



THERMALLY MODIFIED TIMBER

 **truWOOD**[®] stable
durable
thermal
natural

THERMALLY MODIFIED TIMBER



Truwood® offers durability, stability and aesthetics in a wholly natural and renewable product.

Truwood® is Codemark certified for use with Cedarscreen - Vertical, Rusticated, Bevel Back and Board and Batten Weatherboard Systems.

Cedarscreen systems have been developed to offer several timbers for compliant use. These include Truwood® - a thermally modified timber, Western Red Cedar and Larch.

Rosenfeld Kidson can now offer Truwood®. This beautiful product is a thermally modified, clear grade, low density hardwood, sourced from well-managed forests. The thermal treatment provides a rich Teak coloured timber with great properties of durability and stability without any chemical treatment – just heat and wood.

GENERAL

Truwood is produced from a timber called Ayous, using the latest thermal modification technology, which involves applying heat at 160 – 230°C, water vapour and pressure to the timber.

Modified timbers are making an increasing inroad into the construction industry, as availability increases and their benefits are realised. Truwood offers increased durability, stability and aesthetics in a renewable timber that is readily available in clear, long lengths. This product is considered the most popular modified cladding timber in Europe.

Truwood is classified as Durability Class 2 and is considered more durable than other naturally durable cladding types available. Truwood is also very stable, due to the modification process. Since the cell structure of modified wood absorbs less water, the equilibrium moisture content of the timber is also reduced. Improved dimensional stability reduces movement in service such as cupping, as well as splitting and checking around fixings.

Truwood is an excellent choice for cladding and is available in a wide range of 19mm thick vertical and horizontal weatherboard profiles.

The timber is profiled in accordance with NZS3617 and Branz Bulletin 411, with both vertical and horizontal profiles compatible with all standard Rosenfeld Kidson cladding system details.

It is the ideal cladding solution where less frequent maintenance is required. An additional benefit of the reduced movement in service is the increased performance of coatings.

Truwood is also well suited to many other applications. Its relative low density makes it great for window frames, door sliders, garage doors, louvres and gates, as well as other internal joinery applications.



DENSITY (KG/M3)*: 350

DURABILITY: CLASS 2 - DURABLE

*Air Dry Density (kg/m3) is average indication only and actual value may vary.

PHYSICAL PROPERTIES

Equilibrium moisture content 65% RH, 20°C	6.5%
Radial Shrinkage (fibre saturation point to oven dry)	1.5%
Tangential Shrinkage (fibre saturation point to oven dry)	1.9%
Thermal Conductivity	0.08 W/m.K
Bending Strength	40 N/mm ²
Modulus of Elasticity	6.0 kN/mm ²
Impact Work to Failure	20 kJ/m ³
Hardness	1300 N

GRADING

Truwood is produced from the best export grade available, being SELECT grade.

This grade is a clear grade and contains very little defects. Occasional tight knots, wormhole or end splits may be present.

KEY CHARACTERISTICS

The increased biological durability is a result of the removal of natural food sources in the timber, as well as changes in the chemical and structural composition. Levels of resistance to fungal decay increase as higher temperatures are used.

Density is lower and yields on average 350 kg/m³. The equilibrium moisture content and adherent dimensional stability is improved 40 to 50% by this process. Stability increases with higher treatment temperature.

Generally, the strength of the modified timber has a direct correlation with density. The modification process slightly lowers the density and therefore has some effects on the strength values, which are comparable to Western Red Cedar.

As with most materials, thermally treated timber is unable to resist the effects of ultra violet radiation. Over a fairly short period of time, when exposed to direct sunlight, the colour will fade from the original mid brown appearance to a grey weathered colour. In addition, the ultra violet radiation can cause small surface checks to occur, as with any timber. It is recommended to apply a pigment based surface protector to prevent colour changes and other natural effects of the weather.

SIZES AVAILABLE

100x25mm	150x25mm	200x25mm
100x50mm	150x50mm	200x50mm

SANSIN PRECISION COAT FACTORY FINISH

To add an increased level of design flexibility to this range, we are able to provide Sansin's Precision Coat Factory Finishes in a natural tonal range, enhancing the performance and decorative appearance of Truwood®.

Applied under controlled conditions to a strict quality assurance programme, Sansin's Precision Coat Factory Finishes are available in specialised formulas for single or multi-step protection for all wood surfaces. Engineered for standardised production quality and cost efficiency, Precision Coat delivers exceptional wood protection, performance and beauty, whilst reducing the effects of climate and the often harsh conditions encountered in New Zealand.

