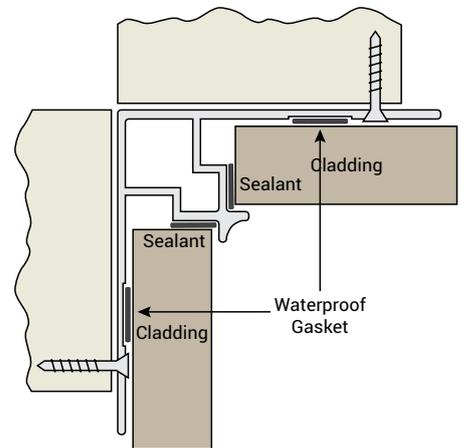
**Aluminium External Corner Stop**



**Aluminium End Stop L**



**Aluminium Internal Corner Stop**



\* 9mm x 1.6mm gaskets are factory fitted.

# Design elements & fixings

Extreme care has been taken in all aspects of WOOD ELEMENTS Refined Architectural Hardwood Cladding. From the environment to milling and drying, profile and trim design and species selection. Each element plays an important role in the performance of the cladding system.

## DOUBLE DRIED TECHNOLOGY

All the timber used to manufacture WOOD ELEMENTS is air dried for up to 12 months to bring the moisture content down to "fibre" saturation. From this point the timber is kiln dried using double drying technology, developed by Hurfords to ensure significant added stability. This produces a finished product with a very narrow moisture variation.

## STRAIGHT-LINE DRESSED

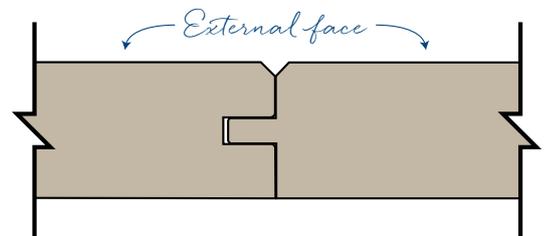
When timber is milled and dried it builds stress and force, which translates into spring and bow. Steps can be taken during this process to minimise this. Hurfords uses a process to straighten the boards post drying to ensure the boards are straight and stay straight. This ensures that WOOD ELEMENTS can be easily installed and all shadowlines remain as they have been designed – straight.

## AUTOMATIC SPACING SYSTEM

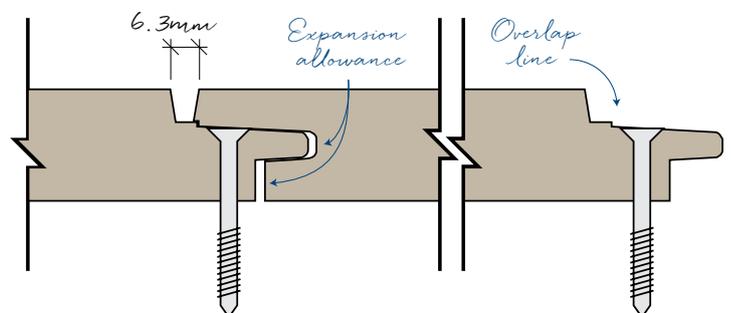
The Automatic Spacing System allows expansion to be placed between the boards, which is automatic and doesn't require any special tools or spacers to get right. The specially designed ridge locator controls the expansion allowance. This unique design feature takes out any pressure caused if the boards expand due to absorption of moisture.

## ENDMATCHING

Utilising a specially developed end match system for external use, WOOD ELEMENTS end-match profile has a micro bevel edge designed to encourage water to drain away from the joint. End matching the product means the boards can be fixed mid cavity batten, eliminating the need to dock and create volumes of waste, saving a minimum of 10% of the product that previously would have been thrown away. Not only does this save costs, it's a better for our environment with less resource being used.



WOOD ELEMENTS is a cladding that has been designed with concealed fixing in mind. For fixing, Hurford's recommend screwing along the pre machined "screw location" line which enables the board to slip over the secured row quickly and easily, creating a clear face finish.



# Design points

WOOD ELEMENTS is a natural product, a renewable resource, providing an environmental advantage over common building materials. Timber will only perform within the limits of its natural properties, when specifying, it's critical that the characteristics and properties of the timber are considered and determine how they will respond to the environment they are placed in.

## Timber Movement

Timber is a hygroscopic product, which means that it will absorb or lose moisture depending on the environment it is placed in. When timber is placed in a high humidity (moist) environment it absorbs moisture and expands, oppositely when timber is placed in a low humidity (dry) environment it sheds moisture and shrinks. Although all Wood Element products are kiln dried it is important that local conditions are taken into account when planning.

Consider the level of sun exposure, wind, rainfall and humidity in the area. Identify any possibilities of extreme conditions and alter the designs to suit. Allowances made at design stage can avoid potential problems later on. Our cladding profiles allow for 2.5mm expansion and 7mm contraction.

