PALLISIDE

the **smart choice** in weatherboards

PALLISIDE DIRECT FIX INSTALLATION GUIDE

march 2015

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CAD details, which support the information contained in this document, are available to be downloaded from the Palliside website **(www.palliside.co.nz/CAD).**
A table listing these details can also be found under Section 3 of the Palliside Technical Guide. Refer to the back of this document for Dynex Extrusions Ltd contact details.

INSTALLATION PREPARATION AND OVERVIEW

1.

1.1   Storage and Handling

Weatherboards must be laid flat in their original packaging (or otherwise covered) on bearers at 600mm centres. Do not lay other materials on top. Incorrect storage technique can result in buckling or distortion.

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

Where possible it is recommended that two people carry out handling and fixing of Palliside.

> Note:
>
> 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   Temperature

Additional care should be taken when fixing Palliside at temperature extremes. Where possible installation should be carried out in a temperature range of between 10°C and 25°C.

In colder temperatures, care should also be taken when cutting and nailing the product. For example, it may be necessary to pre-drill the nail holes in each weatherboard.

1.3   Setting Out

The effective cover height of a Palliside weatherboard is 260mm nominal.[1]

To work out the actual cover height of each course of weatherboard, remove 2 lengths from the packet and interlock them together measuring from the bottom of the lower board to the base of the second and use this as a guide for board courses. Make up a storey rod using this cover height as a guide.

A storey rod can be a length of timber or other material with the cover height for each course of weatherboard marked out on the length. This can be used to work out where the weatherboard will finish at head flashing and soffit height, as well as helping ensure corner alignment is maintained throughout the installation.

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1. Weatherboard cover heights do not vary significantly from batch to batch.

1.4   Tools Required

Palliside requires no special tools and can be cut and nailed like timber using a wide variety of standard building equipment including circular saws, jig saws and other power tools.

1.4.1   Cutting

Palliside weatherboards and trims can be cut using any of the following methods:

- **A standard hand saw or tenon saw.**

- **A circular saw or drop saw, using a fine-toothed blade (minimum 20 teeth).**

- **A jigsaw, multitool or router (when cutting a straight horizontal line when the head flashing falls on part of the board profile, or for cutting utility holes, etc).**

1.4.2   Hole Forming

When cutting or drilling holes for utility pipes, standard hole-forming attachments can be used. Care should be taken not to force the jigsaw or drill too hard or quickly.

1.4.3   At the Base of Openings

Mark the board in place, remove and cut to suit using a jigsaw. An alternative to this is to cut down either side to the score line using a saw, use a utility knife to score along the length of the weatherboard and then snap the section out by hand.

1.4.4   At the Head of Joinery

For best results a router (or jigsaw with a guide) can be used when cutting head flashing detail into the weatherboard. Taper the cut to ensure the back of the board can not be easily seen.

Notes:

Surfaces of circular saws must be free from burrs prior to working with Palliside.

Remember to always adopt standard safety precautions when using power tools to cut Palliside.

1.5 Fixings

Fixings for Palliside (timber frame)	
Type of Fixing	Installation Method
	Direct to the Frame
Manual Nailing	The HDG 40mm x 2.5mm Palliside nail must be used (fixed at maximum 600mm centres). 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.
Impulse Driven Nails A nailing tool such as a Paslode finishing nailer can be used to fix Palliside weatherboards	Paslode ND50mm SS304 brads, or equivalent (2 per stud, skewed, at a maximum spacing of 600mm centres). *(ITW/Paslode product code B20054)*
Screws Palliside may be fixed using screws	8 gauge x 32mm hot-dip glavanised Class 4 countersunk square drive wood screws or equivalent. *(MSL/Fortness Code SFQX 832)*

1.5.1 Summary on Fixings

1.5.1.1 Requirement for Stainless Steel in Sea Spray Zones

Coastal locations can be very corrosive to fasteners, especially locations within distances of up to 500m from the sea including harbours, or 100m from tidal estuaries and sheltered inlets, and otherwise as shown in NZS 3604 Figure 4.2. These coastal locations are defined in NZS 3604 as Zone D. However, due to the 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.

1.5.1.2 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.

1.5.1.3 Curved Walls

As covered in the Palliside Technical Guide (paragraph 3.1.6) 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.

1.5.1.4 Steel Frames

As steel framed construction is specific design, the manufacturer of the steel frame should be consulted to ensure any fixing selected is suitable, however as a guide the minimum specification should be a self-drilling Class 4 countersunk square drive screw or equivalent. The screw shall be a minimum 6-gauge and have a minimum head width of 5.5mm. The length of the fixing must cater for any thermal break plus a minimum 10mm penetration through the frame (refer www.palliside.co.nz/steelframe)

INSTALLATION PROCEDURE

<div style="text-align:right">**2.**</div>

> **Pre-line Checklist**
>
> • Has the correct type of building underlay been selected and installed correctly?
>
> • Has flashing tape been applied to the base of the sill and to all corners of windows and door openings?
>
> • Is the moisture content of the timber 18% or less?
>
> • Is the timber frame straight and studs inline?

2.1   Installation of Base Accessories

Before the installation of weatherboards and joinery commences, all base accessories need to be fixed in place. This should occur after the straightening of frame and installation of **absorbent breather type**[1] building underlay.

Base accessories include all starting pieces, all corner base pieces, and the two-part jointer base piece[2].

• **Fix all base accessories at 300mm centres.**

• **Use a chalk line and level to ensure that selected horizontal starting options are fixed level. This is particularly crucial with starter strip.**

• **Starting accessories should also be left slightly short of the selected corner option base pieces and vertical trims, not overlapped.**

• **Mitre trims where required.**

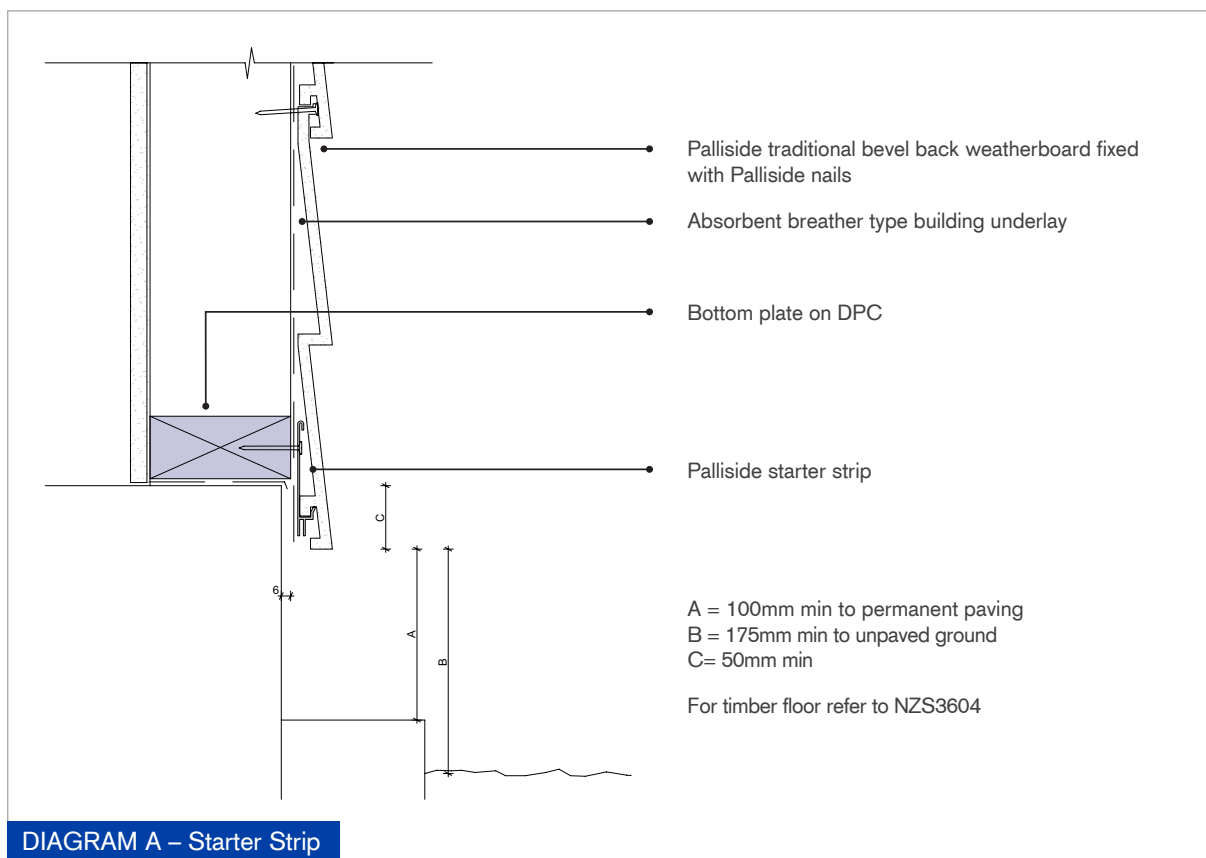## 2.2   Starting Trims (Not Including Corners)

2.2.1   Starter Strip

Palliside starter strip should be installed so there is a minimum 50mm weatherboard overhang in accordance with requirements of the New Zealand Building Code, (refer diagram A).

