

# WeatherClad®

Low maintenance shiplap cladding



WeatherClad®



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WeatherClad® is a wood effect autoclaved cellulose fibre reinforced cement siding board manufactured from Portland cement, cellulose fibres, finely ground sand and water. WeatherClad® is supplied in a wide range of colours.

## Features and benefits

- Natural timber look with random embossed grain
- Weather resistant
- Aesthetically pleasing
- Split pallets available
- Wide range of colours
- Easy to work and fix
- Comprehensive range of colour matched profiles and trims available

## Applications

WeatherClad® is a shiplap cladding system to be applied in the principles of a ventilated rainscreen. WeatherClad® is designed for external applications where superb durability and performance in a range of climates is required.

Supporting framing components must have adequate durability for the intended use and comply with applicable and appropriate national building codes.

**Do not use WeatherClad® in areas where it may remain in contact with standing water.**

## Technical data

Product size:

3660 x 209 x 7.5mm

3600 x 230 x 7.5mm

Type of Test	Value	Tolerance
Bending Strength	7N/mm <sup>2</sup>	+0.1
Min Apparent Density	1320kg/m <sup>3</sup>	+0.01
<b>Dimensional</b>		
a) Width Tolerance, mm		+0.71
b) Length Tolerance, mm		+0.71
c) Thickness Tolerance, mm		+0.26
d) Thickness % of difference		-
e) Straightness, %		+0.04
f) Squareness, %		+0.05
Squareness, mm/m		+0.46

# Colour range

WeatherClad® is available in a wide range of standard colours plus RAL and NCS colours on request:

Standard Colours		
 <b>WC01</b> White RAL 9016	 <b>WC08</b> Sand Yellow S 1510Y	 <b>WC52</b> Pearl RAL 7030
 <b>WC02</b> Beige RAL 1015	 <b>WC10</b> Blue Grey RAL 7031	 <b>WC54</b> Pewter* 6500N
 <b>WC03</b> Grey Brown RAL 1019	 <b>WC14</b> Atlas Brown 4005 Y50R	 <b>WC55</b> Taupe RAL 7006
 <b>WC04</b> Dark Brown RAL 8019	 <b>WC15</b> Dark Grey* RAL 7046	 <b>WC57</b> Sage Green RAL 7034
 <b>WC05</b> Grey* RAL 7047	 <b>WC18</b> Slate Grey* RAL 7024	 <b>WC60</b> Forest Grey RAL 7022
 <b>WC06</b> Grey Green RAL 7009	 <b>WC50</b> Black RAL 9017	 <b>WC61</b> Burnt Red S 5040 Y80R
 <b>WC07</b> Cream White* RAL 9001	 <b>WC51</b> Silver Grey RAL 7035	 <b>WC62</b> Violet Blue RAL 7001

\* Stocked Colours

## Bespoke RAL and NCS Colours

May be subject to minimum order quantities and on extended lead times.

# General fixing instructions to vertical timber battens

Supporting framing components must have adequate durability for the intended use and comply with applicable and appropriate national building codes.

Do not use WeatherClad® in areas where it may remain in contact with standing water

Install WeatherClad® with a minimum 15mm drained and vented cavity to reverse of planks. Timber battens should have a minimum dimension of 38mm deep x 38mm wide and be positioned at maximum span of 600mm. Please observe minimum edge distances for fixings as explained below. Fixings are generally concealed as planks should overlap by approximately 30mm to the plank below. These principles ensure that the system is ventilated to reduce the risk of moisture penetration into the building.

At joints the battens must be wide enough to ensure that plank edges can each be fixed sufficiently considering the minimum plank edge fixing distances.