## Leaching

Leaching of tannins occur when timber is exposed to rain which may cause staining on surfaces in contact with the cladding. Directing water runoff, preparing timber prior to installation and maintaining the finish will help reduce any potential leaching.

## Water Proofing

At design stage it's important to detect any potential water traps or ventilation issues that will increase the chances of the cladding being affected by moisture. WOOD ELEMENTS cladding profile and trim designs provide water diversions to decrease the chance of any sitting water, although, the Moisture Barrier System does not eliminate the need for good building practice.

## Pre-Oil Option for Dressed Face & Sawn Brushed Face

Hurford's Pre-oiling Option – 1 coat of oil is applied to WOOD ELEMENTS prior to delivery. This option eliminates the onsite pre-oiling process and costs.

TIP: During timber installation, touch up any cut-ends with your chosen finish.

Following installation and within a 4 week time frame, apply 1 coat of your chosen oil based or water based finish. Do not apply a mineral oil based finish.

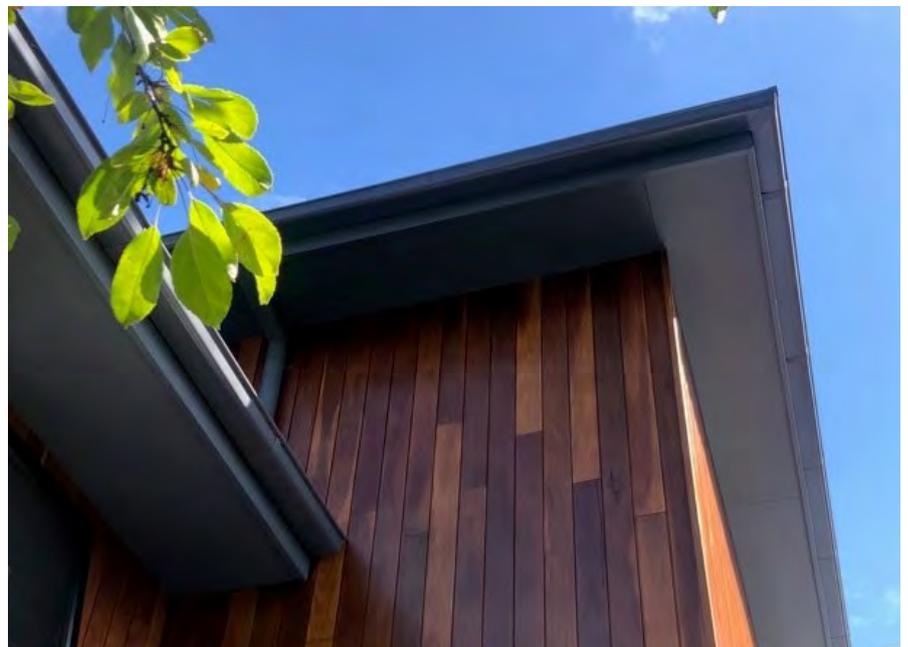
For long term protection:

1. Conduct regular maintenance inspections to ensure your coating is still repelling water and the finish is in sound condition.
2. If maintenance is required, thoroughly scrub with Timber Cleaner and apply a fresh coat.

Stains and Paints - Transforming the timbers colour can be achieved by using a stain or paint to finish. The finish system will need to cater for any possible dimensional changes in the timber, Hurford's recommends seeking the manufactures advice before application.

Clear film - Unpigmented finishes including clear film finishes tend to have a limited life when exposed to UV-light. Unless strictly maintained, film finishes can be susceptible to trapping moisture, peeling and greying faster.

No finish – Any timber left uncoated and exposed to the direct or indirect sunlight will inevitably weather. With this you should expect increased checking, fading and greying of the timber cladding. The rate is generally slow, though the life of the cladding may not be as long compared to a finished and maintained façade.



Hurford's uses a modernised **Shou Sugi Ban** technique, that evenly chars the face of the board. The Shou Sugi Ban finish is supplied pre-oiled with Feast Watson Timber and Deck Stain, Black Japan, to assist in the protection from aging and colour change.



# Maintenance

## Maintenance for Dressed Face & Sawn Brushed Face

Considerations at design stage regarding the accessibility, positioning and finish should be discussed between the client and builder. The expected outcome will determine the level of maintenance required.

The extent of maintenance can depend on two main points;

1. The type of finish that's applied - All external coatings need to be applied and maintained in accordance with the manufacturer's recommendations.