• **Starter strip can be used when installing Palliside above joinery between brick veneer (refer CAD detail DC31)[3].**

• **Cannot be used when starting with a part board, or along raked areas.**

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1. Minimum absorbency of 100g/m² as noted in NZBC Acceptable Solution E2/AS1, Table 23.

2. If the 2-part jointer option is selected.

3. CAD detail can be found on the Palliside website (www.palliside.co.nz/CAD)

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Palliside traditional bevel back weatherboard fixed with Palliside nails

Absorbent breather type building underlay

Bottom plate on DPC

Palliside starter strip

A = 100mm min to permanent paving
B = 175mm min to unpaved ground
C= 50mm min

For timber floor refer to NZS3604

DIAGRAM A – Starter Strip

2.2.2 Cavity Vermin Tray

There is no requirement for cavity vermin tray when installing Palliside direct to the frame.

2.2.3 One Part Channel Trim

When can One Part Channel be used with the Rusticated Profile Weatherboard?

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 can One Part Channel be used with the Traditional Profile Weatherboard?

The one part channel can be used as a vertical trim abutting another cladding but is not ideally suited as a starting option for horizontal part board starts and raked/sloped rooflines.

Note:

When installed horizontally, 5mm drain holes must be drilled at maximum 600mm centres.

2.2.4 2-Part Channel

When can 2-Part Channel be used with the Rusticated Profile Weatherboard?

The 2-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[4].

When can 2-Part Channel be used with the Traditional Profile Weatherboard?

The 2-part channel trim can be used as a universal finishing option for both gable ends (but not horizontal finishes) around the apron of top storeys that contain raked/sloped rooflines or as a vertical trim abutting another cladding[4].

2.3 Corner Options

All base pieces of corner options must be installed **prior** to the installation of the weatherboard and must be fixed to the frame at **300mm** centres.
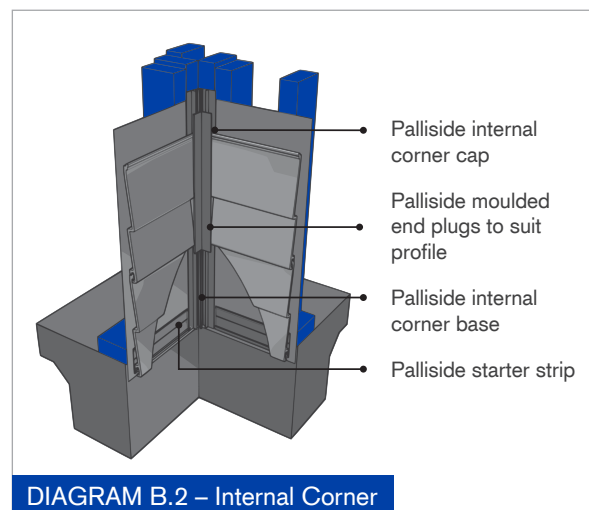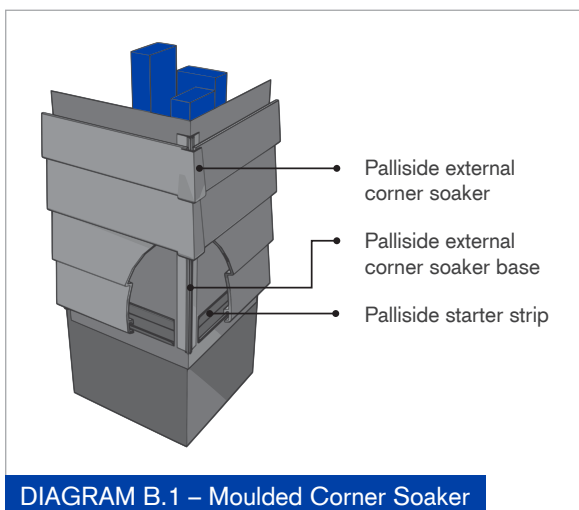
It is permissible to join base pieces if required. (When joining a 2 piece option, stagger the base and cap join).

2.3.1 90° External Corner Soaker Option

When using the Palliside corner soaker option the correct shaped base piece must be installed prior to the installation of weatherboards (refer diagram B.1).

Once the weatherboards have been installed to one wall continue on the second wall clipping in place the corner soaker cap pieces (which match the shape of the Palliside profile). Ensure that the soakers line up tidily. If there is difficulty fitting these in place or gaps are prevalent to one side, check to ensure that weatherboards are aligned correctly.

No solvent or sealant is required to hold these in place.

Palliside external corner soaker

Palliside external corner soaker base

Palliside starter strip

DIAGRAM B.1 – Moulded Corner Soaker

Palliside internal corner cap

Palliside moulded end plugs to suit profile

Palliside internal corner base

Palliside starter strip

DIAGRAM B.2 – Internal Corner

4. Providing that the spine of the flashing is not visible.

2.3.2 90° and 135° Boxed Corners

2-Part Boxed 90° Internal Corner

This 2-part option provides a boxed finish for 90° internal corners.

The female base piece has specially designed location tabs (refer diagram B.2) and must be installed prior to the installation of weatherboards. Once the weatherboards have been installed the male cap piece is pushed in place. This cap features fins to aid the installation of the Palliside moulded end plugs that are glued into the gaps using solvent cement.

2-Part Boxed 90° External Corner

When preferred there is an option available for a 90° boxed external corner finish. The female base piece is installed prior to the installation of weatherboards. Once the weatherboards have been installed, the colour matched male cap piece is pushed into place and allowance made to glue the Palliside moulded end plugs (refer CAD detail DF07)[5].

2-Part Boxed 135° Corner

The 135° corner can be used for either internal or external corners by reversing the base section, as is commonly required around bay windows. Care should be taken to avoid taking the weatherboards past the clearly marked witness lines of the selected base piece. The cap piece is then fixed in place and allowance made for the Palliside moulded end plugs to be inserted using solvent cement (refer CAD detail DF37)[5].

Note: Refer Paragraph 2.9.2 for instructions on using solvent cement.

2.3.3 Non-Standard Corners

A drawing is available showing how to provide custom made back flashings for non standard corners (refer CAD detail DF25)[5].