To ensure an optimum performance level is achieved your cladding should be annually cleaned and maintained in accordance with Sansin manufacturer maintenance schedules.

SDF

APPLICATION OVERVIEW

SDF is considered the finest exterior, translucent timber protection for factory finishing, delivering both beauty and durability to the highest standard in an endless spectrum of colours. This unique waterborne, alkyd formula uses water not solvent to penetrate wood. SDF can rely on a 30-year history of proven durability in an environmentally-friendly formula.

FEATURES

- Penetrating
- Designed for machine application
- Standardised production quality control
- Cost-effective
- Non-flammable
- Low-VOC
- UV stable
- Water repellent
- Creates a monolithic bond with wood for long-term protection
- Limited Warranties available

SDF COLOUR GUIDE

INTERIOR USE ONLY		
DAISY	PEBBLE	ANCHOR
COBBLESTONE	STERLING	KENYA
SHIITAKE	TUSSOCK	PENNY
COFFEE BEAN	ROMAN	OUTERSPACE
WENGE	JET BLACK	EBONY

WOODFORCE^{NZ}

APPLICATION OVERVIEW

WoodForce^{NZ}: A durable wood treatment that allows exterior wood to weather naturally while offering exceptional water repellency and protection from blackening and deterioration. Easily applied standard and custom colours that let the exposed surface weather naturally and more evenly.

FEATURES

- Protects wood while allowing weathering
- Creates complete range of weathered looks, colours and effects
- Environmentally friendly, low toxicity
- VOC-SCAQMD Compliant
- Red List/CARB Compliant
- Penetrates the substrate
- Water repellent
- Breathable
- Clean up with soap and water
- Exceptionally easy to maintain

WOODFORCE^{NZ} COLOUR GUIDE

PEARL LRV Value: 28	MIST LRV Value: 28	ASH LRV Value: 25
SEAL LRV Value: 21	CLAY HILL LRV Value: 16	SCALLOP LRV Value: 19
SANDSTONE LRV Value: 15	CORAL LRV Value: 13	WILLOW LRV Value: 11
SADDLEBACK LRV Value: 9	HARBOUR LRV Value: 12	GULLY LRV Value: 11
KANUKA LRV Value: 7	WROUGHT IRON LRV Value: 6	COAL DUST LRV Value: 3

LRV, or light reflective value, refers to the percentage of light a paint colour reflects. To predict how light or dark a colour will appear, experts use its light reflective value. LRV is measured on a scale from 0%, which is black and doesn't reflect any light to 100%, which is pure white and reflects all light.

