

DYNEX
PALLISIDE®

Rusticated Profile Direct Fix

INSTALLATION GUIDE





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1.0 Installation Preparation

1.1 Handling and Storage

On-site Storage

Palliside® should be stored away from areas prone to excess dirt and debris. Cartons should be kept out of the exposed weather. This is to protect the product from damage in case there is surplus material at the end of the job that you would like credited.

Opening Packs

Palliside® weatherboards come in packs of two lengths. To remove weatherboards from the pack, carefully cut through the full length of sleeve (boards in pack face inwards) and lift each weatherboard out.

Safe Handling

Where possible it is recommended that two people carry out handling and fixing of Palliside®. Beware of any awkward movements, straining or twisting while moving long lengths of Palliside®. Packs of board should be lifted, not dragged.

Sunscreen

When handling Palliside® weatherboard and accessories, care should be taken to ensure hands are free from sunscreen residue, which if comes into contact with the board may leave a visible print or mark.

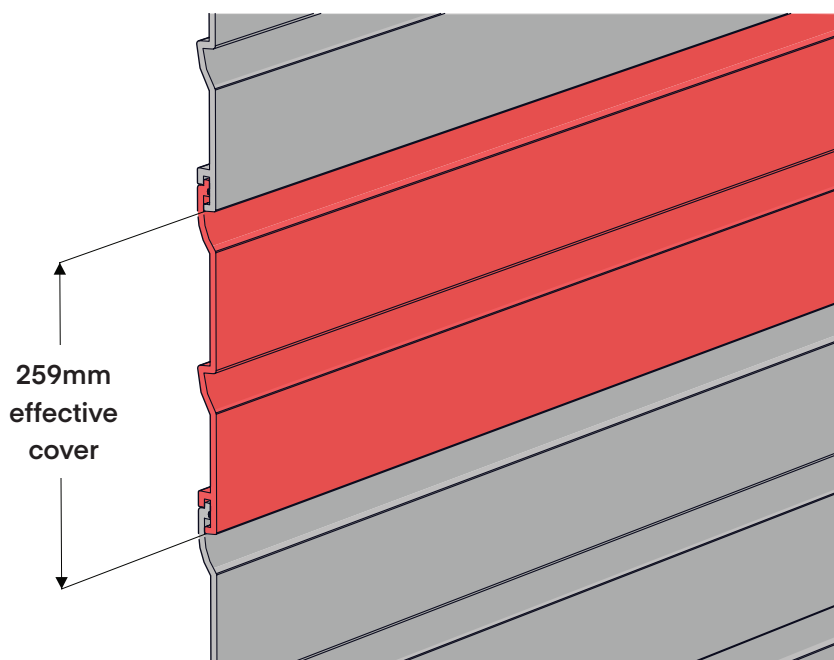
1.2 Tools

Palliside® requires no special tools and can be cut and nailed like timber, using a wide variety of standard building equipment.

1.3 Temperature

Palliside® should be installed between 10°C to 25°C. Avoid fixing Palliside® in temperature extremes.

1.4 Board Cover



Palliside® is a double-profile weatherboard with a total effective cover of 259mm.

Create a timber storey rod to help maintain board alignment.

1.5 Fixings

Fixings for Palliside® - Direct Fix Timber Frame

Fixing Type	Installation Method
<p>Manual Nailing</p>	<p>The HDG 40mm x 2.5mm Palliside® nail must be used (fixed at maximum 600mm centres).</p> <p>The Palliside® nail has been specially designed with a smaller (5mm) head. 5kg boxes of Palliside® nails are available as part of the standard range of accessories. For custom made longer lengths use an Annular Groove type nail.</p>
<p>Impulse Driven Nails</p> <p>A nailing tool such as a Paslode finishing nailer can be used to fix Palliside® weatherboards.</p>	<p>Paslode ND50mm SS304 brads, or equivalent (2 per stud, skewed, at a maximum spacing of 600mm centres). (ITW/Paslode product code B20054).</p>
<p>Screws</p> <p>Palliside® may be fixed using screws.</p>	<p>8-gauge x 32mm hot-dip galvanised Class 4 countersunk square drive wood screws or equivalent. (MSL/Fortress Code SFQX 832).</p>

1.5.1. Fixing in Sea Spray Zones

Due to the Palliside® unique hidden nailing system and anti-capillary groove, there is no requirement to use stainless steel nails when fixing Palliside® in Zone D locations as specified in NZS 3604. The specification of Class 4 fixings in accordance with AS 3566 must be used, or minimum SS304 stainless in the absence of a HDG option. In these locations, any fixings that are to be exposed and not hidden by the weatherboard interlock, must be a minimum SS316 grade.

1.5.2. Microclimatic Conditions

Microclimatic conditions, including geothermal hot spots, industrial contamination and corrosive atmospheres, and contamination from agricultural chemicals or fertilisers can convert mildly corrosive atmosphere into aggressive environments for fasteners. The fixing of Palliside® weatherboards in areas subject to microclimatic conditions requires specific design in accordance with NZS 3604 Paragraph 4.2.4.

1.5.3. Curved Walls

When Palliside® is to be installed to a curved wall, the weatherboard needs to be screwed in place using 8-gauge SS304 grade countersunk square drive screw (MSL/Fortress Code SFQX832) or equivalent. Minimum wall radius 3m.

1.5.4. Steel Frames

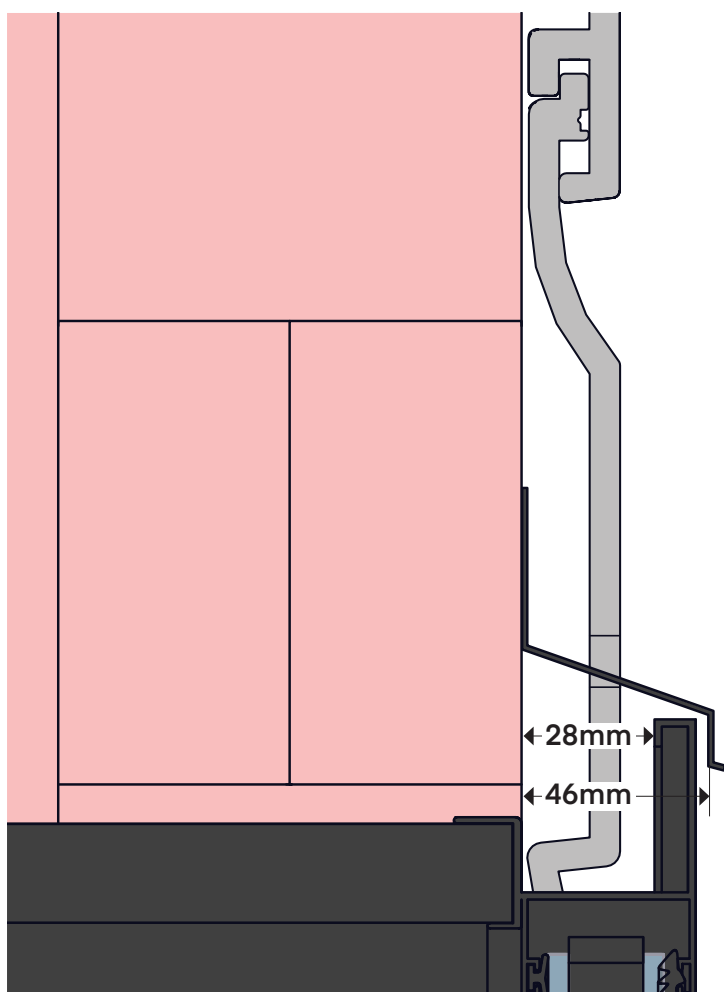
Steel framing must comply with NASH Standard Part Two for buildings or parts of buildings within the scope limitations of NASH Standard Part Two, or to a specific design. For full details refer Palliside® Technical Guide and Steel fixings section of this document.

2.0 Installation Procedure

Pre-line Checklist

- › The building underlay is lapped and fixed correctly
- › Flashing tape has been applied to the base of the sill and to all corners of window and door openings
- › Timber framing is straight and studs are inline

2.1 Critical Joinery Set-out



Palliside® finishes require strict adherence to joinery set-out to take into consideration the effect of things like the build-up of flashing tape at corners of openings.

28mm min. distance between building wrap to inside of lapped joinery.

46mm min. distance between building wrap to inside of head flashing flange.

Refer to Palliside® Technical Guide and detail DF-01-R for more information.

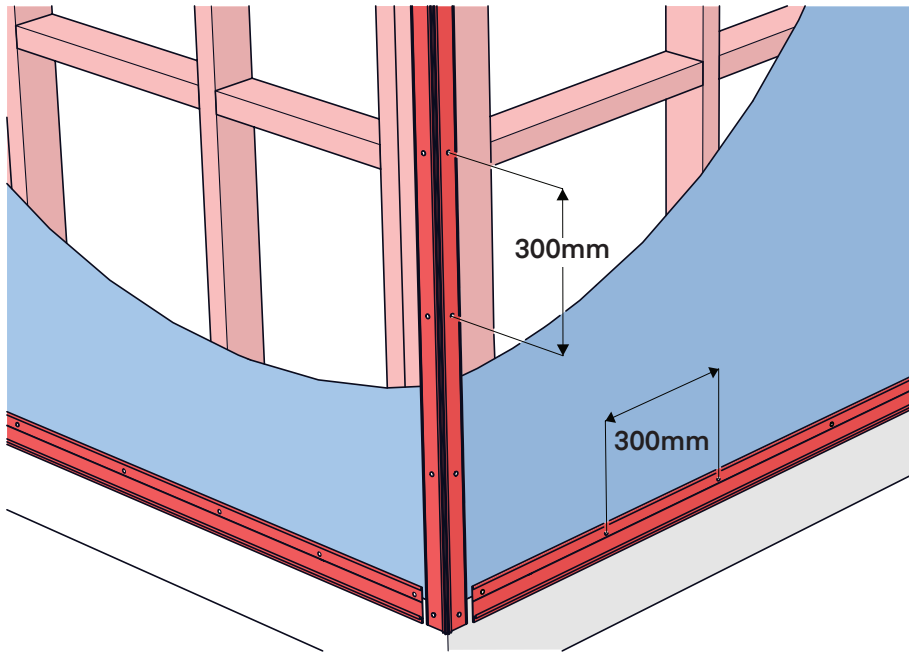
Aluminium joinery and associated head flashings must be installed by the building contractor in accordance with the Palliside® Technical Literature.

A 7.5-10 mm nominal gap must be left between the joinery reveal and the wall framing so a PEF rod and air seal can be installed after the joinery has been secured in place.

2.2 Installation of Base Accessories and Trims

Prior to the installation of weatherboards, all base accessories need to be fixed in place.

Base accessories include all starting pieces, all corner base pieces, and the two-part jointer base. Boxed corner finishes also need to be installed prior to the weatherboard.