2.3.4 Timber Boxed Corners

If preferred timber corner facing may be used to enhance the character of design. Details are available demonstrating how to complete this option. A timber scriber can be cut to suit the traditional weatherboard profile or moulded end plugs can be used(refer CAD detail DF32)[5].
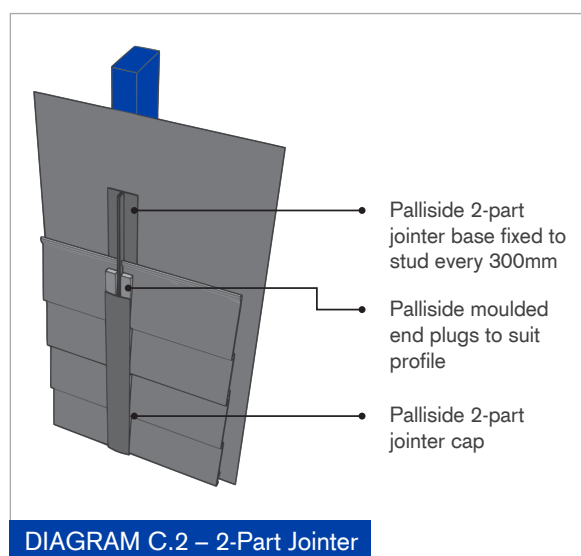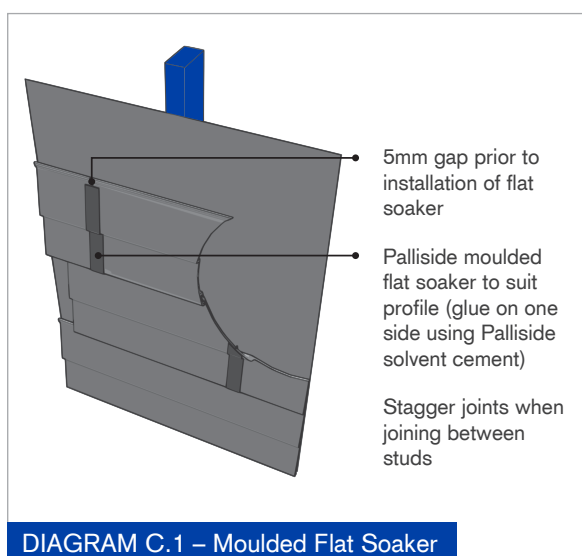
Timber facings should be screwed through the Palliside into the framing behind, sealed and painted to suit.

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5. CAD detail can be found on the Palliside website (www.palliside.co.nz/CAD)

2.4 Jointing Options

> Note: As per paragraph 2.5 of the Palliside Technical Guide covering weathertightness scope; when installing Palliside direct to the frame 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.

5mm gap prior to installation of flat soaker

Palliside moulded flat soaker to suit profile (glue on one side using Palliside solvent cement)

Stagger joints when joining between studs

DIAGRAM C.1 – Moulded Flat Soaker

Palliside 2-part jointer base fixed to stud every 300mm

Palliside moulded end plugs to suit profile

Palliside 2-part jointer cap

DIAGRAM C.2 – 2-Part Jointer

2.4.1 Moulded Flat Soakers

Moulded flat soakers that match the shape of the chosen weatherboard profile can be used (refer diagram C.1). When using this option the soakers can be installed off stud, providing that weatherboard joints are staggered.

When installing weatherboards a 5mm gap must be left to cover minimal thermal movement. The flat soaker can be inserted later by carefully applying solvent cement to one side of the back of the flat soaker. (Push the soaker in place ensuring that it engages correctly and that the spine of the soaker is hard against the weatherboard on the solvented side).
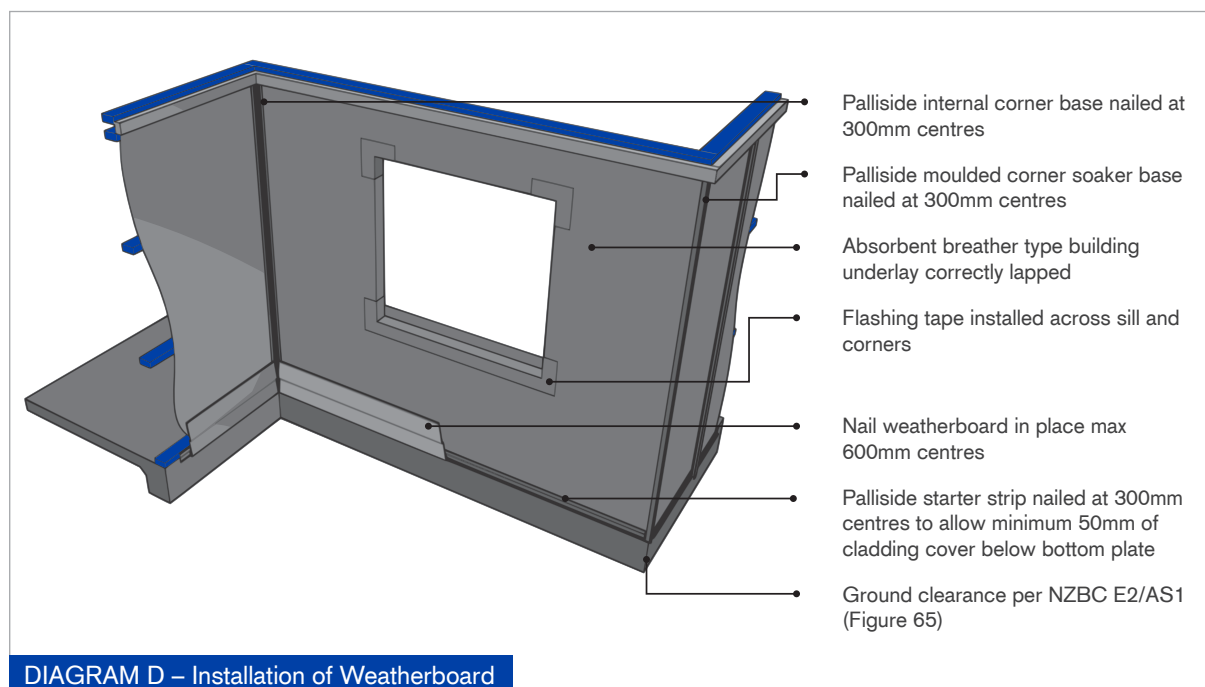
There is no base piece required for this option.

2.4.2 2-Part Jointer

As shown in diagram C.2, the female base piece is installed prior to installation of weatherboards and must be fixed in place at maximum 300mm centres. When fixing weatherboards, leave them 5mm short of the spine of the base piece. The cap is then fixed in place and allowance made for Palliside moulded end plugs to be glued in place using solvent cement.

Where possible this jointing option can be strategically placed and covered by a downpipe, however whatever the case the base piece must be install over a stud.

2.5 Installation of Weatherboard

Palliside internal corner base nailed at 300mm centres

Palliside moulded corner soaker base nailed at 300mm centres

Absorbent breather type building underlay correctly lapped

Flashing tape installed across sill and corners

Nail weatherboard in place max 600mm centres

Palliside starter strip nailed at 300mm centres to allow minimum 50mm of cladding cover below bottom plate

Ground clearance per NZBC E2/AS1 (Figure 65)

DIAGRAM D – Installation of Weatherboard

Once starting heights have been confirmed, building underlay correctly lapped and fixed and base accessories have been fixed in place, it is time to commence the installation of weatherboards.

When nailing Palliside, point the fixing slightly downward (this is to avoid splitting the top of the back part of the weatherboard, which leads to creeping out of level during installation) and nail from one end to the other or from the middle outwards.

Nail at maximum 600mm centres leaving a 5mm[6] gap between weatherboards when joining the boards.

> Notes:
>
> Ensure Palliside nails are hit home firmly but not over nailed.
>
> When using brads, use 2 per stud, skewed.
>
> When using screws, ensure that the head of the screw is flush with the fixing groove to ensure the next weatherboard can overlap without interference.

