

ALTERIA
SIGNATURE ALUMINIUM SYSTEMS

CLADDINGS
INSTALLATION GUIDE





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With a range of proprietary aluminium batten and cladding profiles, Alteria Signature Aluminium Systems have been designed with all the complementary accessories and trims to ensure not only a more efficient installation, but a facade that will look good and last for years to come.

The Alteria finishes range includes a wide selection of premium powder coat colours to suit all project requirements, including realistic wood-look options plus many on-trend pearlescent and anodised-look colours.



Application

Alteria Signature Aluminium battens and claddings are suitable for use as decorative internal linings or as an external facade for residential and commercial buildings.

Note: As all project requirements are unique, it is the responsibility of the building designer to confirm suitability of Alteria to each application.

Substrate / Base Material

Aluminium 6060 T5 Alloy.

Lengths

Battens, claddings and trims are available in standard 6500mm lengths, however the available usable length is 6450mm, due to the production process.

It is therefore necessary to check both ends of the batten prior to installation. There may be a hole and/or some colour variations of up to 50mm on one end. This is to be removed prior to installing.

All profiles can be cut to size on site or Alteria can fully customise and cut profiles to your exact sizes to suit your project requirements. See page 11 for further cutting information.

Fire Certification

Alteria Signature Aluminium Systems has undertaken the following fire tests and received the following results.

Contact Alteria for more details.

Test	Result
AS 1530.1 - 1994	Deemed Non-Combustible
AS/NZS 1530.3 - 1999	Spread of Flame Index 0

BCA Compliance

Alteria Signature Aluminium System is suitable where non-combustible materials are required in accordance with Deemed-to-Satisfy Provisions C2D10(6)(e) of the 2022 NCC, Building Code of Australia Volume One. (Previously known as C1.9(e)(v) of the 2019 NCC)

BCA Section C, Part C2, D10 (6)(e) states: The following materials may be used wherever a non-combustible material is required: (e) Pre-finished metal sheeting having a combustible surface finish not exceeding 1 mm thickness and where the Spread-of-Flame Index of the product is not greater than 0.

Finishes & Colours

Alteria's range of powder-coat finishes have been developed to meet various durability and design requirements. We offer five ranges and an extensive selection of colours, each designed to meet Australian conditions.

See page 8 for colour options within each range.

Warranty

Alteria products are built to last and are made in Australia using quality components. By following the care and maintenance instructions, Alteria Aluminium Systems are covered by one of our Signature Warranties.

Refer to the Finishes section on page 8 for an overview of the warranty periods available for each finish. Visit the Alteria website for full warranty terms and conditions.



Alteria Aluminium Claddings | Interlocking Aluminium Cladding System



Alteria Aluminium Battens | 2-Piece Aluminium Batten Fixing System

Cladding 125mm



Cladding 180mm



Cladding Accessories

Starter Profile



Joiner Profile - 2 Piece



Finisher Profile - 2 Piece



Corner Profile - 2 Piece



Batten Profile 30 x 50mm



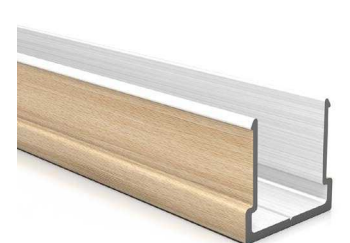
Batten Profile 30 x 80mm



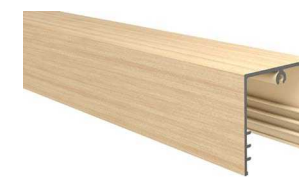
Batten Profile 30 x 120mm



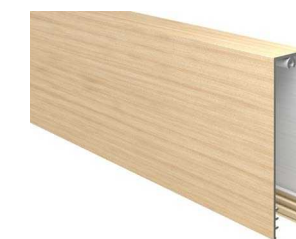
Batten Base 30mm



Batten Profile 50 x 50mm



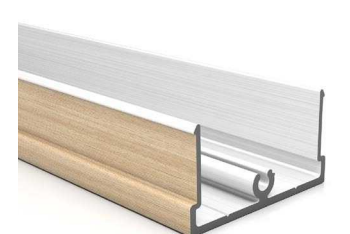
Batten Profile 50 x 100mm



Batten Profile 50 x 150mm



Batten Base 50mm



NEW: 30 x 30mm & 50 x 200mm Battens Now Available.