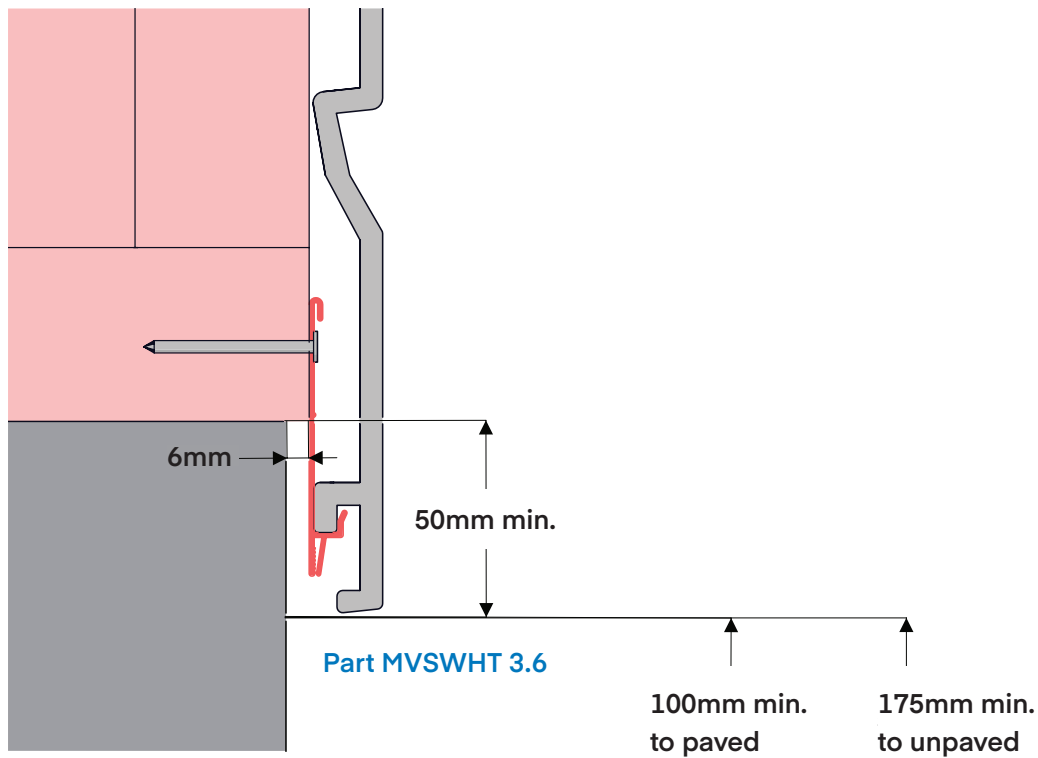


Note:

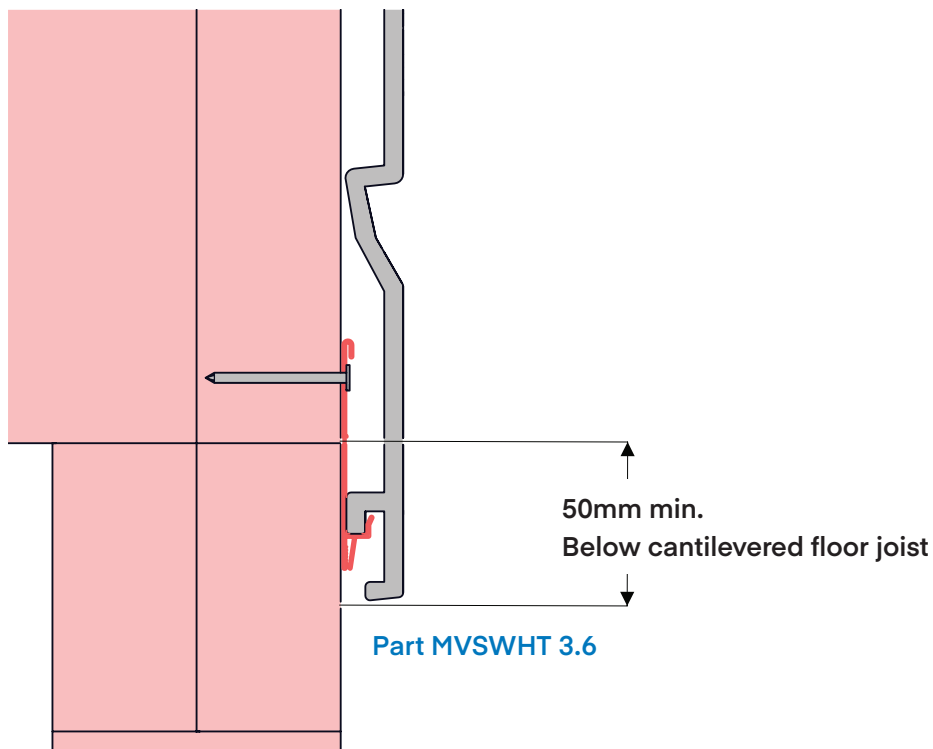
- › Fix all base accessories at 300mm centres
- › Ensure all horizontal starting options are level (crucial with starter strip)
- › Ensure all horizontal base accessories are left slightly short of corner option base pieces and vertical trims (not overlapped)
- › Mitre trims where required

Palliside® starter strip should be installed with a minimum 50mm weatherboard overhang in accordance with requirements of the NZBC. Starter strip cannot be used when starting with part board, or along raked areas.

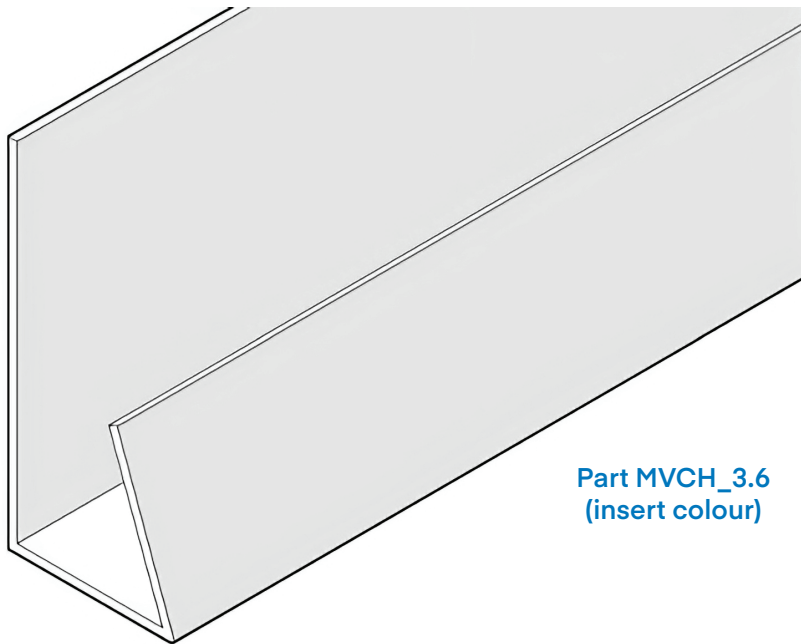
2.2.1 Starter Strip Concrete Foundation



2.2.2 Starter Strip Timber Floor



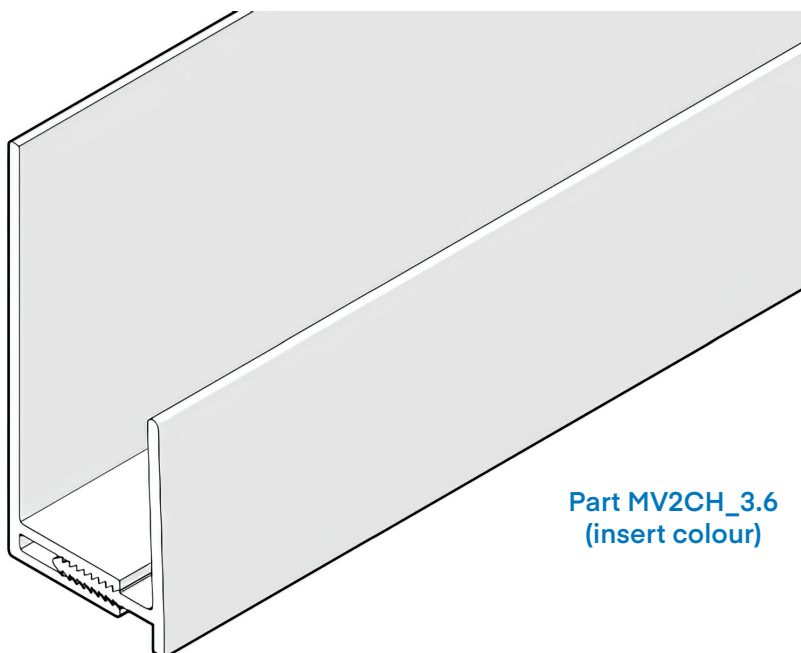
2.2.3. One Part Trim



Part MVCH_3.6
(insert colour)

The one-part channel can be used as a universal starting option, around the apron of top storeys that contain raked/sloped rooflines and/or different starting heights or as a vertical trim abutting another cladding. When installed horizontally, 5mm drain holes must be drilled at maximum 600mm centres.