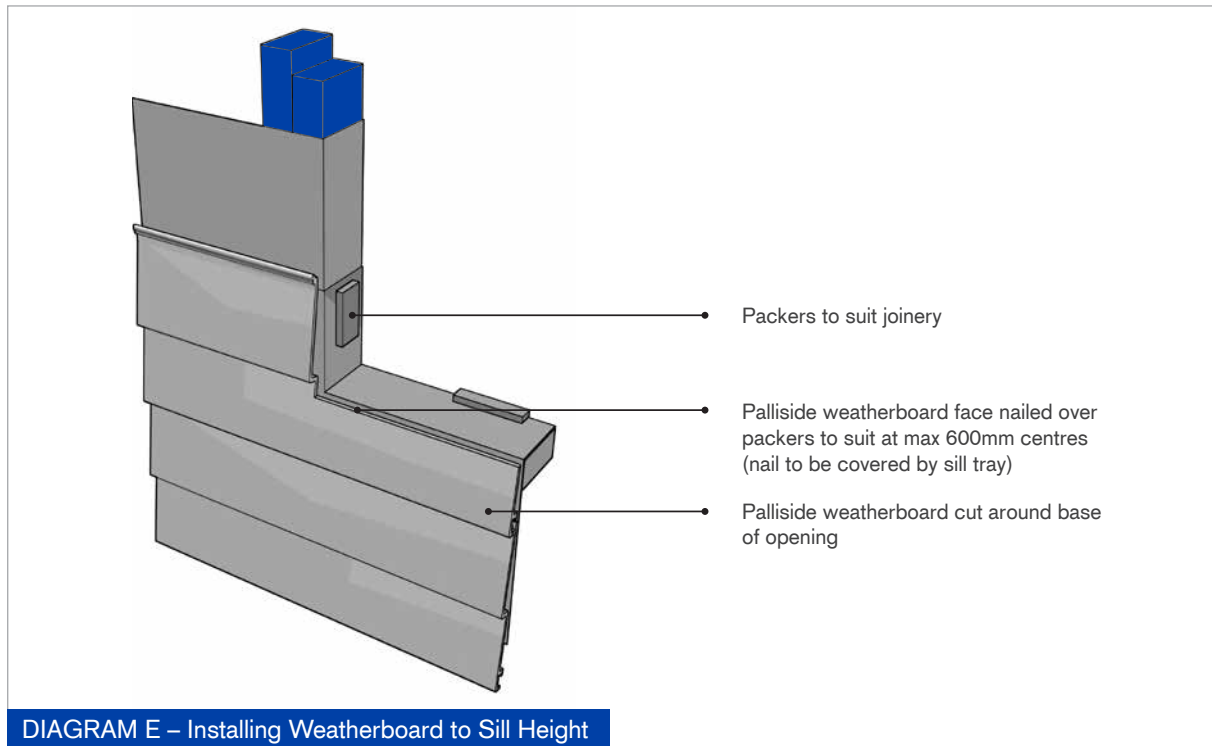Push into place the next course of boards correctly and continue fixing.

The locking procedure is designed tight to protect from water and dust. If difficulty is experienced interlocking the 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.

It is advisable to check that the courses of weatherboard remain level using a spirit level and/or storey rod.

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6. When using the flat soaker joining option.

2.5.1   Install Weatherboard to Sill Height

DIAGRAM E – Installing Weatherboard to Sill Height

Packers to suit joinery

Palliside weatherboard face nailed over packers to suit at max 600mm centres (nail to be covered by sill tray)

Palliside weatherboard cut around base of opening

Carry out installation of weatherboard as described earlier to the base of the opening, cutting weatherboard around opening to suit (making sure that the cut of the weatherboard is no higher than the sill trimmer plate). Pack out weatherboard at sill trimmer. Fix the cut board at maximum 600mm centres. To ensure that the fixing will be covered by the sill tray lip, place it within 10mm of the top of the cut board (refer to Diagram E).

2.5.1.1   Packing Out Cut Weatherboards

When starting or finishing on a part board or where a part board finishes below joinery, timber packers should be used to pack out the weatherboard. Board off-cuts (6mm x 2) can also be used for packing out the rusticated profile (18mm).

Any horizontal cut areas still need to be nailed in place at a maximum 600mm centres. Nail these areas so that the fixing is not visible (eg. covered by joinery or trim). Fastfix fasteners can be used in some instances, particularly in holding the weatherboard in place above the head flashing.

2.5.1.2   Cut Traditional Board Start (Horizontal Only)

Due to the tapered nature of the traditional weatherboard profile, starting part way up the face of the weatherboard may make the area unsuitable for using any of the standard starting trims discussed in this document. Therefore particular care needs to be taken with the weatherboard cut.

If desired, the 2-part channel trim can be used by modifying (reducing) the base and cap to allow the cap to fit tighter to the base. Due to the modification, solvent cement may be required to glue the cap piece in place. Drain holes still need to be drilled to allow moisture to get out.

2.5.1.3 Installation of Weatherboard Below Doors and Ranch Sliders

Palliside weatherboard must be cut around and continued below doors and ranch sliders (refer CAD detail DF44).

2.6 Installation of Window Flashings and Joinery

Windows should not be installed into the openings until the weatherboard has been fixed to the sill height and sill and jamb base flashings fixed correctly in place.
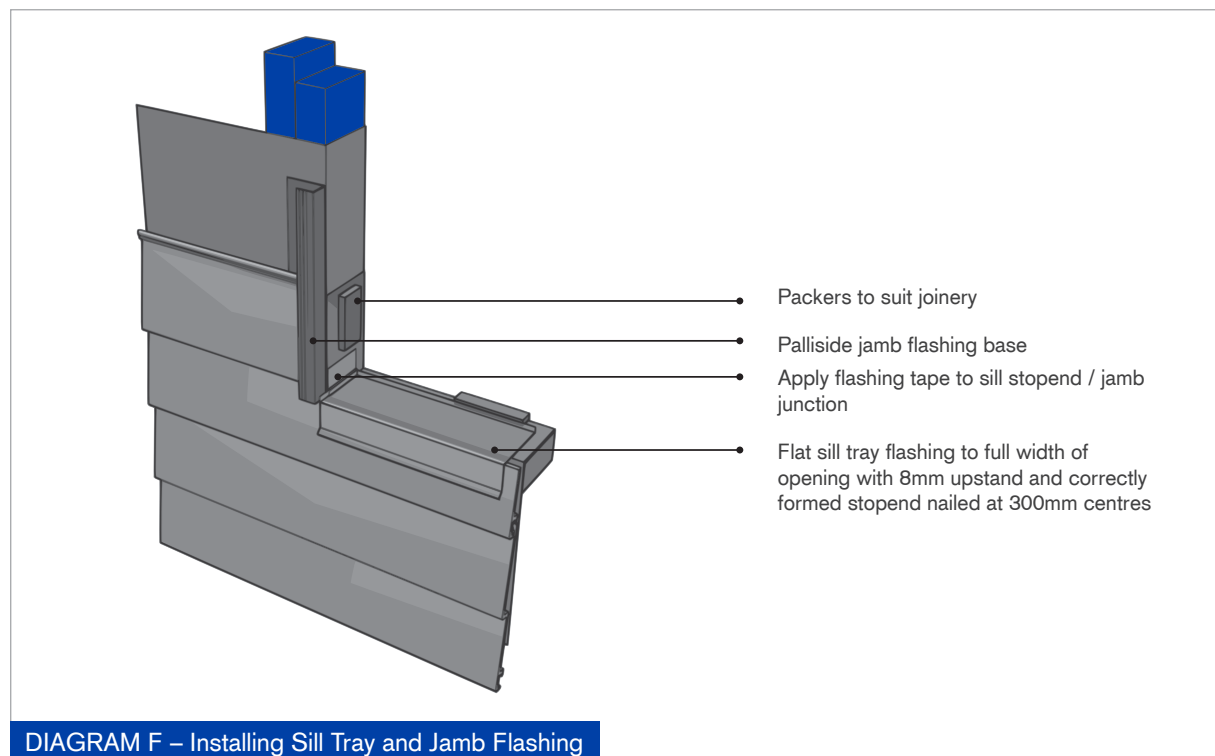
All aluminium joinery should be compliant with the parameters outlined in the Palliside Technical Guide (paragraph 2.9.1).

2.6.1 Installation of Sill Tray

A standard window sill tray with an 8mm upstand at the back (provided by window fabricator or 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.

Cut sill tray to suit width of opening allowing for the fabrication of stop ends at either end of the sill tray which must be lapped appropriately with the upstand. The sill tray needs to be fitted once the weatherboards have been installed to sill level, carefully running a bead of sealant behind the front edge of the sill tray that sits against the weatherboard.

Fit the sill tray in place and fix.

Packers to suit joinery

Palliside jamb flashing base

Apply flashing tape to sill stopend / jamb junction

Flat sill tray flashing to full width of opening with 8mm upstand and correctly formed stopend nailed at 300mm centres

DIAGRAM F – Installing Sill Tray and Jamb Flashing

2.6.2 Installation of Jamb Flashing Base and Joinery

The base of the vertical jamb flashing is fixed in place either side of openings prior to the installation of joinery and weatherboards. This flashing is compatible for both Palliside profiles.

Cut the jamb flashing base to match the height of the opening. Fix this base piece in place so that the spine is flush against the side of the opening. Repeat this process for each side of the opening.

At this point measure the width of the joinery ensuring you will have a minimum flange cover of at least 10mm either side of the opening once the joinery is installed as outlined in the Palliside Technical Guide.

• **Apply a piece of flashing tape where the spine of the Palliside jamb flashing meets the side of the sill tray.**

2.6.3 Installation of Joinery

Place joinery into the opening then pack and nail in place ensuring that the joinery is level.