## Fixings

### Screw fixing

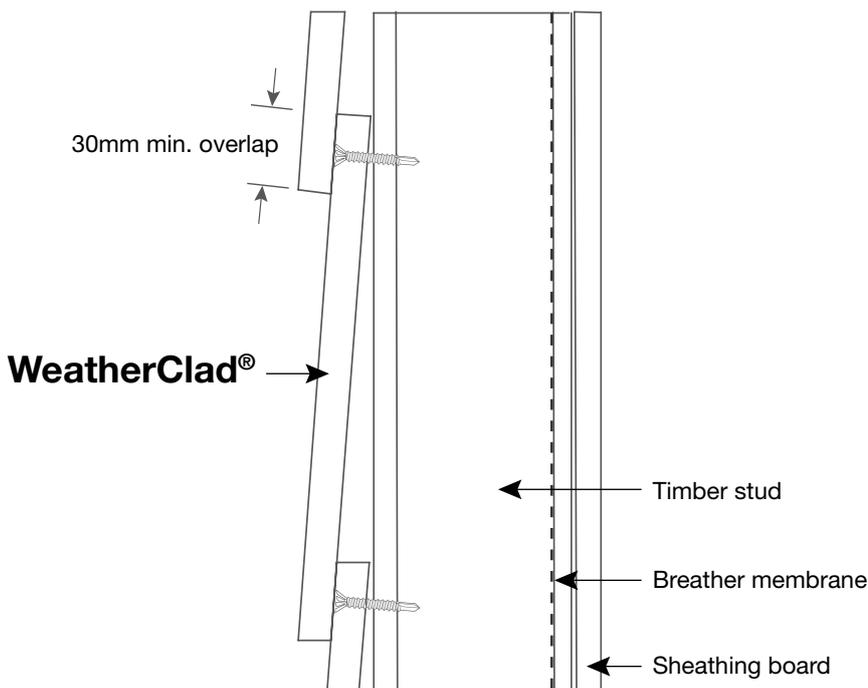
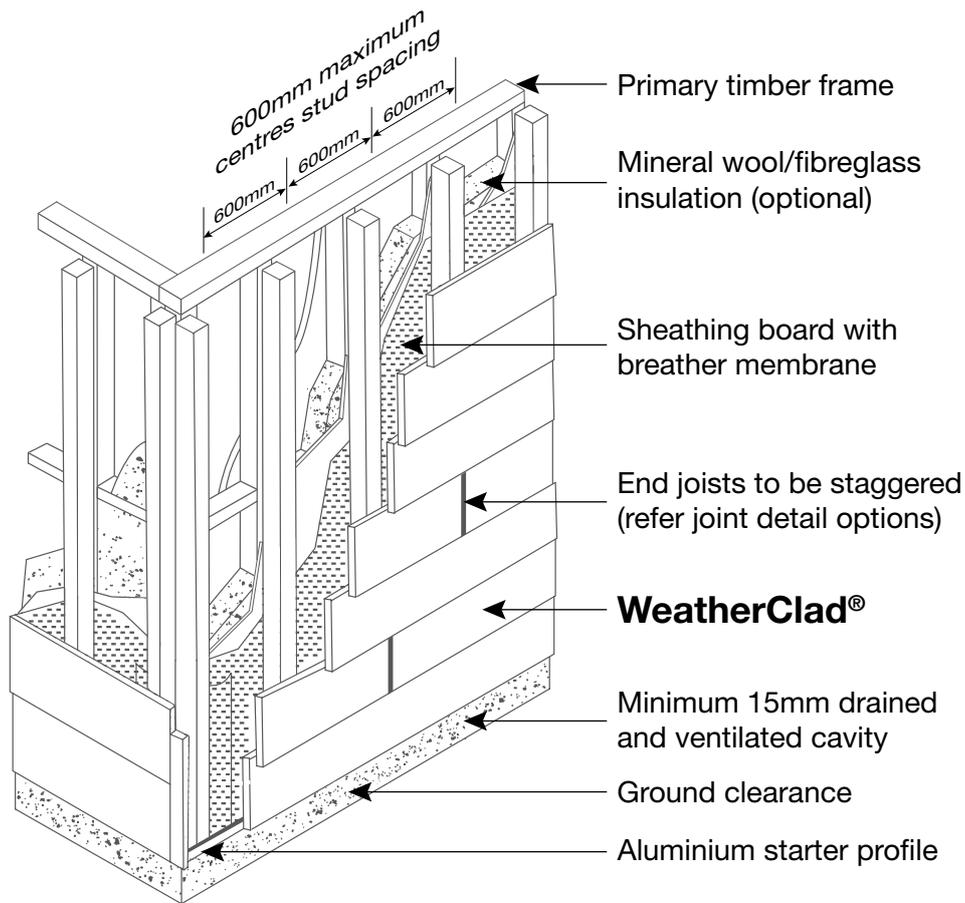
Screw fixing is recommended for the most secure fastening of WeatherClad®. Screws should be self-drilling, stainless steel, wafer head or countersinking with minimum dimensions 4.0 x 45mm. Screws must not infringe closer than 50mm to plank edges without pre-drilling. With pre-drilling fixings may be positioned up to 20mm from plank edges. Fixings should not be closer than 20mm to the top edge of the planks. Care must be taken to ensure that screws are not over driven causing undue stress and potential rupture to the planks.