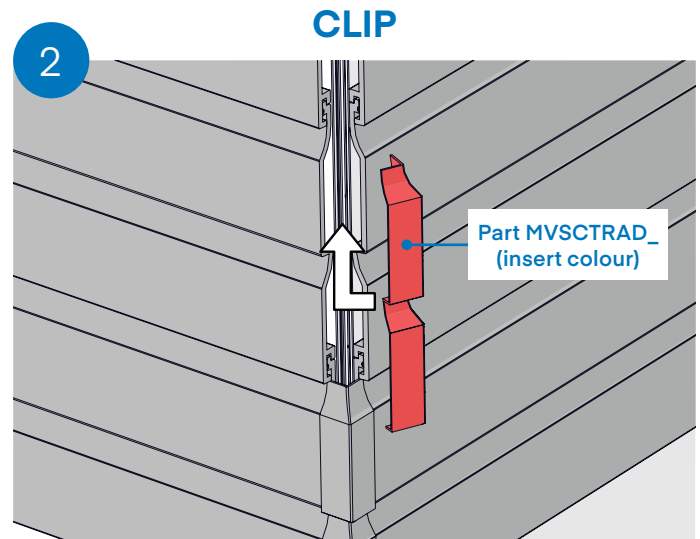
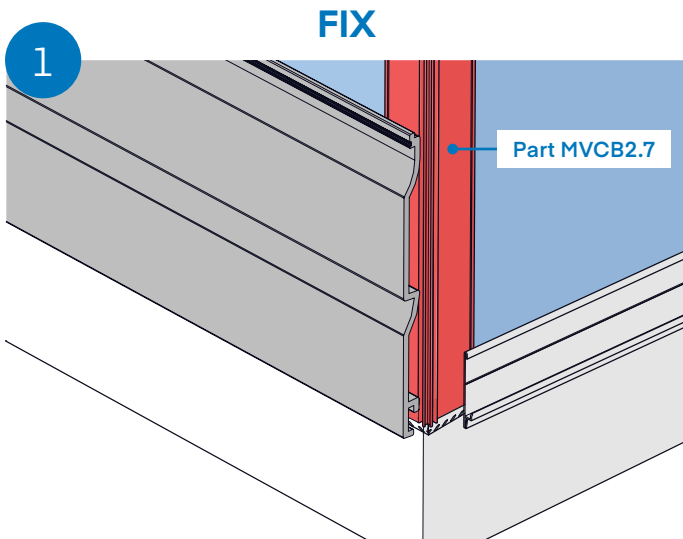
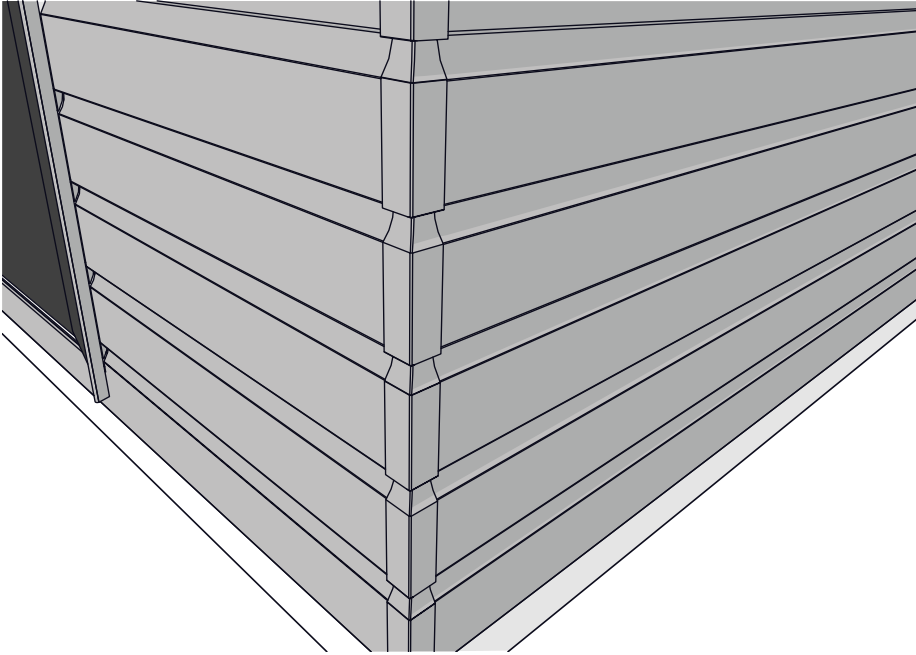
2.2.4. Two Part Channel



Part MV2CH_3.6
(insert colour)

The two-part channel trim can be used as a universal finishing option for both gable ends and horizontal finishes where the weatherboard does not finish on a scallop, around the apron of top storeys that contain raked/sloped rooflines and/or different starting heights or as a vertical trim abutting another cladding providing that the spine of the flashing is not visible.

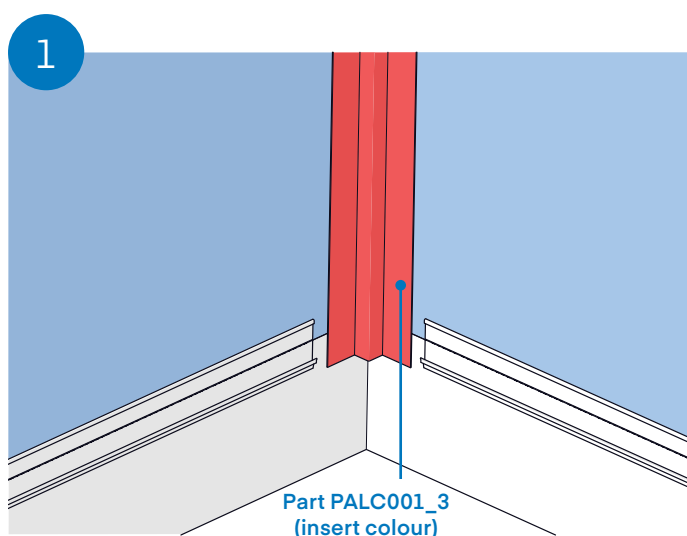
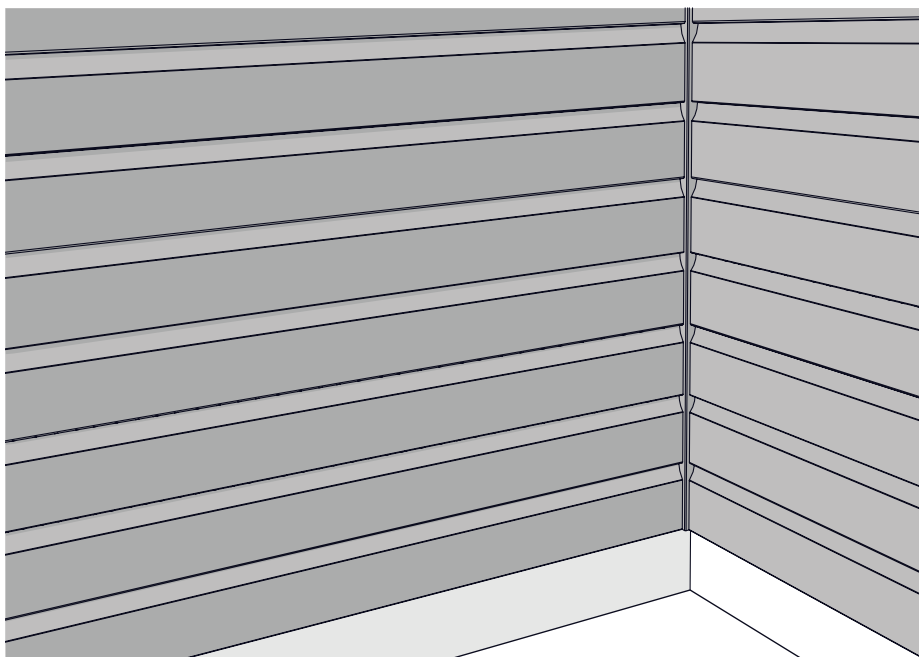
2.3 External Corner Soaker



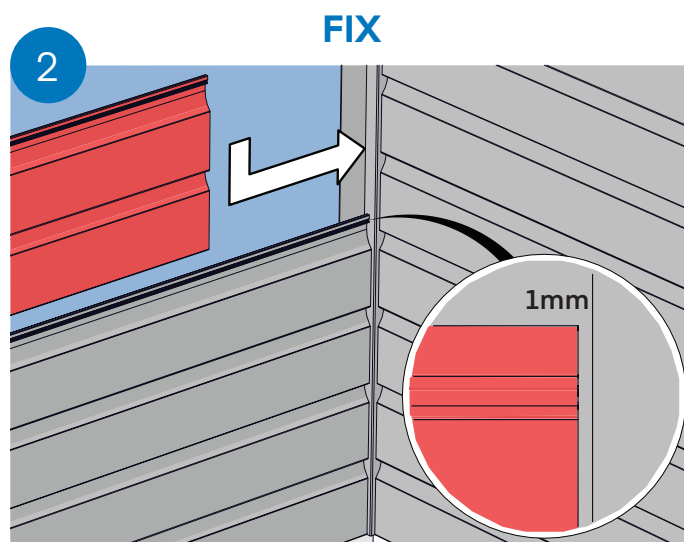
- › Measure and cut base piece to full length
- › Fix corner soaker base prior to board
- › Install weatherboards to ridge on base
- › When joining a two-piece option, stagger the base and cap join

- › After fixing boards, clip corner soaker
- › Ensure that the soakers line up tidily and are pushed up firmly
- › No solvent or sealant is required

2.4 Internal Corner



- › Ensure the internal corner flashing is straight and true the full length of the corner



- › Cut weatherboards cleanly and butt to the edge of the internal corner, fixing through board, flashing and in to cavity batten
- › During install, check to make sure board courses line up on both sides of the corner

Note:

If a join is required at an internal corner, butt two one-part internal corner flashings together using a dowel or plug fashioned from H3.1 treated timber. Apply adhesive tape along the join behind the flashing ensuring the tape is pressed down firmly.

Where possible, position the join above eye height.

2.5 Non-Standard and 135° Corners

2.5.1. Custom Corners

Application specific corners can be manufactured by others and used with Palliside®. A drawing is available showing how to provide custom made back flashings for non-standard corners (refer CAD detail DF-25-R).

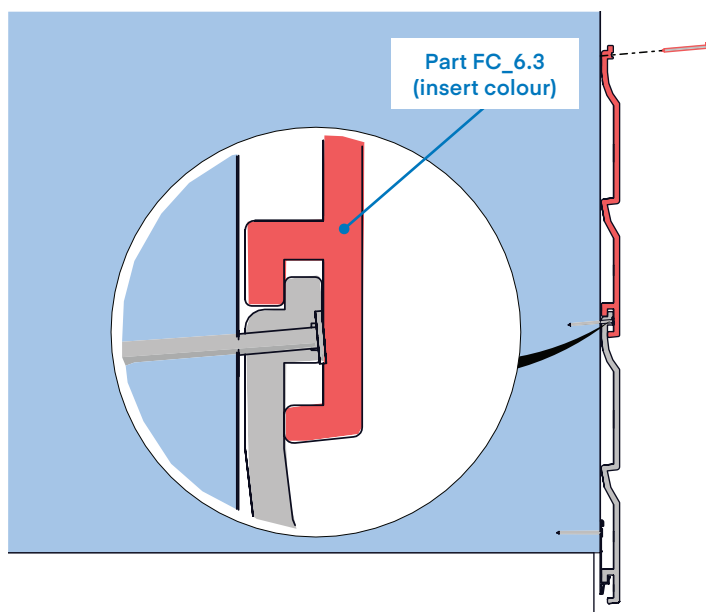
2.5.2. 135° Corners

A two-part corner accessory is available for 135° corners. This accessory can be reversed to be used on both internal and external corners (refer CAD detail DF-37).

2.6 Weatherboard Installation

Once starting heights have been confirmed, building underlay correctly lapped and fixed, cavity battens installed and base accessories have been fixed in place, weatherboards can be installed.

Palliside® weatherboards are double profile and installed bottom up.



Note:

Fix through weatherboard nailing groove angling fixing downward to avoid splitting top of board leading to board creep.

Hit fixing home firmly but do not over nail.