With a range of proprietary aluminium batten and cladding profiles, Alteria Signature Aluminium Systems has been designed with all the complementary accessories and trims to ensure an easy installation.

The Alteria finishes range includes a wide selection of premium powder-coat colours, including realistic wood-look options plus many on-trend pearlescent and anodised-look colours.

Evoke Range

Striking wood-look range that is beautiful, realistic and extremely low maintenance.



Meridian Range

Beautiful wood-effect range that offers maximum durability and realistic definition.



Signature Warranties are separated into three levels and are available based on the finish selected for your project. Visit the Alteria website for full details on each warranty.

Aurora Range

Alluring selection of anodised-look colours with a beautiful metallic flat matt finish.



Lumi Range

Decorative collection of pearlescent colours with a shimmering matt finish.



Essentials Range

Selection of Colorbond® and on-trend colours with an advanced durable finish.



Colour images for reference only. Please request a sample before making selection. Contact us for Custom Colour requests and information.

Preparation

Preparation must be undertaken by the building engineer and designer to ensure specifications are suitable for the particular building design requirements, and also complies with the appropriate regulations and standards of the Building Code of Australia.

Substructure

Alteria Aluminium Systems can be installed over concrete walling, steel girts, timber and masonry. The supply and construction of the substructure does not form part of the Alteria Aluminium System. A structural engineer is required to design the substructure.

Ground Clearances

Ground Clearance requirements are as follows:

- Minimum 150 mm clearance to the earth when installing on building exteriors
- Local building codes may dictate a minimum slope of adjacent finished grades away from the building, usually a minimum slope of 50mm over the first metre
- Alteria Aluminium should not be installed in locations where they remain in contact with standing water or debris

Moisture Management

Alteria Aluminium Systems are designed as a decorative batten & cladding systems. To ensure adequate weather-tightness, it is important for builders and designers to identify the appropriate moisture management required for the project, including moisture related risks associated with the building design.

The installer is responsible to ensure appropriate moisture management is provided during framed wall construction through the use of appropriate flashings, sealants and vapour permeable membranes such as RAB Board. Prior to installation, it is important to consider all wall openings, window sills, connections, intersections, penetrations, heads and jambs and ensure that appropriate flashing and waterproofing has been undertaken.

All Materials, components and the installation practices used to manage moisture in framed wall construction must, at a minimum, comply with the requirements of relevant standards, building codes and the manufacturer's specifications.

Weather Barriers

AS/NZS 4200.2 'Pliable building membranes and underlays - Installation' along with the Weather Barrier Technical Data Sheet require Vapour Permeable Weather Barrier (such as Trumark VPW Wrap) to be installed behind the Alteria Aluminium System.

To abide by these standards, weather barriers must provide:

- Vapour barrier - low or medium
- Water barrier - high

Areas of Australia are subject to extreme heat and humidity weather conditions. Building designers should be consulted when selecting a suitable membrane for the local climate. Installation issues can be caused by the use of soft compressible insulation between the front of the wall studs, or directly behind the external cladding. This is not recommended.

Movement & Expansion

The movement of the aluminium cladding/battens must be considered as part of your design and will depend on the location and environment. When the temperature of aluminium is increased, the metal expands which is called thermal expansion. The size adjustment of the metal is therefore important to consider, especially in environments with large temperature fluctuations.

As a general guideline, Alteria profile sections are 6m long, and if there are likely temperature fluctuations of approximately 30 degrees Celsius (eg. installed in 6 degrees, and the temperature rises to 36 degrees) it is necessary to allow for an approximate 3mm expansion and contraction at each end.

The use of Alteria accessory trim profiles will help support these expansions and contractions, however it is essential that you don't fasten the trims to the profile to allow for the adequate movement.