While the joinery does not need to be centred it must be fixed so that:

• **A minimum 7.5mm gap (10mm at the base) is maintained between the joinery reveal and the opening.**

• **There is at least 10mm flange cover over the jamb flashing base either side (the line on the face of the jamb flashing base nearest the spine indicates the minimum 10mm cover required) and 8mm at the sill.**

• **Do not remove any of the tear off tabs from the jamb flashing base at this stage.**

2.6.3.1 Windows Close Together

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.

2.6.4 Installation to Head of Window

Continue to install weatherboards either sides of the opening up to the head flashing level.

2.6.5 Installation of Head Flashing

Cut the base and cap of the Palliside 2-part head flashing and cut a minimum 60mm longer than the outside width of the aluminium joinery. Once installed this will allow for around 18mm either side of the opening beyond the Palliside scriber.
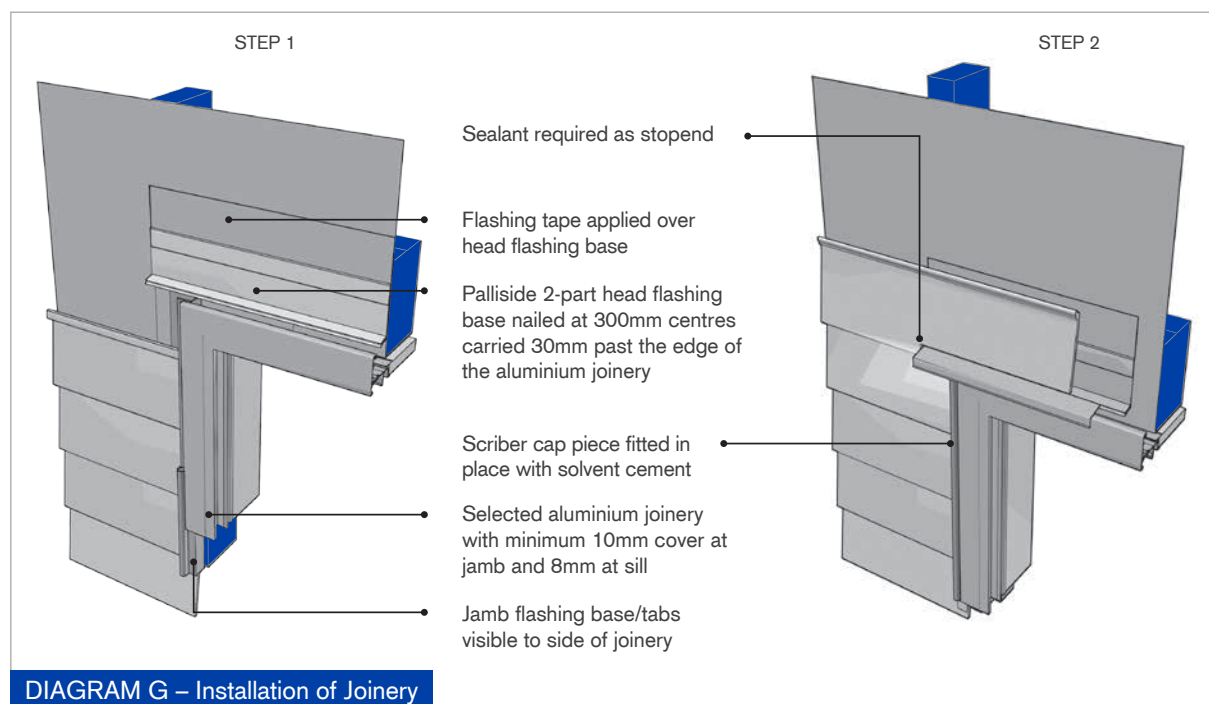
Clip together and place the head flashing above the joinery so that it rests on the flange of the aluminium. Centre this in place. Nail through the base of the head flashing at 300mm centres and cover the width of this base with flashing tape, before removing the aluminium cap.

• **Where a cut board is used above the head flashing, nail packers (to suit) in place in front of the base piece of the head flashing evenly spaced at maximum 600mm centres.**

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

2.6.6 Installation of Weatherboard Above Joinery

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 (refer Diagram G).

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

- **Remove head flashing cap and insert cut weatherboard in place.**

STEP 1

STEP 2

Sealant required as stopend

Flashing tape applied over head flashing base

Palliside 2-part head flashing base nailed at 300mm centres carried 30mm past the edge of the aluminium joinery

Scriber cap piece fitted in place with solvent cement

Selected aluminium joinery with minimum 10mm cover at jamb and 8mm at sill

Jamb flashing base/tabs visible to side of joinery

DIAGRAM G – Installation of Joinery

2.6.6.1 Full Weatherboard Profle Above Joinery

If it works out that a full weatherboard profile can be placed above 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 to be fitted in place (refer Diagram H on page 18).

Then trim the nailing groove from a weatherboard off-cut, (e.g. taken from the cut around the base of the opening) and nail this across the base of the head flashing, level with the nailing groove either side of the opening. Ensure that the nailing groove cut is narrow enough as not to be visible once the full weatherboard has been installed, Place the weatherboard in place and continue.

2.6.6.2 Slot to Side of Head Flashing

In instances where the base piece of the head flashing penetrates the cut weatherboard slightly, slope the cross-section of the cut on an angle to allow the base to sit nicely. Use sealant to provide additional protection in these areas.
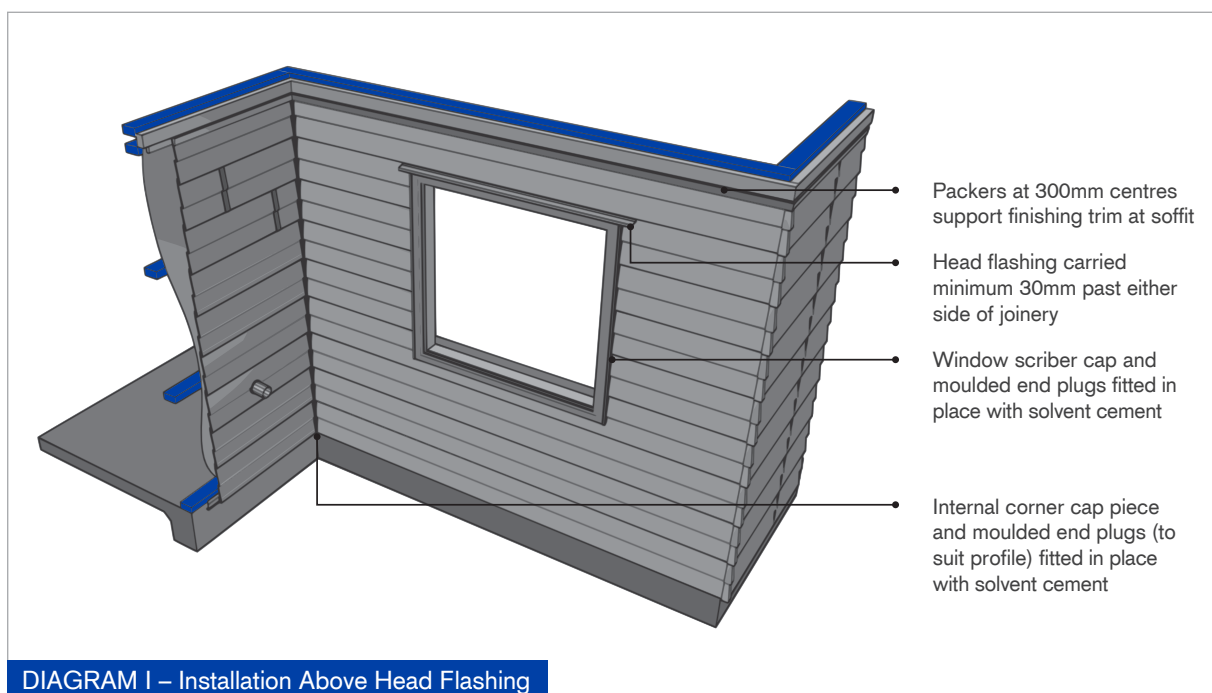
STEP 1