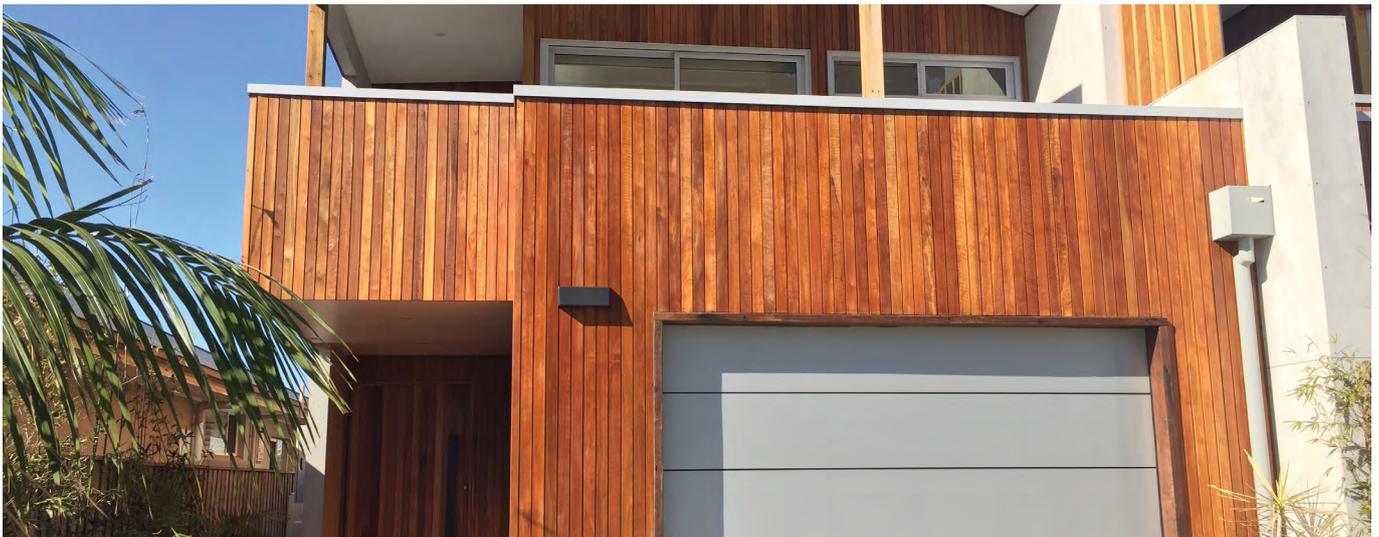
2. The amount of additional protection the façade has from the weather including the degree of sun exposure - Extra protection can include wide eaves, soffits, avoiding water traps, utilise balconies/ covered space or even glass panelling installed in front of the cladding.

For a minimal maintenance option, consider allowing WOOD ELEMENTS to weather naturally. With this you should expect increased checking, fading and greying of the timber cladding. Greying affects the surface of the timber, if a change in appearance is decided WOOD

ELEMENTS can be rejuvenated and finished to the new desired effect.

Please note: An extensive process may be required to prepare the surface for rejuvenating and finishing, depending on the degree in breakdown of the surface fibres.

WOOD ELEMENTS requires no structural maintenance once installed correctly.



## Maintenance Shou Sugi Ban

It is well known that any timber left uncoated and exposed to direct or indirect sunlight will inevitably weather and grey off. Hurford's Shou Sugi Ban Refined Architectural Cladding is no exception.

Shou Sugi Ban is supplied pre-oiled with Feast Watson Timber and Deck Stain, Black Japan to assist in the protection from aging and colour change. During installation it is required

you coat any sawn cut exposed ends with Feast Watson Timber and Deck Stain, Black Japan. Once Shou Sugi Ban Refined Architectural Cladding is installed, apply a second coat of Feast Watson Timber and Deck Stain, Black Japan to hide any imperfections that may occur during installation.

Periodic maintenance, including reapplying a fresh coat of Feast Watson Timber and Deck Stain, Black Japan is required to maintain the dark burnt texture of the product.

Leaving the product unmaintained or uncoated will lead to the dark Shou Sugi Ban to naturally fade and age, changing its appearance. This change in appearance will not affect the performance of the product.

For more information on Feast Watson Timber and Deck Stain, Black Japan maintenance or to find a stockist please click on their website [www.feastwatson.co.nz](http://www.feastwatson.co.nz) or phone FREECALL 0800 222 687.



### Architectural Specification

Product Name	WOOD ELEMENTS CLADDING		
Length	Random		
Joining	End Matched, Micro Bevel		
Grade	Standard & Better		
Species	Durability Class 2 and Better PEFC Certified Australian Hardwood Species <ul style="list-style-type: none"> <li>• Blackbutt</li> <li>• Spotted Gum</li> <li>• TEMPWOOD (Thermally modified Radiata Pine PEFC Certified)</li> <li>• Saligna</li> </ul>		
Size	134.5mm (Cover Size 115mm) x 21mm		
Trim - External Corner	Aluminium with fitted moisture proof gasket.		
Trim - Internal Corner	Aluminium with fitted moisture proof gasket.		
Trim - End Stop	Aluminium with fitted moisture proof gasket.		
Fixing	ASSY@PLUS 4 A2 TH 5,5x70/33MM 0166 235570 Available to purchase from Hurford's		
Appearance	Dressed Face	Sawn Brushed Face	Shou Sugi Ban
TEMPWOOD Pre-Oil	Pre-Oil option Dryden's WoodOil and Colourtones range. 18 colours available.		

\*Australian hardwood species pre-oil options available on request.



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