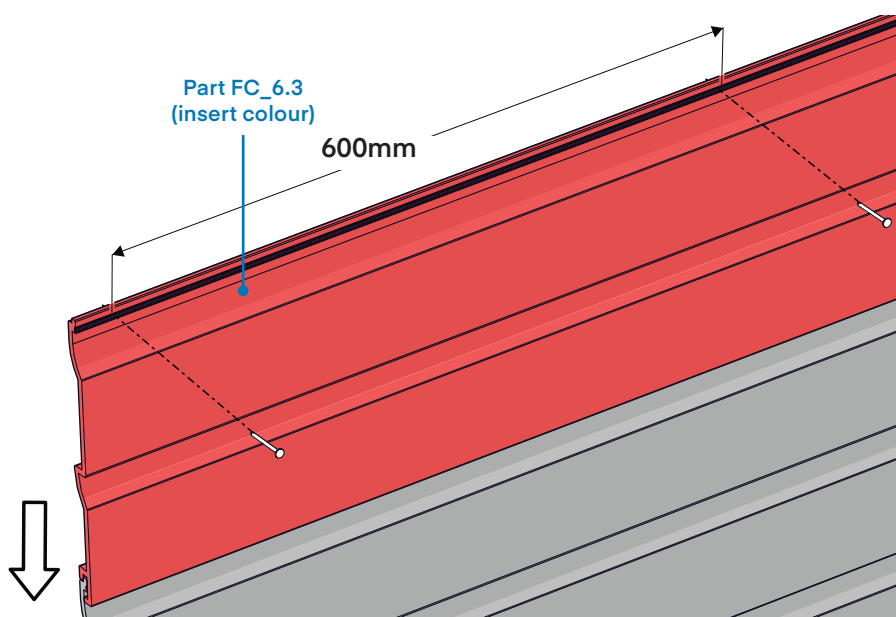
Push next board firmly down and continue fixing. It is critical that boards are aligned and there is no creep at all between boards.

Note:

Nail from one end of the board to the other. Or from the middle outwards.

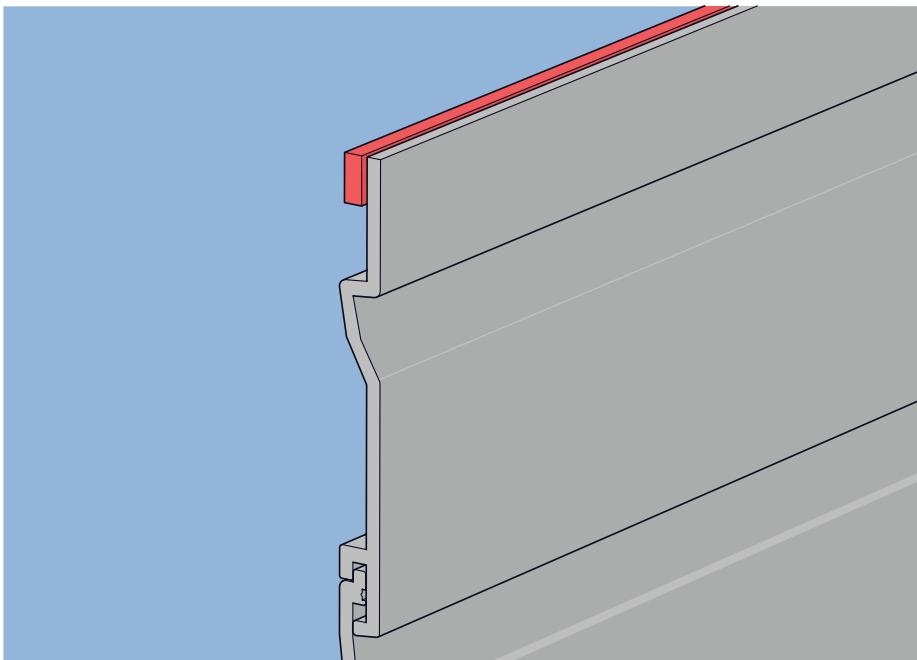
Nail at maximum 600mm centres leaving a 5mm gap between weatherboards (if using the flat soaker jointer).

During installation, regularly check boards are correctly aligned and level.



To Assist with interlocking of weatherboards, lay a timber off-cut on the upper edge of the board and gently tap into place with a hammer. Do not hit directly down on top of the weatherboard.

2.6.1. Packing Out Cut Weatherboard



Note:

When starting or finishing on a part board or where a part board finishes below joinery, pack out with timber packers.

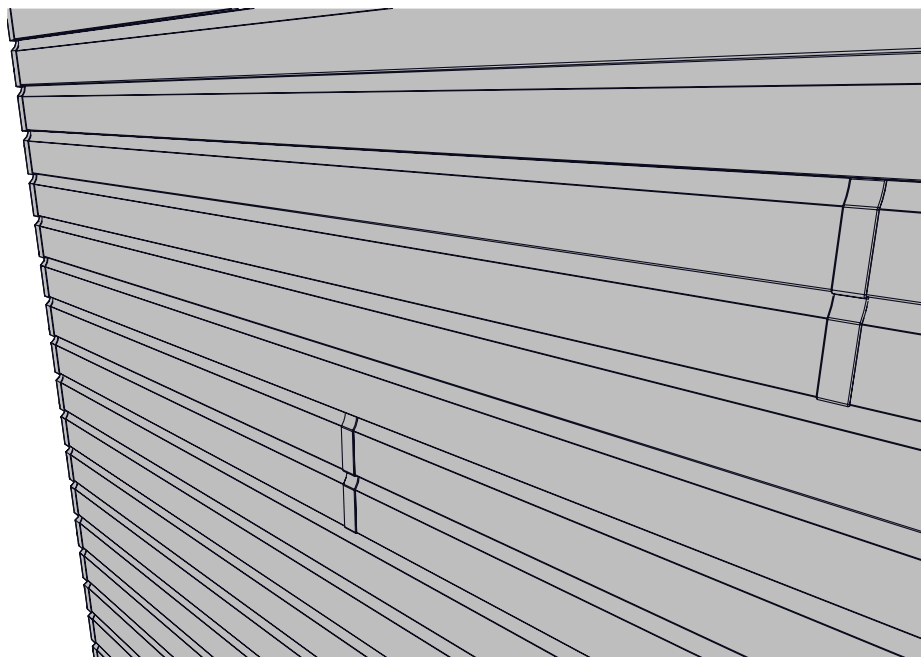
Any horizontal cut areas will need to be nailed in place at a maximum 600mm centres. Nail these areas so that the fixing is not visible (e.g. covered by joinery or trim).

2.7 Jointing Options

Flat soakers, to suit the double profile weatherboard, as well as full length jointers, are available for finishing joints in weatherboard. Flat soakers can be installed off-stud, while full length jointers require installation to stud.

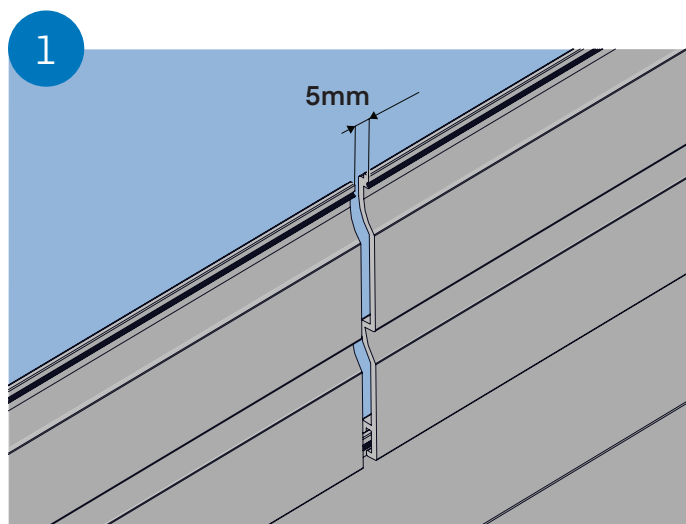
2.7.1 Moulded Flat Soakers

Where possible, join shorter weatherboard lengths on a less prominent section of the building. There is no base piece required for this option.



Note:

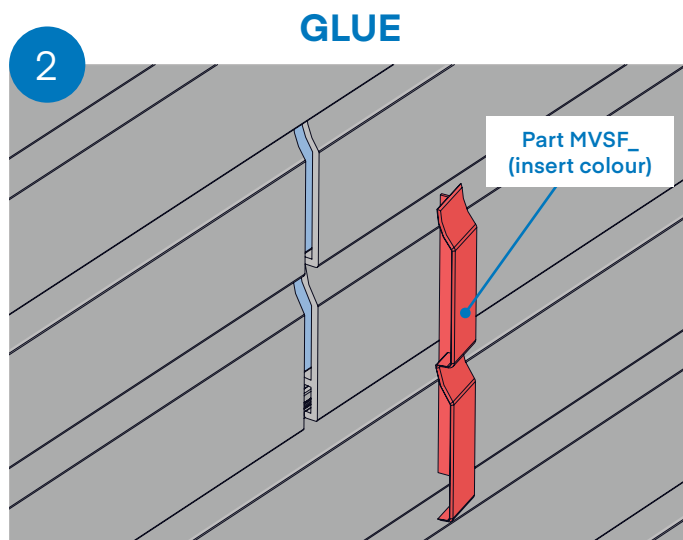
For direct fix applications, the moulded flat soaker option is only suitable for elevations measuring up to 6 points on the building envelope risk matrix. To use the flat soaker option on elevations calculated between 7 and 20 points, Palliside® must be installed over a drained cavity.



Note:

The flat soaker can be inserted after all weatherboards are installed.

- › Leave a 5mm gap when installing weatherboard for thermal movement



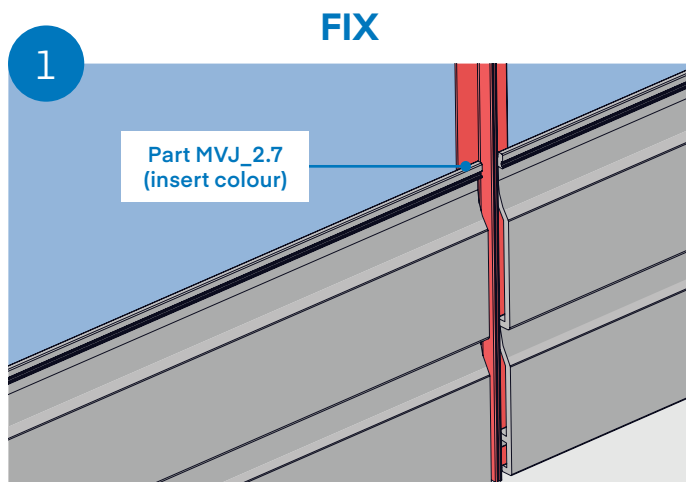
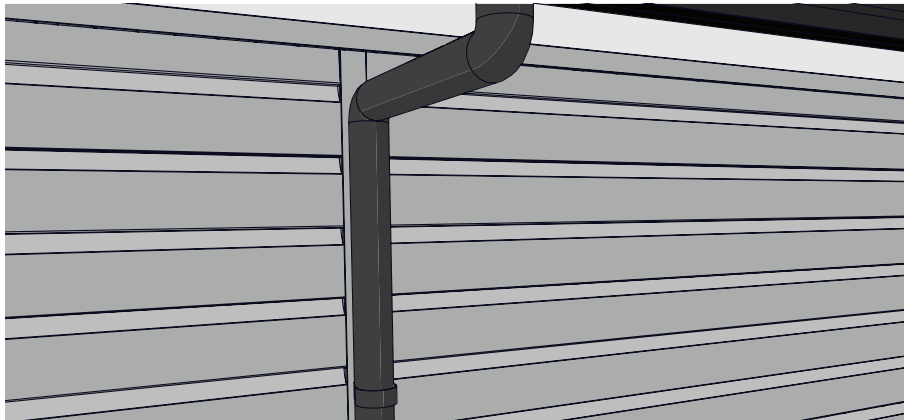
- › Apply solvent to one side of the back fin of the flat soaker and push in place wiping away excess solvent

Note:

Do not glue soaker to both boards.