STEP 2

Sealant required as stopend

Flashing tape applied over
head flashing base

Palliside 2-part head flashing base nailed
at 300mm centres carried 30mm past the
edge of the aluminium joinery

Scriber cap piece fitted in place
with solvent cement

Selected aluminium joinery
with minimum 10mm cover at
jamb and 8mm at sill

DIAGRAM H – Profile at Head Flashing
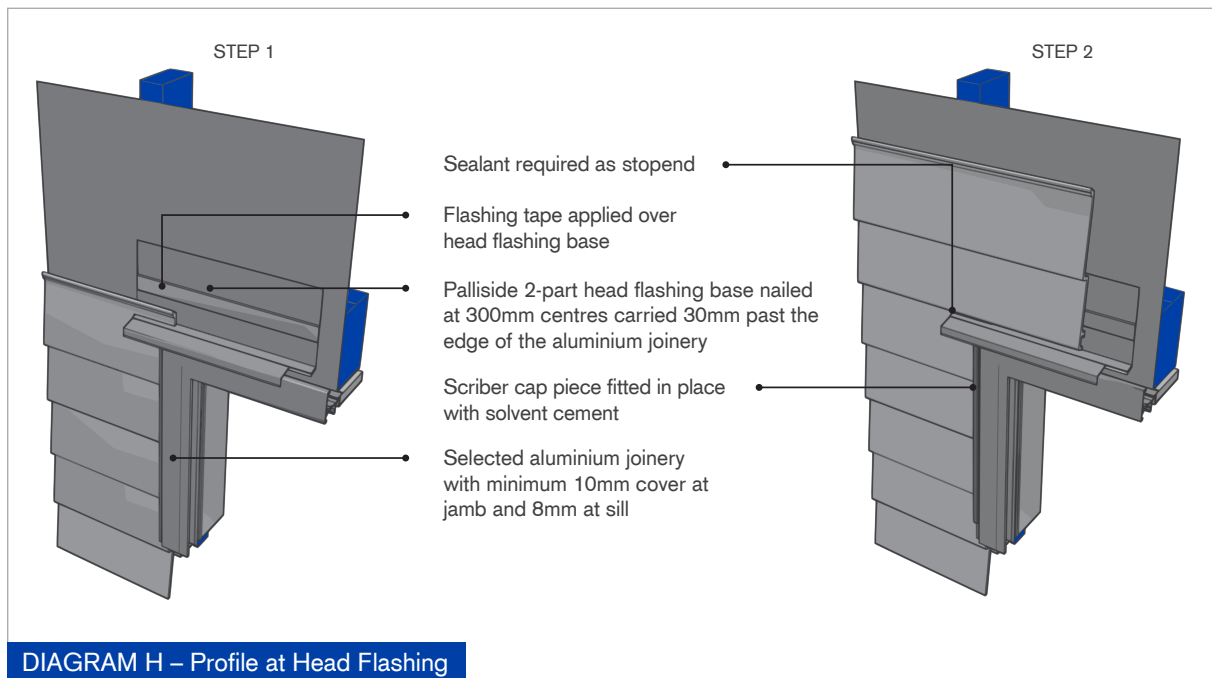
2.6.6.3 Securing Cut Weatherboard Above Head Flashing in Place

When the head flashing has been cut into the weatherboard profile it is necessary to hold the base of the
weatherboard in place above the head flashing using fastfix fasteners.

To achieve this ensure that the weatherboard is correctly packed out and pre-drill 6mm holes at 600mm
centres unspaced evenly across the face of the opening. Hammer fastfix fastener in place.

Packers at 300mm centres
support finishing trim at soffit

Head flashing carried
minimum 30mm past either
side of joinery

Window scriber cap and
moulded end plugs fitted in
place with solvent cement

Internal corner cap piece
and moulded end plugs (to
suit profile) fitted in place
with solvent cement

DIAGRAM I – Installation Above Head Flashing

2.7 Installation to Soffit

Carry out the installation of the weatherboard above the head flashing to soffit.

2.7.1 Soffit Finish

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

2.7.1.1 Horizontal Soffit Finish

Palliside foam soffit mould is a 40mm x 18mm cornice moulding which can be used as a horizontal finish at soffit line. This trim is available in 3.6m lengths to match the chosen Palliside colour.

This accessory may be either face nailed using 40mm x 2.0mm HDG jolt-heads punched and covered with a dab of matching solvent applied to hide the fixing, or fixed using Class 4 type finishing brads (2 per 300mm centre, skewed).

When installing the rusticated profile the 2-part channel trim may also be suitable providing that the weatherboard does not finish in the scallop part of the profile.

2.7.1.2 Gable Ends and Rakes

There are a number of ways to finish Palliside at a gable end or along a rake.

2-Part Channel Trim

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. This option works best with the rusticated weatherboard.

20mm x 20mm packer

Palliside weatherboard cut to allow for the fitting of packer to support foam soffit mould

Soffit lining

Palliside foam soffit mould 40mm x 18mm fixed at 300mm centres

Absorbent breather type building underlay

DIAGRAM J – Gable End Finish
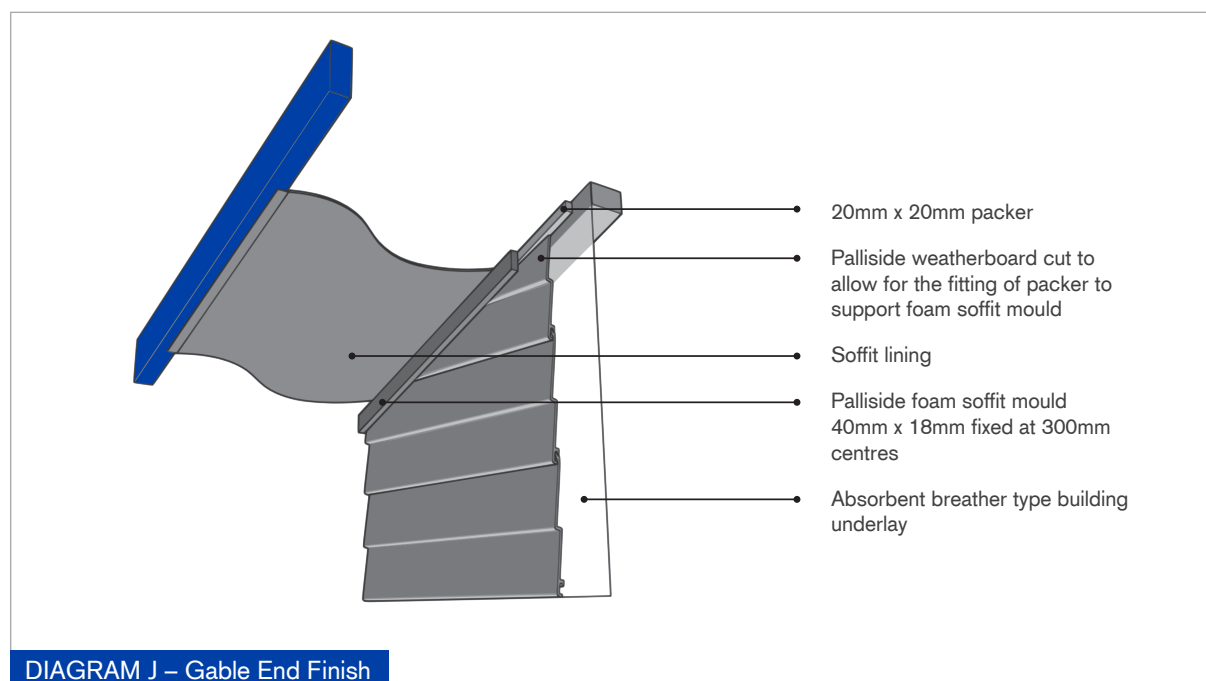
Foam Soffit Mould Option

Finish the Palliside 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 and 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 fixing s if required and cover with a small dab of colour matched solvent cement. This option is ideal for the traditional weatherboard (refer Diagram J).

• **For best results pre-paint the packer in a colour similar to the Palliside before installing.**

H3.1 Timber scriber option

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

2.8 Finishing

2.8.1 Openings

2.8.1.1 Prefit the Scriber Caps

Cut the scriber cap to suit the total height of the window allowing for a 15° taper to the top. This will allow for a tidy finish where the head flashing cap is inserted later.