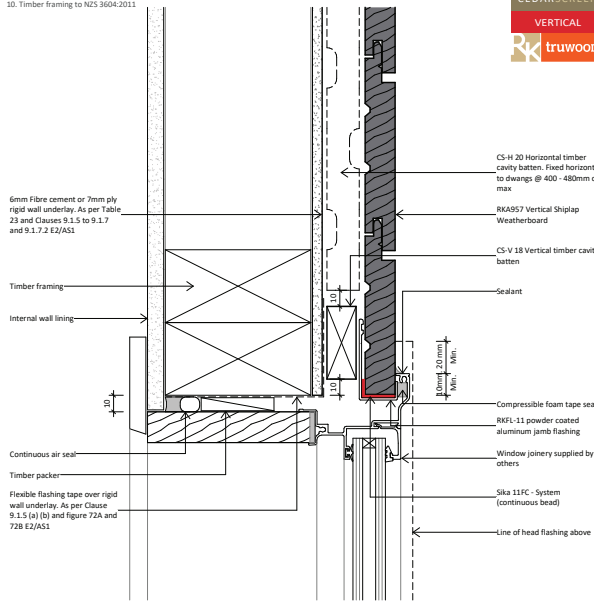


PrecisionCoat™
FACTORY FINISH

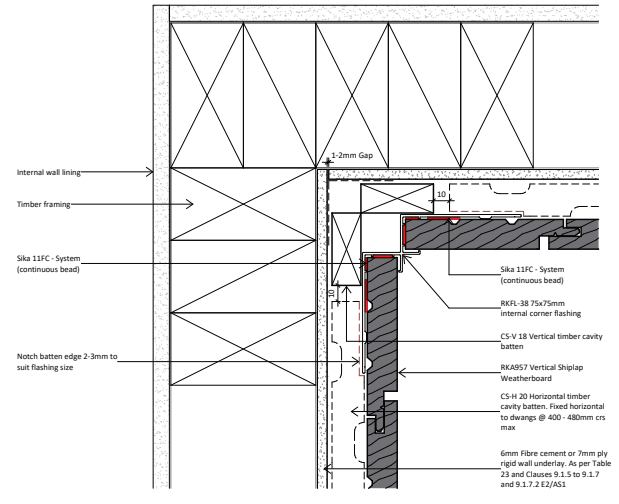
Our colours have been optimised for accurate viewing across a variety of media. However, due to differences in how screens display colour, actual colour may vary. Colour may vary depending on texture, grain, colour, porosity and type of wood and may not be exactly as illustrated. Always test the purchased product on an inconspicuous part of the project to ensure the colour and transparency meet expectations of your control sample.

VERTICAL WEATHERBOARDS

1. Scope as per Clauses 1.0 and 9.4 E2/AS1
2. Profiles as per NZS 3617, Branc Bulletin 411 and/or compliance achieved through in-service history, length of service not less than 15 years in all NZ environments B2/WM1 1.1.1 (a)
3. Fixings as per Table 24 E2/AS1
4. Compatibility of materials as per Tables 20-22 E2/AS1
5. Flashing as per Clause 4.0 E2/AS1
6. Rigid and flexible underlay as per Table 23 and Clauses 9.1.5 to 9.1.7 E2/AS1 or proprietary approved alternative
7. All weatherboards to be factory oiled to all faces and weathergrooves prior to installation, ensure maintenance is to manufacturers recommendations
8. The weatherboard system relies on the joinery meeting the requirements of NZS 4211 for the relevant building windzone or wind pressure
9. Timber to NZBC B2 Durability B2.3.1(b), Western Red Cedar, Larch and Truwood*
10. Timber framing to NZS 3604:2011

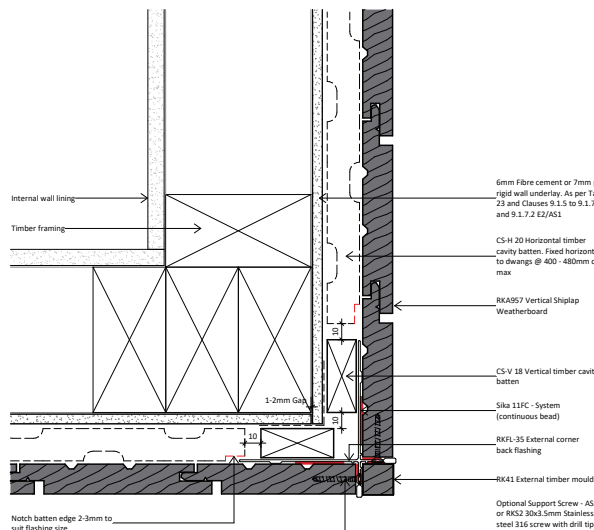


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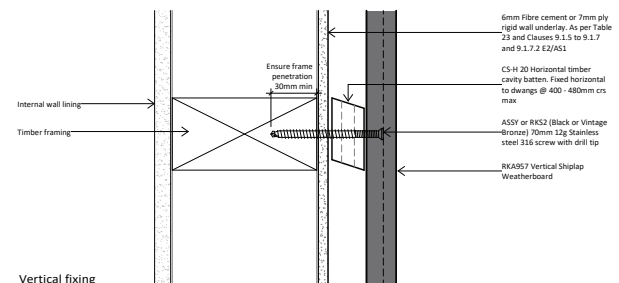
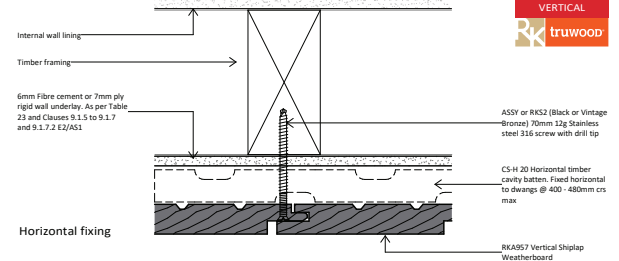
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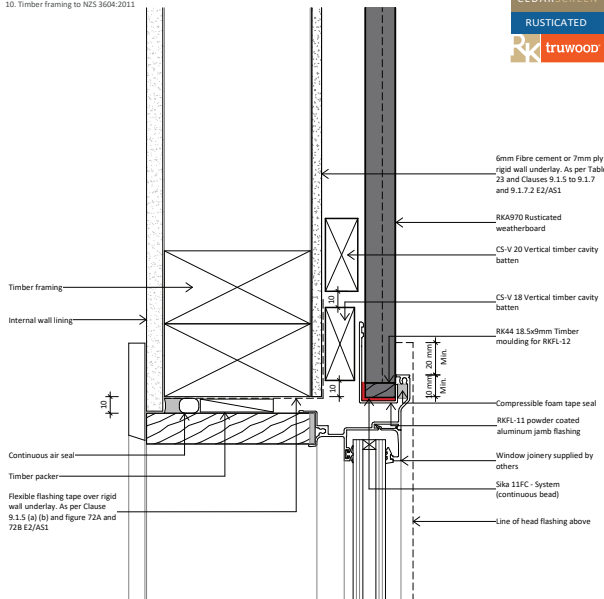
*Pre drill all fixing points prior to screw fixing to reduce the risk of splitting. Do not over drive fixings, hand torque fixings in place. Use RK drill stop to suit the RK/52 12g screws