### Nail fixing

Ensure plank is flush to batten before nailing. Use stainless steel ring shank nails with minimum dimensions of 2.8 x 50mm with 7mm head. Nails must not infringe closer than 50mm to plank edges without pre-drilling. With pre-drilling fixings may be positioned up to 20mm from plank edges. Fixings should not be closer than 20mm to the top edge of the planks. When using pneumatic nail guns trials should be carried out to ensure that the torque setting fixes the planks flush to the timber studs and does not over fire the nail into the plank causing rupture.

### **N.B**

In each of the above methods the top fixing will be visible. Colour matched screws are recommended for the top plank to reduce the visibility of these fixings. Alternatively touch up paint or certain profiles can be used to hide the fixing.



Planks should be installed in horizontal application and with a minimum 30mm overlap to the plank beneath covering the fixing below.

Planks should not be installed within 150mm of building DPC level.

Measures to prevent moisture ingress into the building should be used to the main structure behind the planks (e.g a breather membrane).

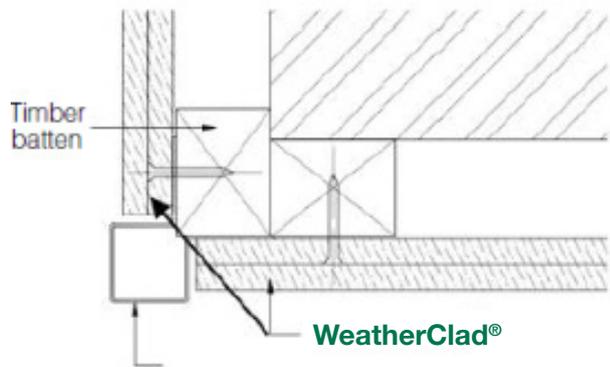
Installation should start at the base of the façade using a base starter profile.

# Joints

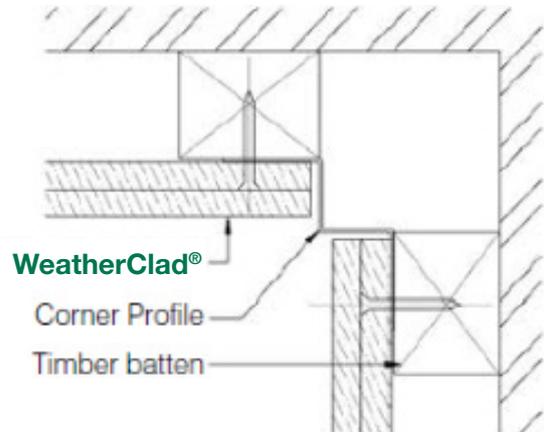
Planks are simply butt jointed. All plank edges should be fixed back to the supporting battens.