2.7.2 Two-Part Joiner

Where possible this jointing option can be strategically placed and covered by a downpipe or similar, and must be installed on a stud.

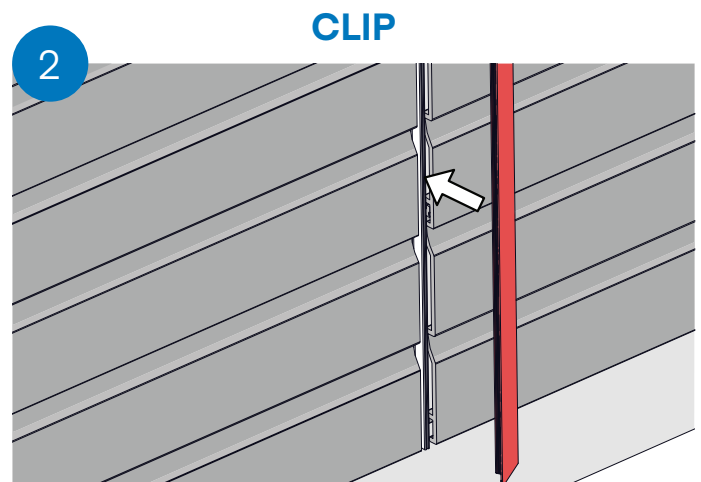


FIX

1

Part MVJ_2.7
(insert colour)

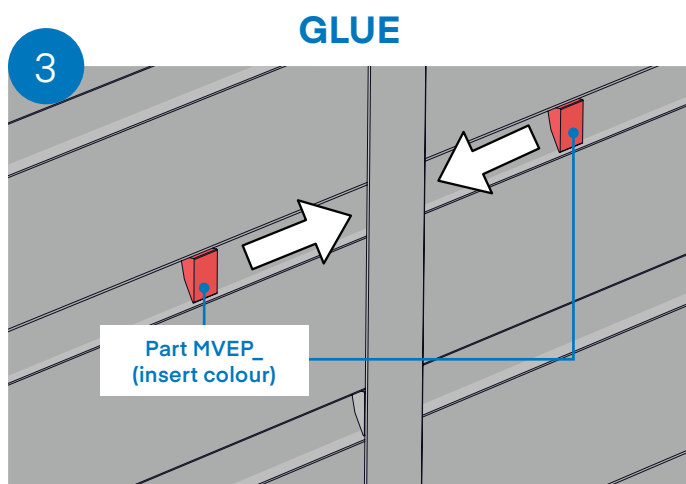
- › Measure and cut female base to fit
- › Fix base piece prior to installation of weatherboards
- › Fix weatherboards 5mm short of the spine of the base piece.



CLIP

2

- › Measure and cut cap piece to fit
- › Clip cap firmly in place

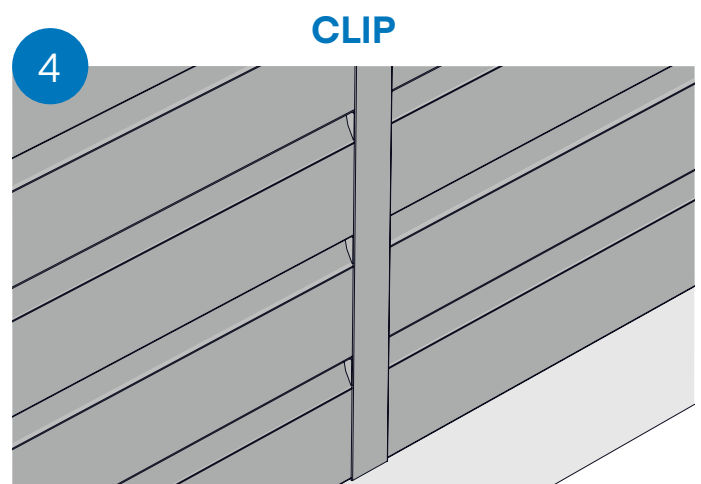


GLUE

3

Part MVEP_
(insert colour)

- › Apply solvent to weatherboard face within the gap where end plug is to be placed
- › Insert moulded end plugs to be flush with male cap piece



CLIP

4

Joiner shown completed with end plugs installed both sides of joiner cap.

Note: Do not apply solvent to the end plug itself.

2.8 Installation at Joinery

Note:

Windows should not be installed into the openings until the weatherboard has been fixed to sill height with sill tray and jamb base flashings fixed correctly in place.

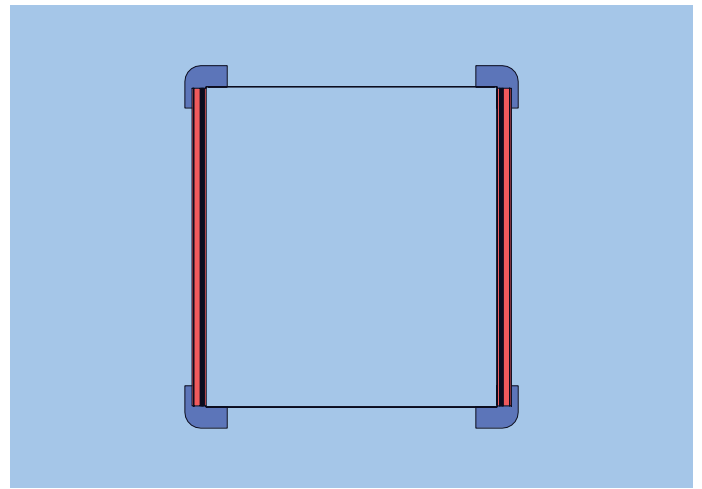
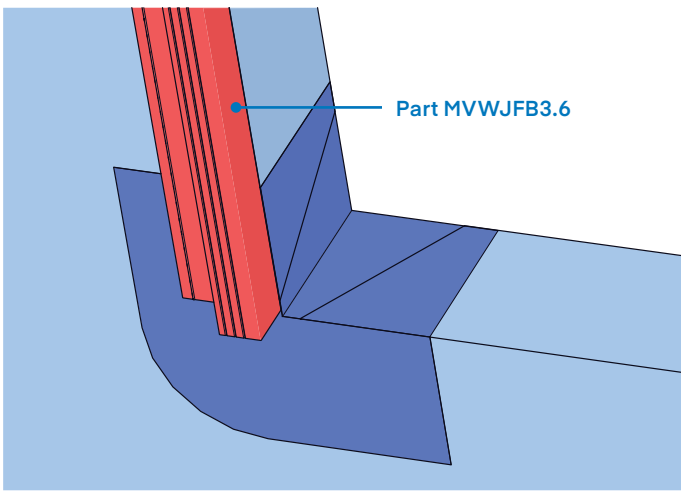
Joinery may be tacked in place and removed for weatherboard installation before final fixing.

All aluminium joinery should be compliant with the parameters outlined in the Palliside® Technical Guide.

2.8.1 Installation of Jamb Flashing Base

The vertical jamb flashing base is fixed in place either side of openings prior to the installation of weatherboards and joinery.

FIX

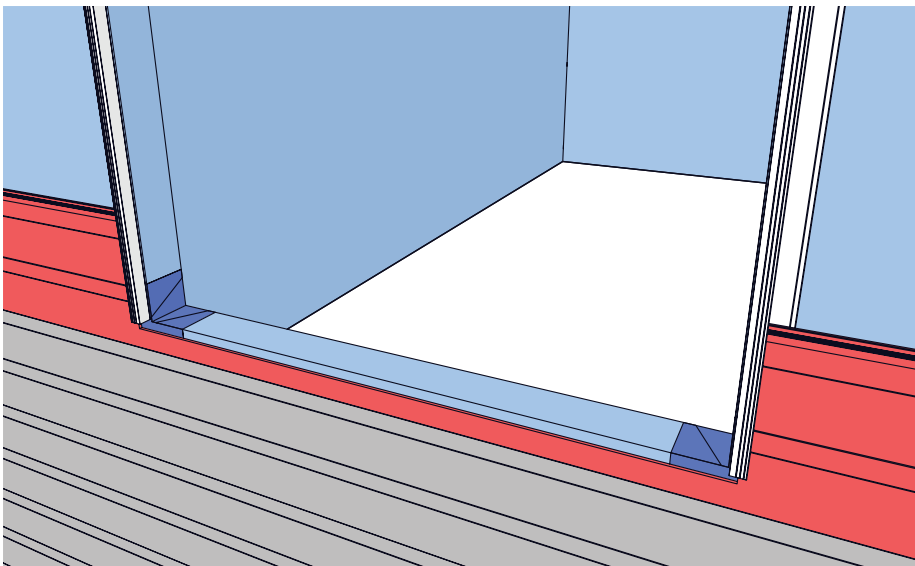


- › Cut jamb flashing base to match the height of opening
- › Fix with spine flush against the side of opening
- › Repeat for each side of opening
- › Do not remove any tear off tabs from jamb flash base at this stage

2.8.2 Installing Weatherboard to Sill height

Carry out installation of weatherboard from the bottom up, cutting the board around the opening to suit. Continue weatherboard installation up to head flashing level.

FIX



Note:

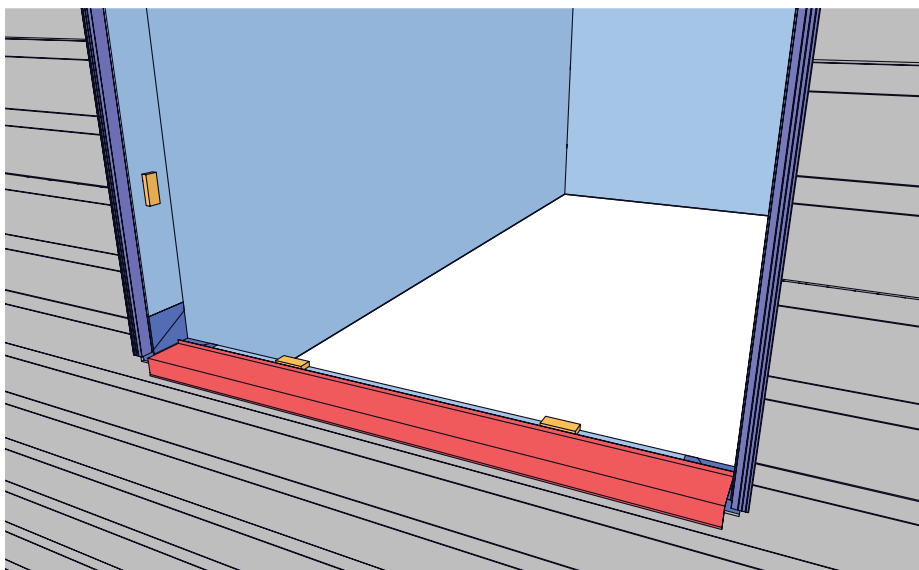
Ensure the cut of the weatherboard is within 10mm of top of trimmer plate (but no higher).