Fit the scriber cap in place to the side of the window, making sure that the scriber abuts firmly to the side of the aluminium joinery. (It may be necessary to remove one of the tear-offs from the jamb flashing base to allow this to occur). The scriber cap will need to be held in place using solvent cement or sealant (refer paragrah 2.8.1.3).

- Palliside 2-part head flashing with sealant stopend
- Palliside scriber cap cut to suit and fitted in place using solvent cement
- Palliside moulded end plug to suit profile glued in place
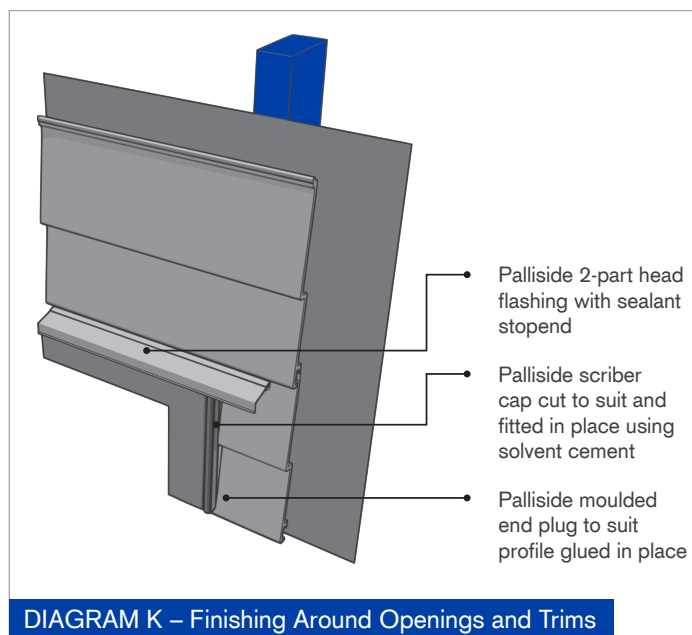
DIAGRAM K – Finishing Around Openings and Trims

2.8.1.2 Installation of Head Flashing Cap Piece

Install the cap of the head flashing in place so the front face is resting on the front of the scriber caps.

Apply sealant where the head flashing cap sits on top of the head of the aluminium joinery flange.

2.8.1.3 Sealing Scriber Caps in Place

Once the head flashing cap has been installed, remove the scriber cap and carefully apply a bead of solvent cement (or sealant) to the surface of the scriber where it intersects the base of the jamb flashing and re-insert in place.

2.8.1.4 Insertion of End Plugs

Install the Palliside moulded end plugs to the side of the windows by carefully applying solvent cement into the gaps of the weatherboard profile and inserting the end plug in place flush with the outside of the scriber cap.

2.9 Continue the Installation Process on Remaining Walls

2.9.1 Finishing of Corners and Trims

All other finishing trims including boxed corner caps, flat soakers and end plugs can be applied during the weatherboard installation process or later at the completion of the installation if preferred.

If the 90° external corner soaker option has been selected Palliside corner soakers can be pushed (clipped) in place (using the rubber handle of a hammer or rubber mallet) after the installation of each course of boards. This helps keep track of board profile alignment.

2.9.2 Solvent Cement and Sealant

Solvent cement is 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 MS based sealants matching the Palliside colours is available. These and other neutral cured or MS 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.

2.9.3 Downpipes in matching Palliside Colours

80mm round uPVC downpipes are available in colours to match Palliside, along with 95° bends and clips. These can be ordered with the rest of the Palliside components.

2.9.4 Installation of Airseals

As specified in the Palliside Technical Guide, windows, doors and other penetration openings shall be fitted with flexible air seals that comply with NZBC Acceptable Solution E2/AS1 Paragraph 9.1.6.

2.9.5 Specific Details

A range of details are available for access from the product website **www.palliside.co.nz/CAD.** These include:

2.9.5.1 Pipe Penetrations

Ensure pipe penetrations are flashed correctly as shown in the CAD detail. Pipe flanges and sealant should be applied where required to provide additional protection.

2.9.5.2 Boxed Timber Corners, Timber Facings and Planted Timber Sills

Details are available covering the installation of timber corners and facings and may help add additional character to the home. Facings are screwed in place through the Palliside weatherboards and may be finished using moulded Palliside end plugs to suit the chosen weatherboard or a traditional timber scriber. Once gaps have been filled/sealed, these can be painted either to match the Palliside or in a colour to suit (refer CAD details DF32-DF35).

Detail tape

Sealant or pipe flange
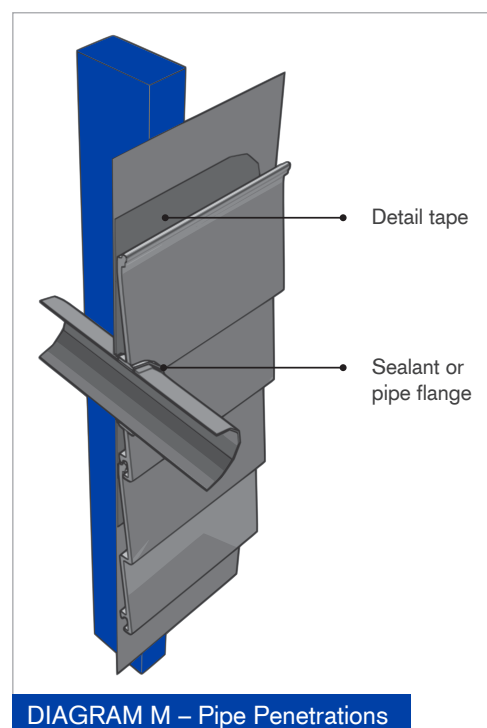
DIAGRAM M – Pipe Penetrations

2.9.5.3 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 DF13-15).

2.9.5.4 Clearances for Starting Board Along Rakes and Lines

These details explain clearances for starting Palliside weatherboards along rakes and rooflines.
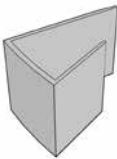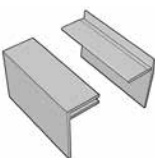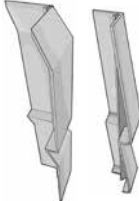
2.9.5.5 Palliside to Brick Veneer Junction Details

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 DF25-30).

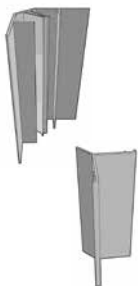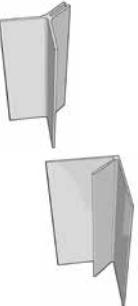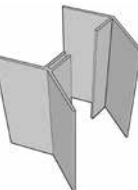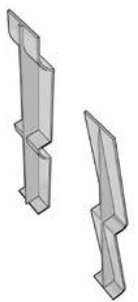#### 2.9.5.6 Palliside Installed above Joinery Between Brick

This detail sets out the method of installing Palliside weatherboard above joinery between brick veneer (refer CAD detail DC31).

COMPONENT SELECTION GUIDE

<div style="text-align: right">**3.**</div>

STARTING TRIMS (refer paragraph 2.1)

Item and Item Code	Picture	Length	Description	Installation of Base Piece	Installation of Cap Piece	Comments and references
Starter strip MVSWHT3.6		3.6m	Required when installing a full board at the base of the application. Not required to be colour matched due to it being a non-visual base accessory.	Prior to installation of weatherboard.	n/a	Diagram A Paragraph 2.2.1
One Part Channel Trim Insert Colour MVCH__3.6		3.6m	Also referred to, as 'J' mould is available in colours to match selected Palliside weatherboard.	Prior to installation of weatherboard.	n/a	Paragraph 2.2.3
2-Part Channel Trim Insert Colour MV2CH__3.6		3.6m	2-part channel trim is available in colours to match selected Palliside weatherboard.	Prior to installation of weatherboard.	After weatherboard has been installed.	Paragraphs 2.2.4 and 2.7.1.2

CORNER OPTIONS (refer paragraph 2.3)