# Corners

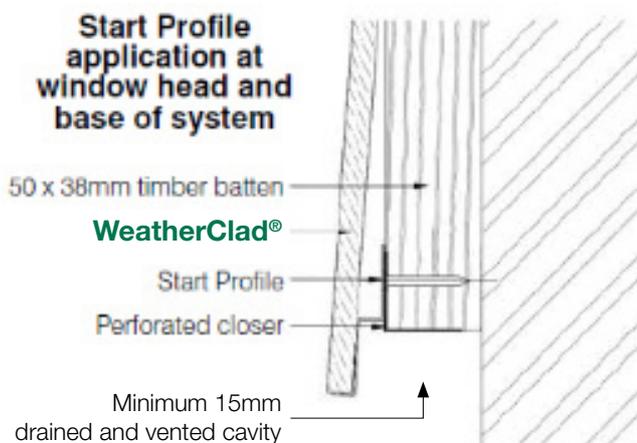
## External corner



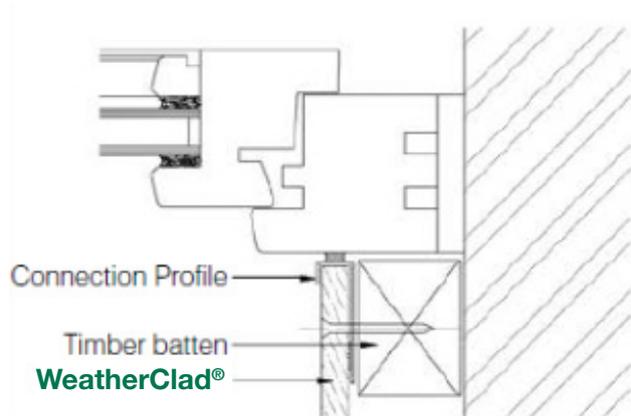
## Internal corner



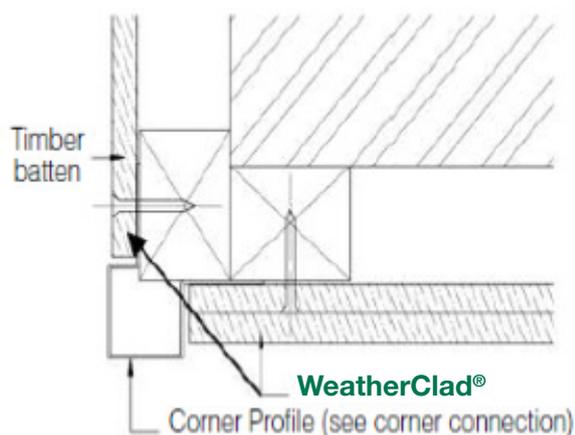
## Base of façade and window heads



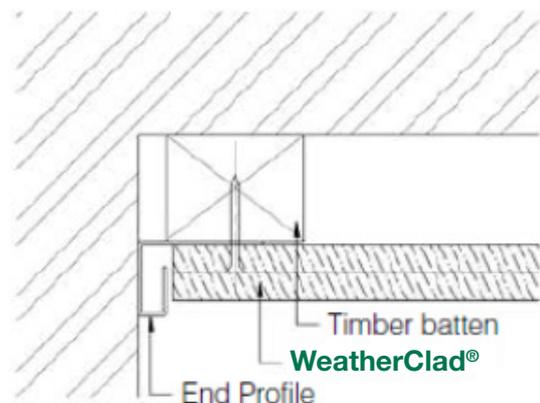
## Window reveal option 1



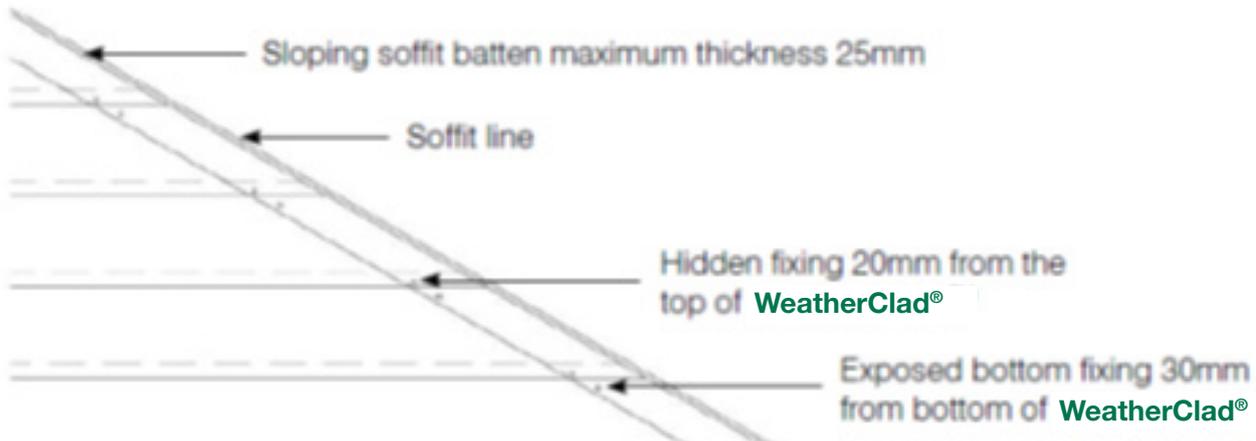
## Window reveal option 2



## End of elevation



## Gable end walls



For maximum stability at gable end the planks must be fixed top and bottom as illustrated.

## Other

Under no circumstances should WeatherClad® be used as the base to secure other exterior elements to the façade.