Pack out weatherboard and fix at 600mm centres.

2.8.3 Installation of Sill Pan

A Standard sill pan with an 8mm upstand at the back, supplied by others, is required for all direct fix installations. This is to be installed at the base of all openings prior to the installation of joinery and after weatherboards have been installed to at least sill level.

FIX



Note:

Cut sill pan to suit width of opening allowing for the fabrication of stop ends at either end of the sill pan (lapped with the upstand).

Run a bead of sealant behind front edge of sill pan against the weatherboard.

Fit the sill pan in place and fix. Refer detail DF-04-R.

Joinery packers shown.

2.8.4 Installation of Joinery

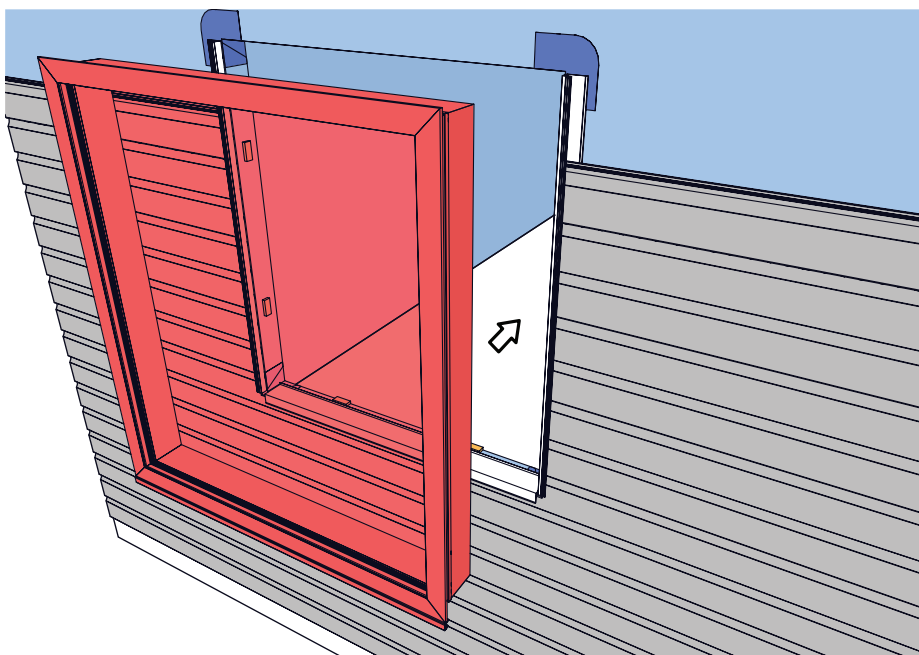
Note:

At this point measure the width of the joinery ensuring a minimum flange cover of 10mm either side of the opening once the joinery is installed.

Where two windows closely adjoin each other, it may be necessary to tack windows in place and remove at least one while the weatherboard is installed to the head flashing height.

Place joinery into the opening, packing, and fix in place ensuring that the joinery is level.

FIX



Note:

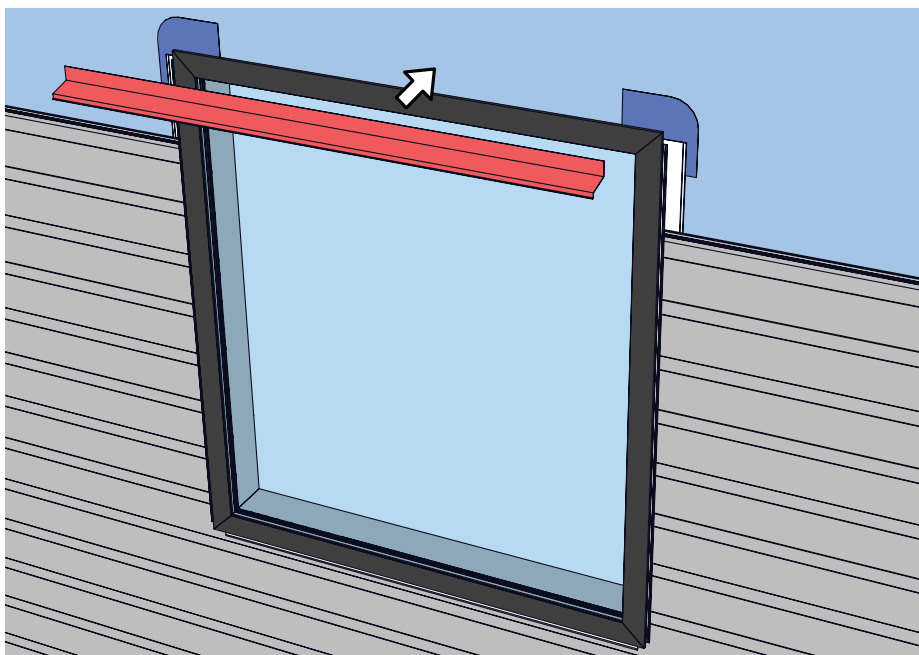
Minimum 7.5mm gap (10mm at base) is maintained between joinery reveal and the opening.

Minimum 10mm flange cover over the jamb flashing base either side (marker line on the face of the jamb flashing base indicates min. cover), 8mm at the sill.

2.8.5 Installation of Head Flashing

Fix the head flashing above the joinery so that it rests on the flange of the aluminium, central to the window.

FIX

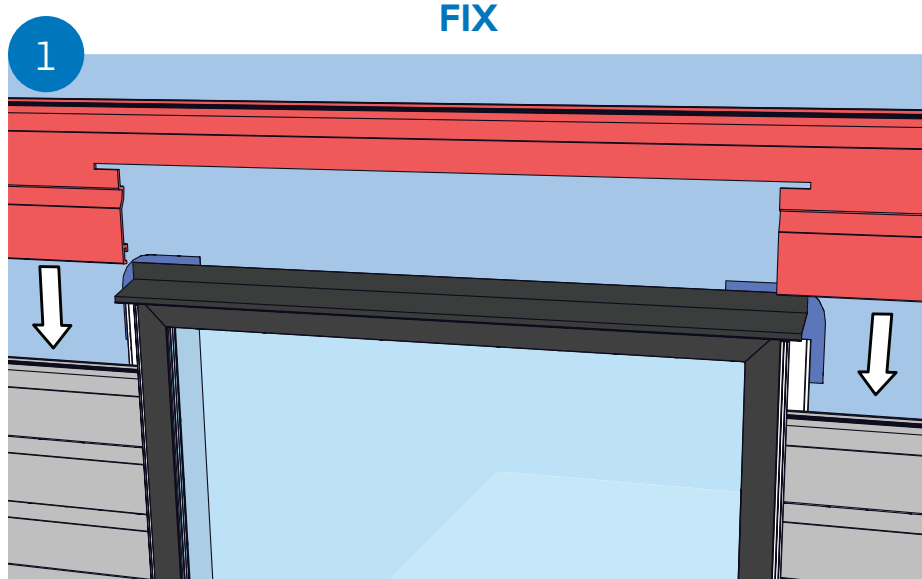


Note:

Head flashing carried min. 30mm past joinery each side to allow for scribes. Nail at 300mm centres and cover width with flashing tape at building wrap. Refer detail DF-01-R.

2.8.6 Part Weatherboard Above Joinery

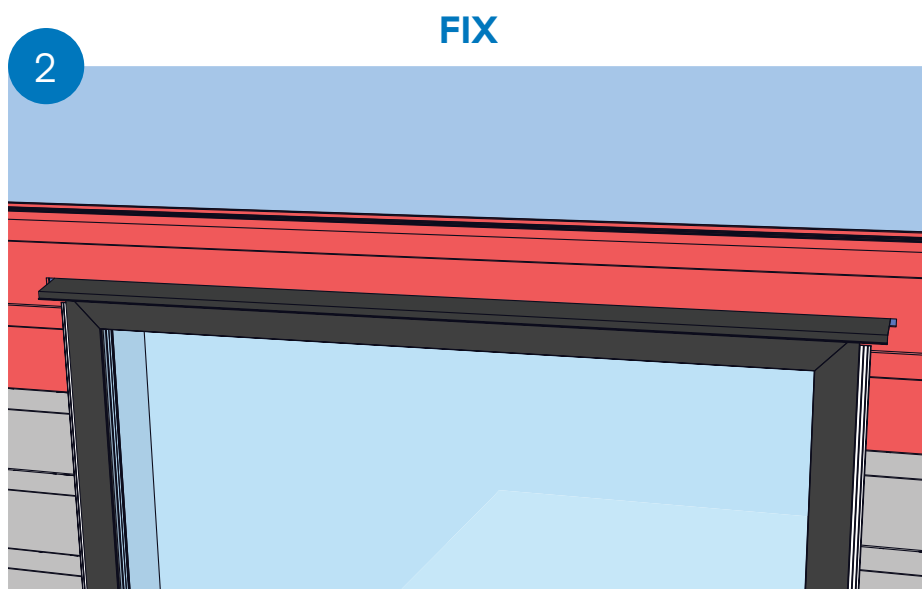
If the head flashing is located within the double board profile, measure where the head flashing is going to penetrate the face of the weatherboard. Cut the weatherboard out to suit, taking care to ensure that the horizontal cut for the head flashing is neatly finished and will allow the head flashing to sit tidily.



Note:

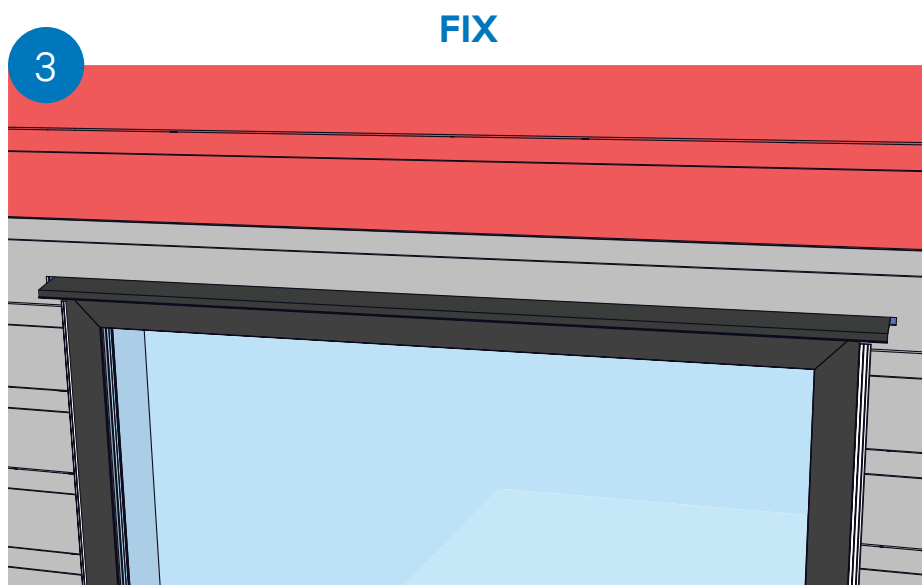
Nail packers behind cut weatherboard, above the head flashing, evenly spaced at maximum 600mm centres.