Cedarscreen Systems carry dual Codemark Certification covering the combined use of Western Red Cedar and Truwood.

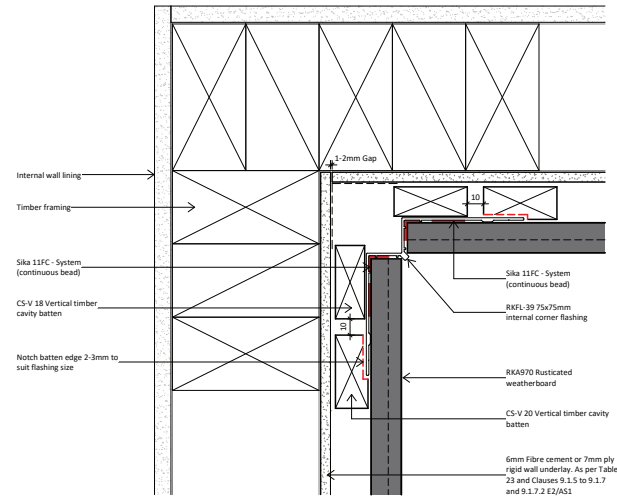
Truwood is used in line with all Cedarscreens Systems.

RUSTICATED WEATHERBOARDS

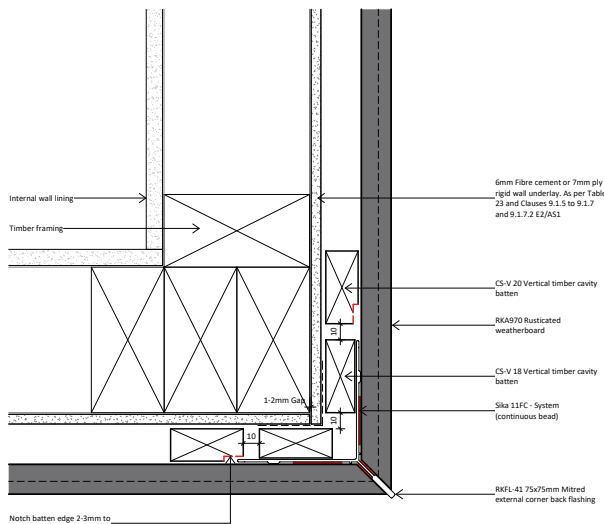
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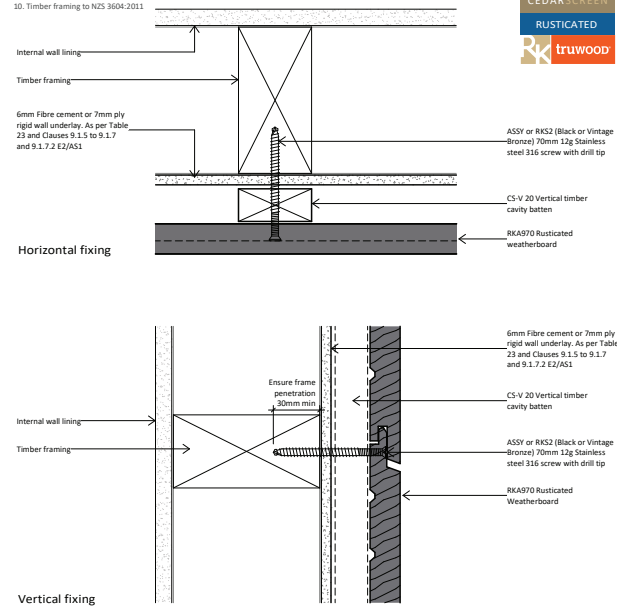


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Ensure vertical CS-V 18 corner battens are 2-3mm thinner than the adjacent 20mm CS-V 20 Vertical battens, this is to take up the flashing thickness.