## Processing

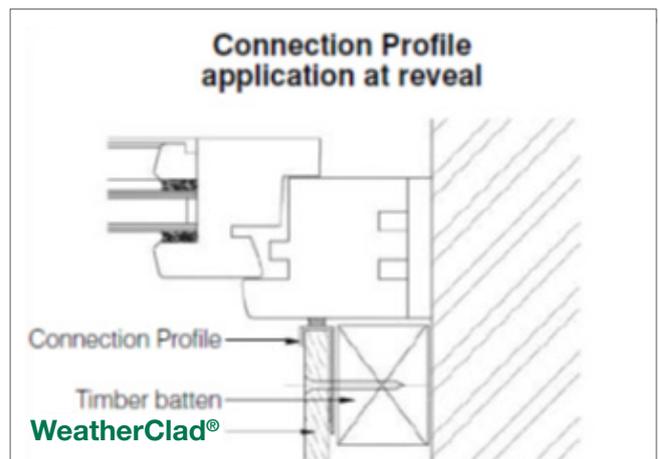
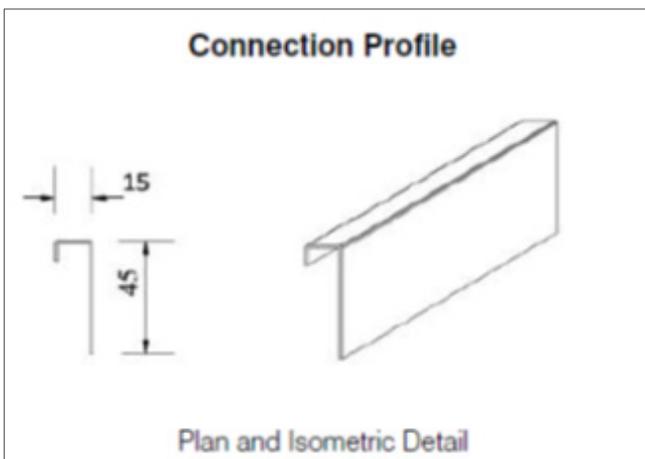
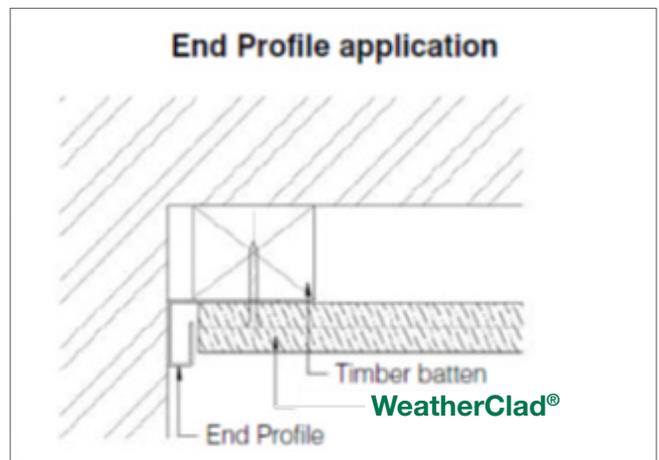
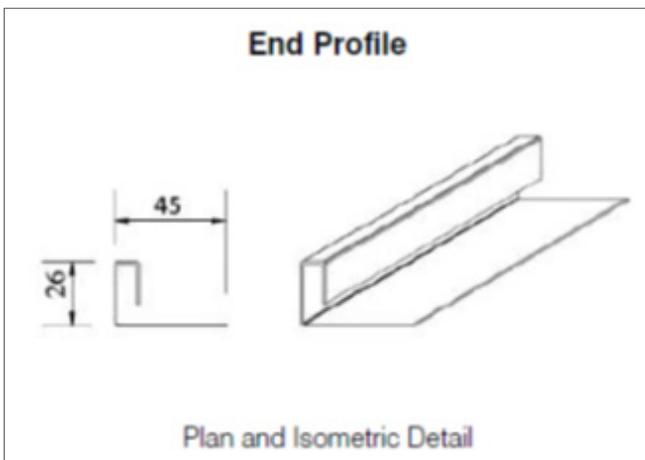
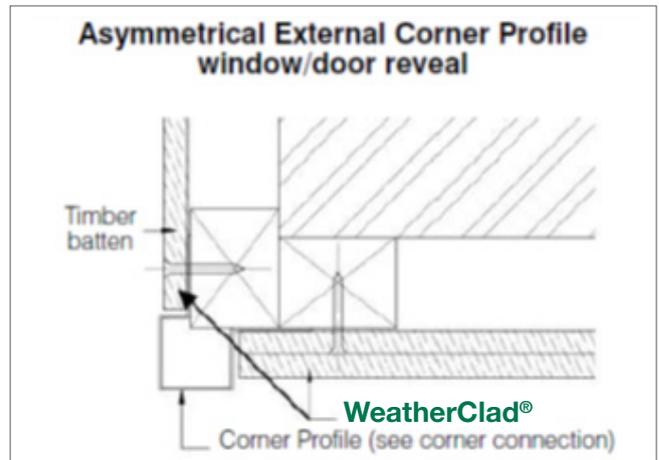
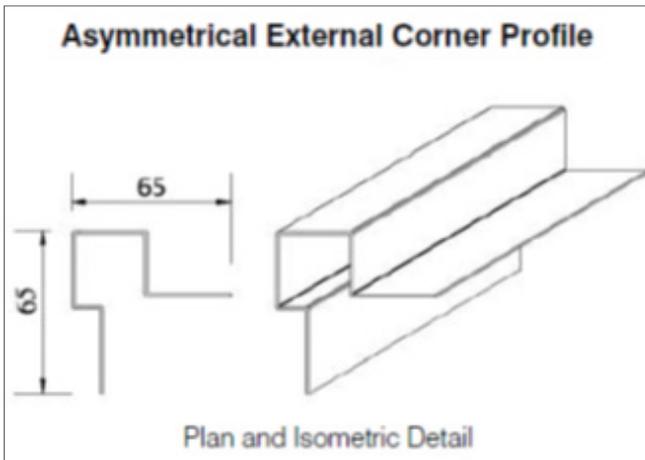
### Manual cutting with a handsaw

