

Western Red Cedar – the natural choice for External Cladding

Sourced from North America, Western Red Cedar is one of the great renewable resources, a truly remarkable timber. As one of the most versatile timber species commercially available, its natural properties lend themselves perfectly to a range of external cladding product options not achievable with many other timbers.

Western Red Cedar tongue and groove cladding is widely used for its good looks and versatility. It can be installed horizontally, vertically or diagonally, each method giving a distinctly different look.

The CONCEAL FIXED option



For almost as long as man has been sheathing the exterior of buildings with timber, nailing through the cladding face has been the most widely adopted method of fixing.

Of more recent times, improved understanding of drying characteristics has resulted in the emergence of timber products with greatly improved dimensional stability.

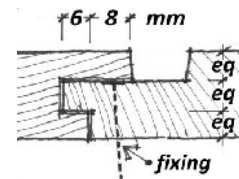
This characteristic has enabled **concealed fixing** to be incorporated into the profile detailing and a range of cladding options is now available to take full advantage of this more subtle method of securing.

Western Red Cedar is exceptionally suited to **concealed fixing**. Its naturally inherent properties, (low density and exceptionally low shrinkage rates) are the essential attributes necessary for the long term reliable performance of a hidden fixed cladding system.

A **Conceal Fixed** profile is most suited when the cladding has been partially or fully pre-finished (coated before installation). In these cases, **concealed fixing** alleviates any need to penetrate visually exposed faces allowing full retention of the integrity of the initial coating.

Some Comparisons between FACE FIX and CONCEAL FIX Cladding

cladding attribute / characteristic	face fix	conceal fix
clean finished surface with no evidence of fixing	no	yes
nail heads visible on finished surface	yes	no
necessary to penetrate pre-finished coating film	yes	no
maximum cover width – most economical	yes	no
suitable for all wind speed regions	yes	some conditions
suitable for all standard widths of cladding	to 300 mm	200 mm max



Conceal Fixed claddings have a smaller cover width than their Face Fixed counterparts.

CONCEAL FIXED Cladding - Profile Range – see web site for comprehensive details

SHIPLAP

Code WC SA, SB, SC
18 mm 78, 127, 176
15 mm 78, 127



Conceal Fix Shiplap series available with 6, 12 & 18 mm wide groove

VEE JOINT

Code WC VJ
18 mm 78, 127, 176
15 mm 78, 127



The VJ series comprises a 45 degree face off a 1 mm shoulder

EASED EDGE

Code WC EA, EB, EC
18 mm 78, 127, 176
15 mm 78, 127



Eased Edge series available with 6, 12 & 18 mm wide groove

RUSTICATED

Code WC RC
18 mm 127, 176
15 mm n/a



All 18 mm *Conceal Fixed cladding* is available with a dressed face (standard) or saw textured face finishing 16 mm (optional).

CONCEAL FIXED Cladding – Nailing Recommendations

Except where specifically noted otherwise, the following nail fixing recommendations are applicable to all softwood framing with a joint rating of JD5 or better and all hardwood and cypress wall framing.

The recommendations account for both nail withdrawal and head 'pull through'.

The recommendations only apply where the cladding is fixed direct to wall frames forming an enclosed wall cavity sealed with internal lining. For other wall systems refer to a registered professional engineer.

The nail sizes indicated in the Table below are commonly available hot dipped or mechanically galvanised coil gun nails, as follows:-

A = 45 x 2.5 galvanised flat head (plain or ring shank, head dia. approximately 5.5mm)

B = 50 x 2.5 galvanised flat head (plain or ring shank, head dia. approximately 5.5mm)

Data is applicable to both 15mm and 18mm TIMBECK Western Red Cedar Cladding Profiles.

Non-Cyclonic Regions

Wind Class'n	General Wall Area Studs at			Within 1200mm of corners Studs at		
	300	450	600	300	450	600
Cover width 78mm						
N1/N2	A	A	A	A	A	A
N3	A	A	A	A	A	A
N4	A	A	A	A	A	A
Cover width 127mm						
N1/N2	A	A	A	A	A	A
N3	A	A	A	A	A	A
N4	A	A	A	A	B	B ⁽¹⁾
Cover width 176mm						
N1/N2	A	A	A	A	A	A
N3	A	A	A	A	B	B ⁽¹⁾
N4	A	A	B	B	B ⁽¹⁾	NS ⁽²⁾

Cyclonic Regions

Wind Class'n	General Wall Area Studs at			Within 1200mm of corners Studs at		
	300	450	600	300	450	600
Cover width 78mm						
C1	A	A	A	A	A	A
C2	A	A	A	A	A	A
C3	A	A	A	A	A	B ⁽¹⁾
Cover width 127mm						
C1	A	A	A	A	A	A
C2	A	A	A	A	B	B ⁽¹⁾
C3	A	A	B	B	B ⁽¹⁾	NS ⁽²⁾
Cover width 176mm						
C1	A	A	A	A	B	B ⁽¹⁾
C2	A	A	B	B	B ⁽¹⁾	NS ⁽²⁾
C3	A	B	B ⁽¹⁾	B ⁽¹⁾	NS ⁽²⁾	NS ⁽²⁾

- NOTE:**
1. Minimum softwood Joint Group JD4.
 2. Obtain alternative fixing recommendations from a registered professional engineer.

CONCEAL FIXED Cladding – on-site Finishing

Colour - Leaving any external timber cladding to weather naturally is not good practice and is not recommended – Western Red Cedar is no exception. The application of an appropriate clear (non film forming) or lightly pigmented coating system should be employed. (www.timbeck.com.au has comprehensive content on natural weathering)

Product - Choose a quality product from a reputable manufacturer and accurately follow their recommendations for preparation, application and coats.

CONCEAL FIXED Cladding – pre-coated Finishing

TIMBECK operates one of the finest "Finishing and Coating" facilities available anywhere in the country. While through this service we can apply virtually any coating product and include every conceivable colour option, we have found that the most popular coating medium and colour range fall within a fairly narrow band.

We have matched these favoured colour preferences to all of our **CONCEAL FIXED** machined profile claddings to provide a readily available range of pre-coated cladding products.

Our standard stock range of pre-coated claddings is factory coated with one application of CUTEK Oil. A factory application of this material ensures that all faces and edges receive the important first coat which greatly contributes to the long term stability of the timber cladding. Cut ends are the only part of the cladding which require on-site attention during the installation phase.

A minimum of one further coat on-site following completion of the cladding installation is recommended. Additional coats may be required depending on the exposure orientation of the surface and also the depth of colour pigmentation that may have been selected.

The table below shows the range of CUTEK oil coating colours which are available in our stock range. All colour samples portrayed have been applied to a random range of Western Red Cedar and the natural characteristics of Cedar's light to dark colour tones can be seen. It is important to acknowledge that this aspect of colour variation is naturally inherent in the application of any translucent finishing material applied over almost any timber specie.



Samples of all colours are readily available and we recommend you obtain these displaying the result of the number of coats of oil which will suit your particular design requirements.

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