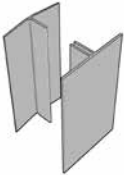| Item and Item Code	Picture	Length	Description	Installation of Base Piece	Installation of Cap Piece	Comments and references
External 90° Corner Soaker Option MVCB2.7 (Base)		2.7m	The corner soaker base can only be used in conjunction with the corner soakers and is not required to be colour matched due to it being a non-visual base accessory.	Prior to installation of weatherboard.	n/a	Diagram B.1 Paragraph 2.3.1
Insert Colour MVSC__ Rusticated or Traditional Insert Colour MVSCTRAD_		per unit	Moulded corner soakers come in double profile and are available in a colour and shape to match the weatherboards.	n/a	During installation of weatherboard to 2nd wall.	Diagram B.1 Paragraph 2.3.1

Colour Codes: CAL = Calico, RST = Riverstone, SAN = Sandstone, SLT = Slate, TEA = Tea, WH = White.
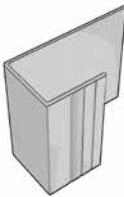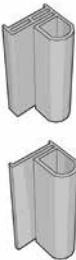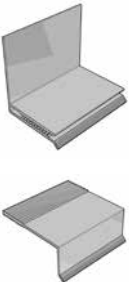
CORNER OPTIONS (refer paragraph 2.3)

Item and Item Code	Picture	Length	Description	Installation of Base Piece	Installation of Cap Piece	Comments and references
Boxed 90° Internal Corner MVIBWHT3 (Base) Insert Colour MVIC__3 (Cap)		3.0m	This option provides a boxed corner finish for 90° internal corners. Only the male cap piece is required to be colour matched as the base piece is non-visual.	Prior to installation of weatherboard.	After weatherboard has been installed.	Diagram B.2 Paragraph 2.3.2 (End plugs required)
Boxed 90° External Corner Insert Colour MVIE__3.6 (NB. Female base is not colour matched)		3.6m	This option provides a boxed external corner finish for 90° external corners only. Each unit comprising a female base piece (in white only) and a male cap piece matching the selected Palliside colour.	Prior to installation of weatherboard.	After weatherboard has been installed.	Paragraph 2.3.2 (End plugs required)
2-Part Boxed 135° Corner Insert Colour MV135__2.7 Reversible to suit both external and internal option		2.7m	The 135° corner can be used for either internal or external corners by reversing the base section, as is commonly required around bay windows, and is available to match the selected Palliside colour.	Prior to installation of weatherboard.	After weatherboard has been installed.	Paragraph 2.3.2 (End plugs required)

JOINTING OPTIONS (refer paragraph 2.4)

Item and Item Code	Picture	Length	Description	Installation of Base Piece	Installation of Cap Piece	Comments and references
Moulded Flat Soaker Insert Colour MVSF__ Rusticated or Traditional Insert Colour MVSFTRAD_		per unit	Moulded flat soakers come in double profile and are available in a colour and shape to match the weatherboards. One side of the soaker is adhered using solvent cement.	n/a	During or after weatherboard has been installed.	Diagram C.1 Paragraph 2.4.1 Soakers can be joined between stud providing they are staggered.

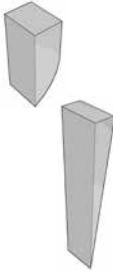Colour Codes: CAL = Calico, RST = Riverstone, SAN = Sandstone, SLT = Slate, TEA = Tea, WH = White.

JOINTING OPTIONS (refer paragraph 2.4)

Item and Item Code	Picture	Length	Description	Installation of Base Piece	Installation of Cap Piece	Comments and references
2-Part Jointer Insert Colour MVJ__2.7 Base and Cap		2.7m	Vertical joints on stud can be made using the two-part jointer that is available in colours to match selected Palliside weatherboard.	Prior to installation of weatherboard	After weatherboard has been installed.	Diagram C.2 Paragraph 2.4.2 Base must be fixed on stud (End plugs required)

WINDOW ACCESSORIES (refer paragraph 2.6)

Item and Item Code	Picture	Length	Description	Installation of Base Piece	Installation of Cap Piece	Comments and references
Window Sill Tray Supplied by Other		n/a	A flat sill tray is required. This can be purchased through the joinery fabricator. The sill tray must have an upstand of 8mm and a 20mm lip covering the front of the weatherboard. Stopends must be cut and folded correctly.	Once the weatherboard has been installed to the base of opening.	n/a	Diagram F Paragraph 2.6.1 Direct Fix Only
Window Jamb Flashing Base MVWJFB3.6		3.6m	The base of the vertical jamb flashing is fixed in place either side of openings prior to the installation of joinery and weatherboards. The jamb flashing is not required to be colour matched due to it being a non-visual base accessory. This flashing is compatible for both Palliside profiles.	After sill tray has been installed and prior to insertion of joinery.	n/a	Diagram F Paragraph 2.6.2
Window Scriber Cap Insert Colour MVWSCR_3.6 Rusticated or Traditional Insert Colour MVWSCRTRD_3.6		3.6m	The scriber cap is inserted into the jamb flashing base and available to match the selected Palliside colour. There is a different cap required to match each profile thickness and Palliside end plugs are still required to complete the installation.	n/a	After weatherboard windows and head flashing have been installed.	Diagram K Paragraphs 2.8.1.1 and 2.8.1.3 (End plugs required)
2-Part Head Flashing Insert Colour MV2Z_3.8B (uPVC Base) Insert Colour MV2ZAL_3.8 (Aluminum cap)		3.8m	The Palliside 2-part head flashing is designed to improve the ease of installation of the weatherboard above joinery and is available in matching Palliside colours. The cap piece is aluminium (powdercoated to the match the weatherboard colour).	Prior to the installation of the weatherboard above the inserted joinery.	Once the weatherboard above the opening has been installed and the scriber caps have been inserted in place.	Diagrams G, H and K Paragraphs 2.6.5 and 2.8.1.2

FINISHING TRIMS (refer paragraph 2.8)

Item and Item Code	Picture	Length	Description	Installation of Base Piece	Installation of Cap Piece	Comments and references
Moulded End Plugs Insert Colour MVEP_ Rusticated or Traditional Insert Colour MVEPTRAD_		Per Unit	Palliside end plugs are available in both rusticated and traditional profiles to match selected Palliside colours.	n/a	Insert in to profile gaps with solvent cement after weatherboard joinery and all vertical trim caps have been installed.	Diagram K Paragraphs 2.8.1.4 and 2.9.1
Fastfix Fastener Insert Colour		50 Per Pack	Palliside fastfix fasteners are mainly used to hold a cut weatherboard above the head flashing in place and come in colours to match selected Palliside weatherboard.	n/a	Once weatherboard above joinery has been fixed in place.	Paragraph 2.6.6.3
Foam Soffit Mould Insert Colour FMBC8_3.6		3.6m	Palliside foam soffit mould is a 40mm x 18mm cornice moulding which can be used as a horizontal finish at soffit line. This trim is available to match the chosen Palliside colour.	n/a	Once top weatherboard has been installed.	Diagram J Paragraph 2.7.1
Solvent Cement Insert Colour MCS_		180gm Tube	Available in matching Palliside colours to cement in place end plugs and flat soakers.	n/a	n/a	Paragraph 2.9.2
Palliside Nails PSIDENAILS		5kg Box	Palliside 40mm x 2.5mm Nail.	n/a	n/a	
Sealant Insert Colour MSMSS_		375ml Canister	Available in matching Palliside colours for finishing around head flashing and other areas requiring attention to detail.	n/a	n/a	Paragraph 2.9.2

Colour Codes: CAL = Calico, RST = Riverstone, SAN = Sandstone, SLT = Slate, TEA = Tea, WH = White.

COLOURED DOWNPIPES (80mm Round)

Item and Item Code	Picture	Length	Description	Installation of Base Piece	Installation of Cap Piece	Comments and references
80mm Round Downpipe Insert Colour RP80_3		3.0m	Coloured downpipes are available as part of the Palliside weatherboard system in matching colours (except white).	n/a	n/a	Paragraph 2.9.3
Downpipe Bend 95° Insert Colour RB280_		Per Unit	Coloured downpipe bends are available as part of the Palliside weatherboard system in matching colours (except white).	n/a	n/a	Paragraph 2.9.3
Downpipe Clip Insert Colour RC80_		Per Unit	Coloured downpipes clips are available as part of the Palliside weatherboard system in matching colours (except white).	n/a	n/a	Paragraph 2.9.3

Contact Details

For further information visit the website **(www.palliside.co.nz)** or alternatively contact:

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Freephone 0800 439 639

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