Ensure that 'hardened point' saws are selected to maximise quality of cut and longevity of saw blade.

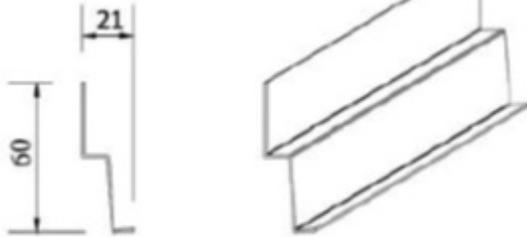
### Power saws

Circular saw is most popular, use tungsten tip or diamond blades. Tungsten tipped blades with around 36 teeth. Diamond dusted blade with 36-44 grit. Recommended blade diameter - 180mm. Cutting to the back of the plank is recommended for the best finish.

# Aluminium Profile General Details

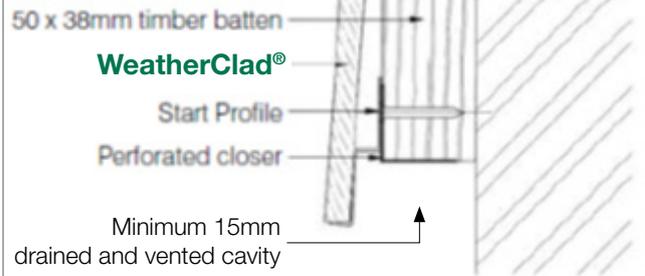


### Start Profile

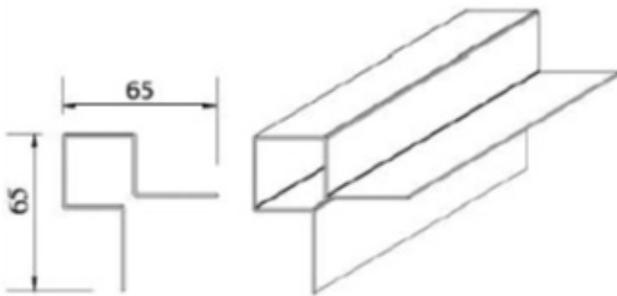


Plan and Isometric Detail

### Start Profile application at window head and base of system

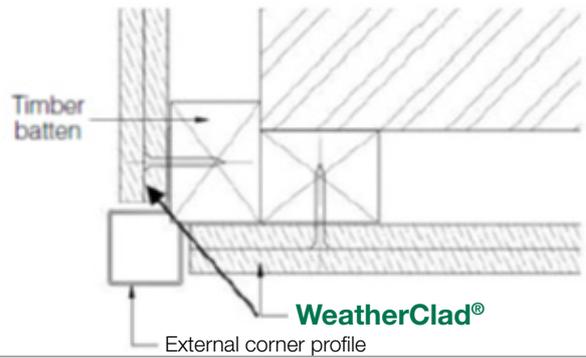


### Symmetrical External Corner Profile

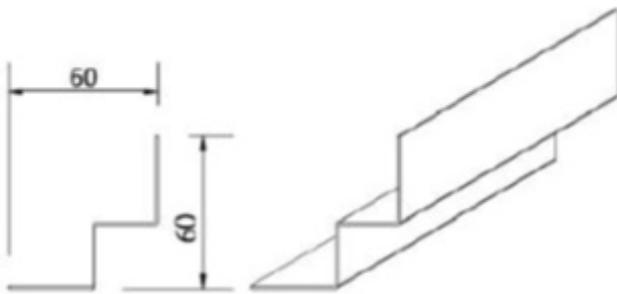


Plan and Isometric Detail

### Symmetrical External Corner Profile application

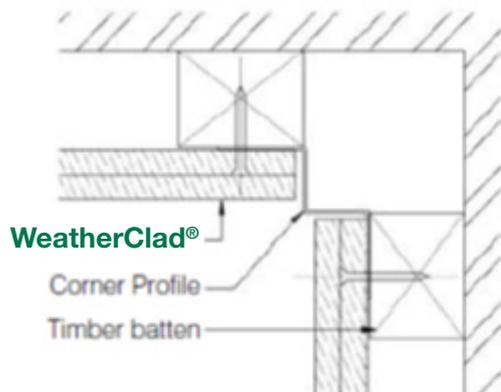


### Internal Corner Profile



Plan and Isometric Detail

### Internal Corner Profile application



## Storage & handling

WeatherClad® is supplied in a fully dry state and is weather protected by plastic sheeting. Do not allow planks to ingress moisture prior to installation. When storing overnight planks should be protected with plastic sheeting or similar and on flat pallets elevated minimum 50mm from ground level. Each pallet is labelled with instructions regarding handling and storage of product. Boards should be carried vertically on their edges when transported on site. Care should be taken when removing the planks from their pallets ensuring that the planks are not dragged which could cause damage to the decorative paint finish.

## Efflorescence Salts

Efflorescence or 'lime bloom' is an occasional phenomenon that can affect cement-based products. It is caused by moisture entering the rear of the product and is no way detrimental to the performance of the product. Water dissolves salts within the product, this salt solution migrates to the substrate's surface, and a salt deposit remains after the water evaporates. Efflorescence is not normally due to faulty materials.