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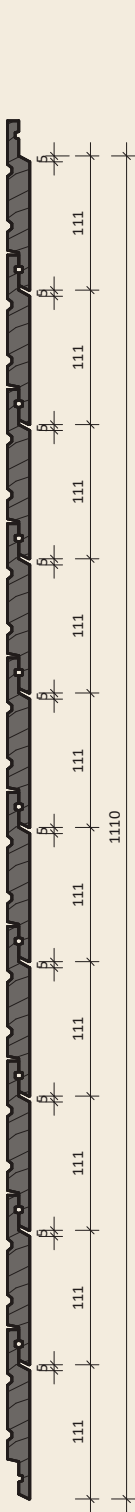
- Pre-drill all fixing points prior to screw fixing to reduce the risk of splitting.
- Do not over drive fixings, hand torque fixings in place.
- Use RK drill stop to suit the RK/S2 12g screws

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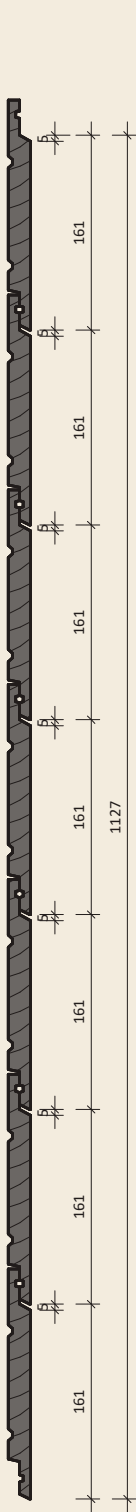
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RUSTICATED WEATHERBOARD SETOUTS