Angle head flashing cut so that the back of the board is not visible once installed.



Note:

Install weatherboard around head flashing ensuring fully engaged over previous weatherboard and in to jamb flash base.



Note:

Apply sealant at either end of the head flashing to form a head flashing stop end.

Continue installation of weatherboard above head flashing.

2.8.7 Full Weatherboard Above Joinery

If it works out that a full weatherboard profile finishes in line with the head flashing, it will be necessary to cut a slot into the weatherboard either side of the opening to allow for the head flashing. Trim the nailing groove from a weatherboard off-cut, (e.g., taken from the cut around the base of the opening) and fix at the head to support the next board.

FIX

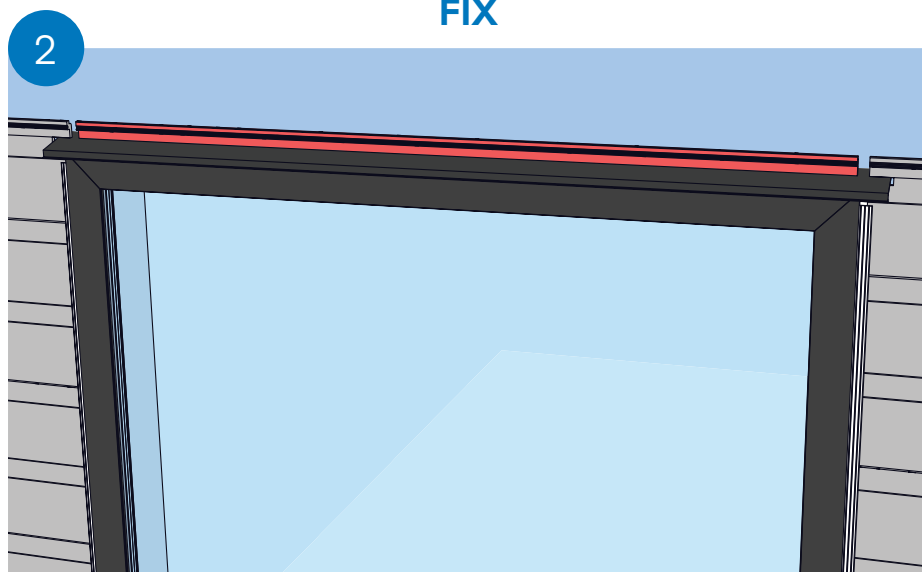


Note:

Install weatherboard each side of head flashing ensuring fully engaged over previous weatherboard and in to jamb flash base.

Angle head flashing cut so that the back of the board is not visible once installed.

FIX

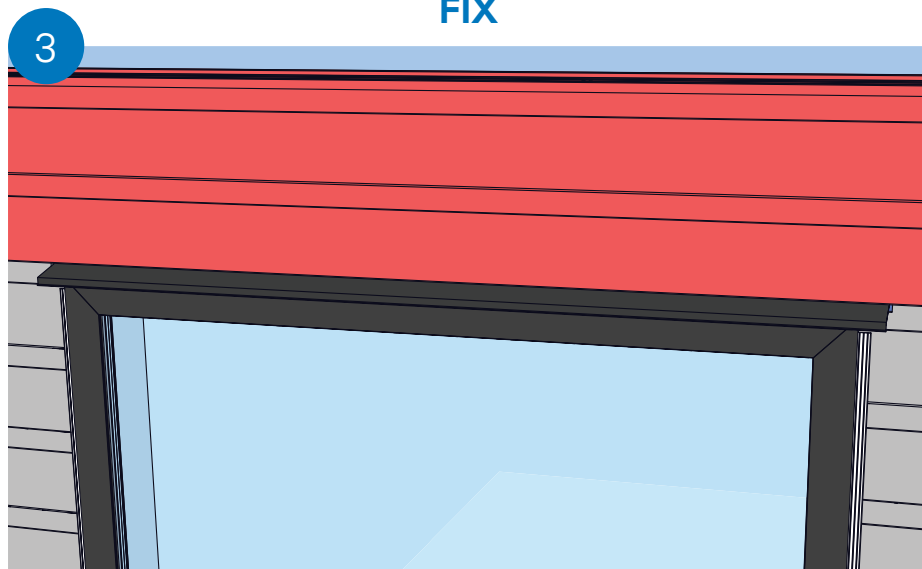


Note:

Fix trimmed nailing groove strip across base of head flashing level with the nailing groove either side of the opening.

Ensure only the nailing groove portion of the board is used so not visible once the next board is installed.

FIX



Note:

Apply sealant at either end of the head flashing to form a head flashing stop end.

Continue installation of weatherboard above head flashing.

2.8.8 Securing Cut Weatherboard Above Head Flashing

In a part board above head flashing application, it is necessary to fix the cut weatherboard in place above the head flashing.

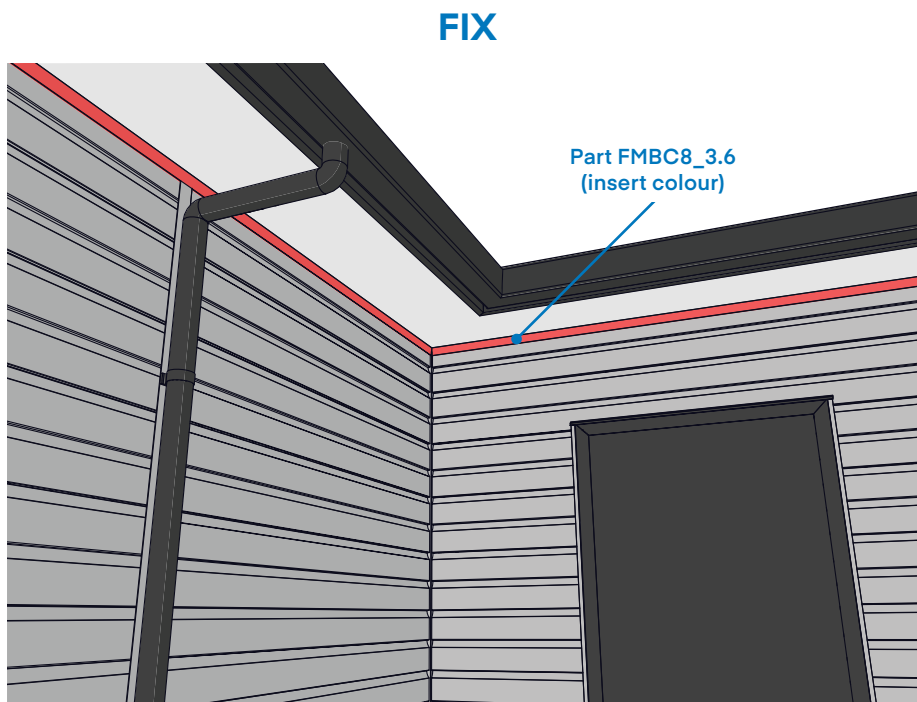
To achieve this, ensure that the weatherboard is correctly packed out and fix these boards using SS304 40x2.8 jolt head nails (alternatively 2x SS304 finishing brads skewed). These fixings must be spaced at maximum 600mm, punched, filled then covered using matching Palliside® finishing paint. Refer CAD detail DF-01-R.

2.9 Installation at Soffit

Carry out the installation of the weatherboard above the head flashing to soffit. Trim and pack out cut weatherboard to suit soffit height (particularly horizontal soffit finishes). For best results reduce the spacing of these packers to 300mm centres.

2.9.1 Horizontal Soffit Finish

Horizontal soffit line is finished using the Palliside® foam soffit, a universal 40mm x 18mm cornice moulding, available in 3.6m lengths to match the chosen Palliside® colour.

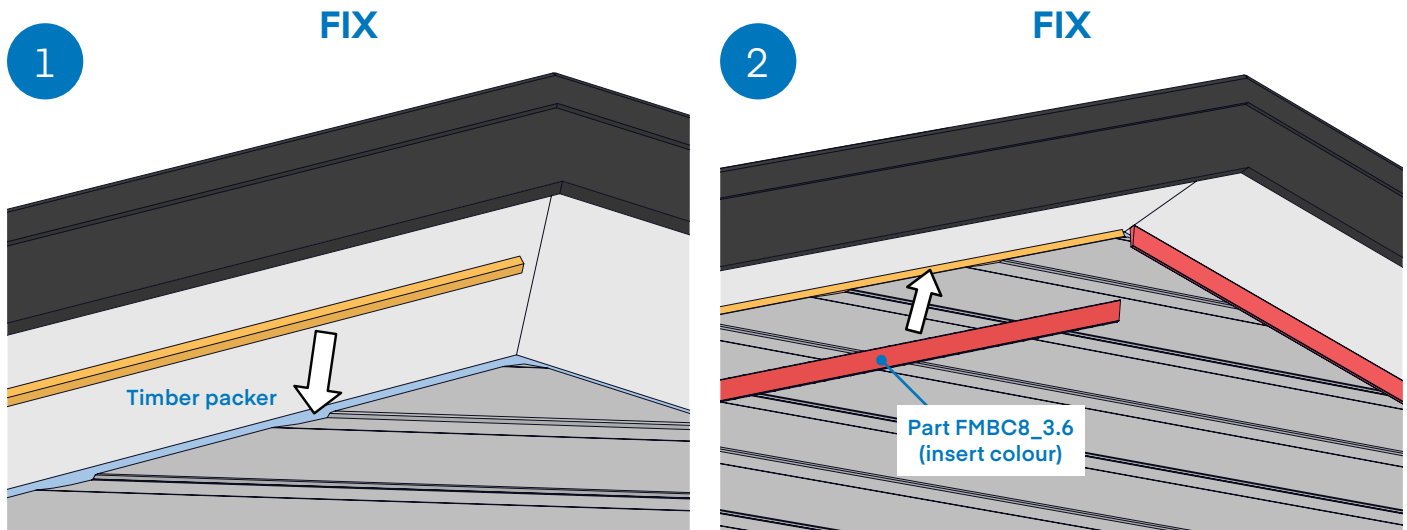


Note:

Nail - SS304 40mm x 2.8mm jolt-heads punched, filled, then covered using matching Palliside® finishing paint, or alternatively two finishing brads. Space these fixings at maximum 600mm centres.