Cement contains an amount of free lime. When water is added, a series of chemical reactions commence which result in the setting and hardening of the cement, which is accompanied by the release of more lime in the form of Calcium Hydroxide.

This salt is sparingly soluble in water and the supersaturated solution deposits crystals on the surface of the WeatherClad®

The prime cause for the onset of efflorescence is the retention of water between the WeatherClad® planks whilst retained in the pack or its installation in very wet conditions. It is recommended that WeatherClad® is stored under cover and clear of the ground prior to being used on site. The polythene wrapper should not be relied on for protection in the open. Care should be taken to prevent excessive moisture running down the rear face of the WeatherClad® during installation. A ventilated cavity behind the WeatherClad® will help to prevent moisture becoming trapped.

The duration of efflorescence is dependent on the quality and type of deposit and upon prevailing conditions. Water, the element that is initially responsible for its appearance, is also largely responsible for its disappearance.

Rainwater being slightly acidic not only dissolves the deposit, but also mechanically removes it by movement down the board. Although it is impossible to state categorically how long efflorescence will take to be removed by wind and rain; a period of suitably bad weather is usually sufficient to restore the WeatherClad® to an even appearance.

Washing with warm water and a soft brush can accelerate its removal; however care should be taken to avoid damaging the painted surface. More stubborn deposits can be removed with 9.5% acetic acid. Allow to react for a few minutes but do not allow drying out, and then wash with plenty of cold water. Repeat procedure if required. Try on a small area to avoid damage.

Note: Colour variation is prevalent in all cementitious products; however this does not in any way impact on the boards performance.





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