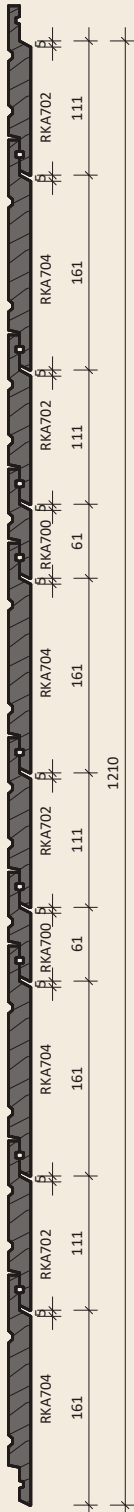
RKA702 Weatherboards



RKA704 Weatherboards

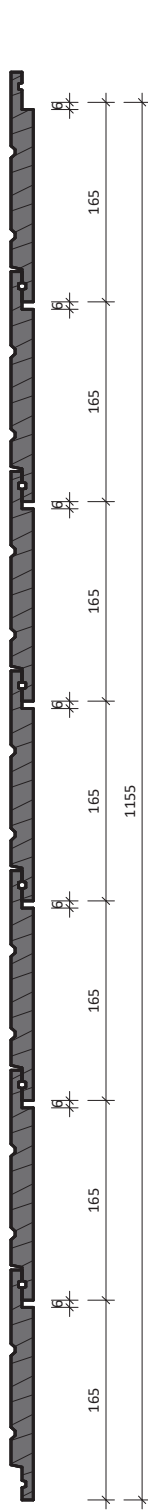


Random Width Weatherboards

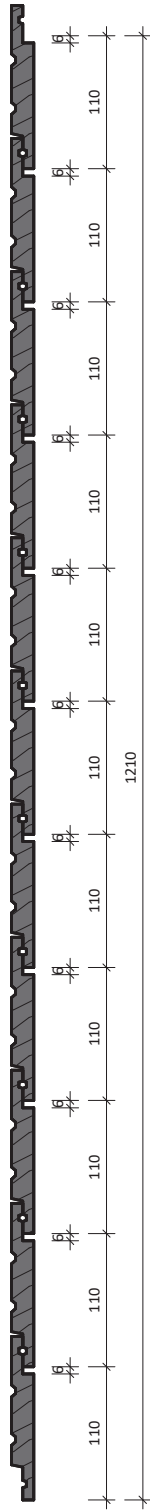


VERTICAL WEATHERBOARD SETOUTS

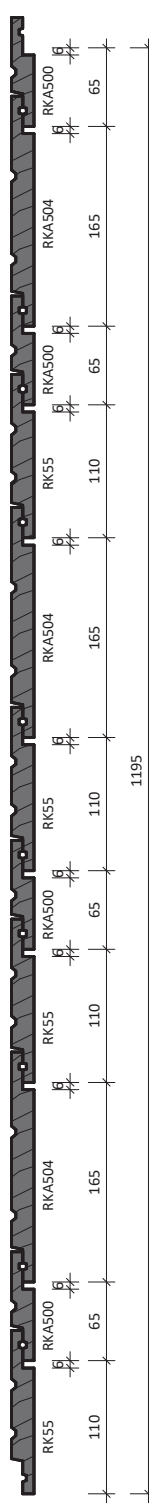
RK56 Weatherboards



RK55 Weatherboards



Random Width Vertical Weatherboards

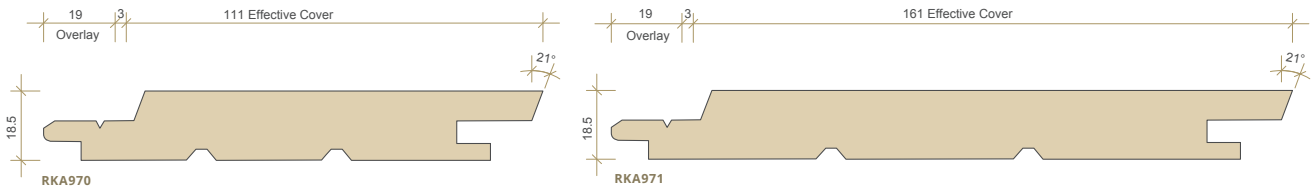


CONCEALED FIX WEATHERBOARDS

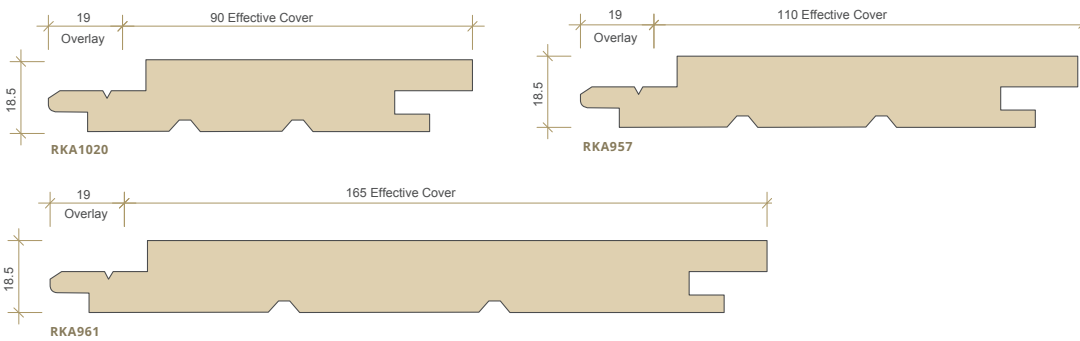
One of the main benefits of thermally-modified timber cladding is its stability. Due to the modification of the wood's cell structure, the timber absorbs less moisture, reducing movement that leads to cupping, splitting, and checking around fixings. Because the wood is less likely to expand and contract, and the natural sugars and starches have been removed from the wood during the modification process, it's significantly less susceptible to rot and degradation from UV and the elements.

These advances enable us to be more creative with the timber profiles and detailing. Rosenfeld Kidson is now able to offer unique concealed fix weatherboard profiles for our Vertical and Rusticated cladding systems. The new concealed fix profiles allow us to be creative with innovative joinery and corner detailing. The new profiles and details offer ease of installation – keeping it simple, whilst delivering a modern and distinctive timber façade.

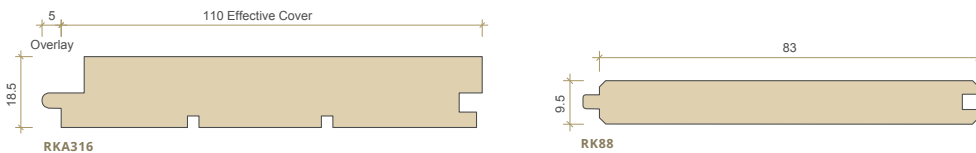
CONCEALED FIX RUSTICATED



CONCEALED FIX VERTICAL



PANELLING PROFILES



COMMON RANGE OF TRUWOOD® PROFILES