2.9.2 Raked or Gable End Soffit Finish

Finish Palliside® Weatherboard so there is a 20mm gap between the board and the rake or gable end. Into this gap fix a continuous timber H3.1 20mm x 20mm packer. For best results pre-paint the packer in a colour similar to the Palliside® board before installing.



Note:

Apply a continuous bead of sealant where the board finishes to the edge of the packer. Nail the Palliside® foam soffit mould in place through this packer at 300mm centres using HDG 40mm x 2.8mm jolt heads (or finishing nails with a minimum Class 4 type finish, 2 per fixing point, skewed). Punch the fixings if required, fill, then cover using matching Palliside® finishing paint.

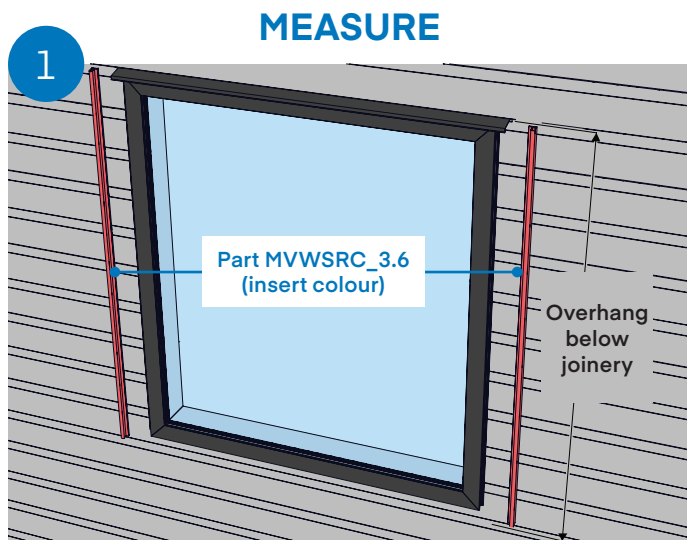
2.9.3 Alternative Soffit Finishes

The Palliside® 2-Part Channel Trim can be used as an alternative soffit finish. The base of the 2-part channel needs to be fixed in place prior to the installation of the top weatherboards. Before inserting the cap, insert a continuous strip of Polyethylene Foam (PEF) Rod or Inseal tape placed between the spine of the 2-part channel base and the weatherboard.

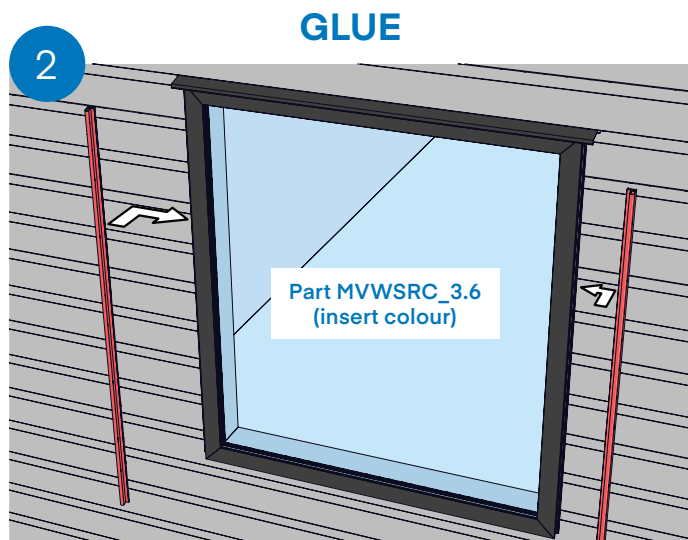
Another option is to use an H3.1 timber mould to cut a finishing scribe. Once the scribe has been prepared and fixed in place through the Palliside®, the gaps can be filled with appropriate sealant and the scribe painted.

2.10 Joinery Finishing

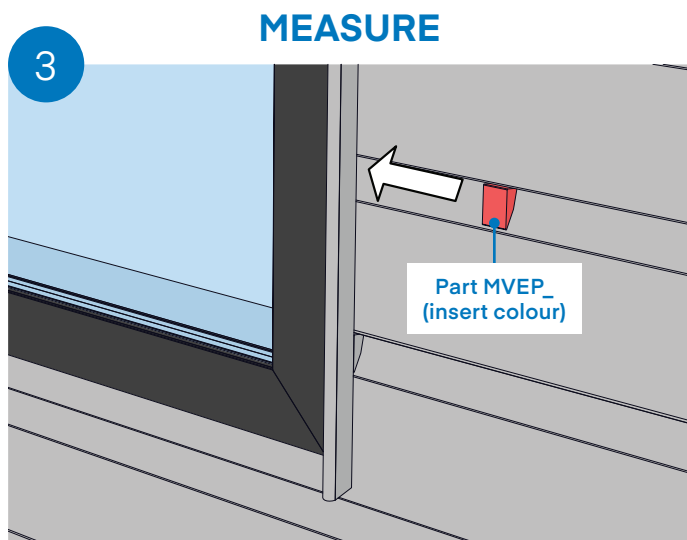
The sides of openings are finished using colour matched scriber caps and moulded end plugs.



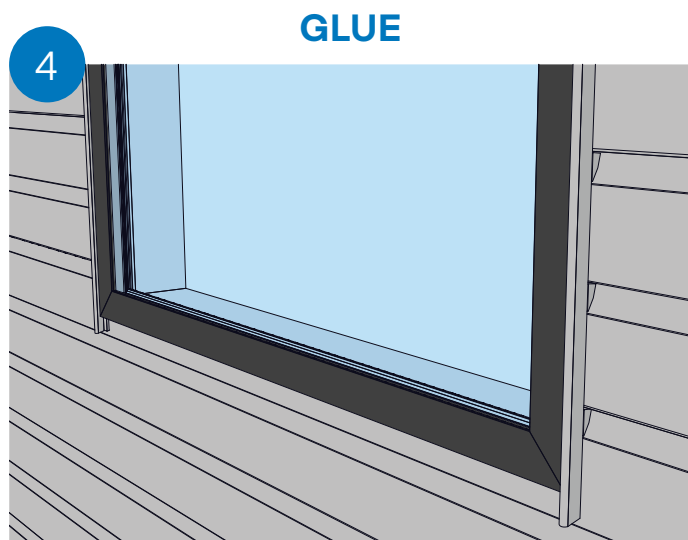
- › Measure & cut scriber caps to suit application and desired overhang below joinery
- › Match angle at head flashing



- › Apply continuous bead of solvent cement to the scriber cap groove
- › Glue into place, on jamb flange, pressing firmly towards joinery to ensure a good bond



- › Apply solvent to weatherboard face within the gap where end plug is to be placed
- › Insert moulded end plugs to be flush with scriber cap piece



Window shown completed with scriber caps and end plugs installed both sides of joinery.

Note:

Do not apply solvent to the end plug itself.

3.0 Installation Information

3.1 Solvent Cement

Solvent cement is mainly used for fixing Palliside® end plugs and flat soakers in place:

- › When using solvent cement, care should be taken to avoid any solvent being placed on the parts of extruded PVC accessories that are visible such as the caps of boxed corners and channel trims (this can lead to dimpling).
- › Excess solvent should be removed straight away by using a damp rag. Do not wait for solvent to dry before doing this.
- › Be aware that Palliside® solvent cement takes time to adhere therefore apply solvent and wait a short time before installing end plugs or flat soakers.
- › Apply solvent to gap where end plug is to be placed; do not apply solvent to the end plug itself.
- › Apply solvent to one side of the flat soaker and push in place wiping away excess solvent.

A range of sealants matching the Palliside® colours are available. These, and other neutral cured or silicon-based sealants can be applied to Palliside® in the following scenarios:

- › To form a flashing stop-end above joinery.
- › Around the area where the head flashing penetrates the weatherboard to the sides of joinery.
- › Finishing around penetrations such as pipes, etc.

Note:

The use of solvent cement or sealant should not substitute the use of sound weathertightness principles and/or tidy finishing.

MS-based sealants may also be used where the application will not be visible after installation, or will be painted over.

3.2 Finishing Paint

If required, trims etc. can be colour-matched to the Palliside® colours. Matching paint formulations can be made up by your local paint manufacturer. It is also possible to get a spray can of colour matched spray paint for all Palliside® colours. Refer to the Palliside® Technical Guide for more information on colour matching.

3.3 Steel Frame Configuration Table

Fixings for Palliside® - Direct Fix Steel Frame	
Palliside® configuration	Palliside® weatherboards direct fixed to steel frame
Requirement	Palliside® must be fixed to steel frame over a thermal break
Framing	Steel Framing in accordance with NASH3405 and specific design to meet requirements of NZBC
Thermal break - vertical framing members	A thermal break in accordance with NZBC Acceptable Solution E3/AS1 with a minimum R-value of $\rightarrow R0.25$ must be installed to each framing member
Thermal break - horizontal framing members	As per vertical fixing
Building underlay meeting requirements of nzbc acceptable solution e2/ as1, table 23	A building underlay meeting requirements of NZBC Acceptable Solution E2/AS1, Table 23 with an absorbency of $\rightarrow 100\text{g/m}^2$ in accordance with AS/NZ4201 Part 6 must be installed behind the cladding over the thermal break
Fixings	Class 4, self-drilling, 8-gauge, countersunk, square drive screw (or equivalent). The length of the screw must allow for a minimum 10mm penetration through the framing

3.4 Additional Details

3.4.1 CAD Details

A range of specific CAD details are available for access from the Palliside® website, including windows and doors, corners and joins, starts and finishes and other junctions, penetrations and features.

3.4.2 Meter-box Head Sill and Jamb

Ensure that the installation of the meter-box is carried out in accordance with the appropriate details (refer CAD details DF-13-15).

3.4.3 Palliside® to Brick Veneer Junction Details

When installing Palliside® weatherboards in combination with brick veneer a range of junction details (internal corner, external corner, brick sill, inter-storey and vertical join) are available. These details provide a suggestive means of flashing between these claddings. Other methods may be adopted providing that they demonstrate sound weathertightness principles. If in doubt speak with the designer, consult your local BCA or phone Dynex Extrusions Limited for guidance (refer CAD details DF-25 to 30 and DF-48 to 56).

3.4.4 Palliside® Installed above Joinery Between Brick

This detail sets out the method of installing Palliside® weatherboard above joinery between brick veneer (refer CAD detail DF-31-R).

3.4.5 Drained Cavity Inter-Storey Junction

Refer to the Palliside® Technical Guide to see whether there is a requirement for this junction (refer CAD detail DF-42-R).



Contact Details

For further information visit the website palliside.co.nz or alternatively contact:
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The environmental impact of our daily choices is an important consideration for Dynex. We are committed to supplying products and services that are in accordance with the principles of environmental sustainability. Dynex PALLISIDE® is made from 100% recyclable material. We have a policy of recycling all internally-generated scrap material so that nothing is sent to landfill.

Dynex has a goal to reach 100% renewable electricity by 2025 by leveraging Meridian Energy's Certified Renewable Energy programme.



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