Cutting

Please follow the below when cutting Truwood battens and claddings

- Use a fine tooth TCT Aluminium Cutting Blade
- Use of a Mitre Saw is recommended
- It is important to cut in a straight line to ensure neat jointing etc. A pencil can be useful to draw a light line for accurate cutting
- Low tack tape can be applied to the face of the trim saw surface and the table saw surface to prevent scratching
- Where possible cut face up
- Use touch-up paints to cover cut ends of exposed aluminium if necessary

Cutting Service Available

Our major distributor Trumark can cut your battens and claddings to your exact sizes to help you save time and hassle on site. Contact Trumark on 1300 00 50 52 to discuss your requirements.



Drilling

Please follow the below when drilling Alteria battens and claddings.

- Drill holes from the front-side of the cladding or batten with a hard metal drill at 1500 rpm
- Mark the hole position on face of panel
- Do not drill multiple profiles or sections at the one time
- Immediately clean all dust and pencil marks

SAFETY



Fine particles are produced during the machining of Alteria aluminium battens and claddings panels (cutting, sanding, drilling). Necessary safety precautions must be taken to prevent inhalation and absorption of the dust. Contact with high quantities of dust particles can cause irritation to eyes, airways, and skin.

Local laws and regulations must be adhered to at all times, and the appropriate safety precautions must be observed in regards to all building materials and drilling of building materials.

Recommended safety precautions:

- Wear personal protective equipment along with an approved respirator to minimise dust contact with eyes and skin.
- Fit cutting and sanding machinery with appropriate dust extraction equipment to reduce the risk of dust inhalation.
- Ensure adequate ventilation of all work sites.

For maximum protection (lowest respirable dust production) we recommend always using best practice cutting methods where feasible.

NEVER use a power saw indoors.

ALWAYS use a saw blade that is purpose-made for cutting products.

ALWAYS follow tool manufacturers' safety recommendations.

System & Substrate Supplies

For any system, framing or accessory supplies including top hats, weather barriers and external claddings, contact Alteria's Major Distributor Trumark on 1300 00 50 52 or sales@trumark.com.au to discuss your requirements.



Layout

There are many layout and design options available for Alteria Signature Aluminium battens and claddings. Prior to installation, it is important to consider the panel orientation, layout and design in conjunction with the building conditions. Typical layout options shown below.



Cladding - Horizontal
Over Top Hats
Go to page 18 for installation details.



Cladding - Vertical
Over Top Hats
Go to page 32 for installation details.



Batten - Horizontal
Over Exterior Cladding
View Alteria's Batten Installation Guide for details.



Batten - Vertical
Over Exterior Cladding
View Alteria's Batten Installation Guide for details.

Try our online Product Visualiser
See all of Alteria's cladding & battens in various layout and finish options on our online Product Visualiser.
Visit alteria.com.au

Batten - Vertical
Floor to Ceiling Mounting Plates
View Alteria's Batten Installation Guide for details.





Application

Alteria Aluminium claddings can be installed horizontally (see page 18 for details) or vertically (see page 32 for details), and are suitable for both internal and external applications.

Fixing System

Alteria Aluminium Cladding System uses an interlocking system that is direct fixed to top hat or timber battens. There are various installation systems that can be implemented. Please contact your project engineer for recommendations.

Securing to Timber Battens

If you are securing Alteria to timber battens, the process is the same as top hats, however you will need use a 10g x 35mm Galvanised Wafter Phillips T17 Screw.

Cladding Sizes

Alteria cladding boards are available in available in the following sizes:

- 125mm
- 180mm

Shadow Gap

The maximum shadow gap of two interlocking boards is 8.5mm.

It is possible to make the shadow line smaller to suit your design requirements by moving boards closer together.



External Installation

Alteria Aluminium cladding are an excellent choice for external use as they are low maintenance. The profiles have been designed to be weathertight, however it is essential that a moisture management plan has been completed including the necessary flashings, air barriers, seals and waterproofing sheets to meet the requirements of the BCA. Contact your project engineer for recommendations.

Internal Installation

Alteria Aluminium cladding can be installed direct fixed straight to the wall battens or ceiling grid.

Cladding Lengths

All cladding comes in standard 6500mm lengths. Please note that the available usable length of the batten is 6450mm, due to the production process.

Please check both ends of the batten and trim if necessary before installation. There may be up to 25mm on each end that will not be useable, which is due to the production process. This is to be removed prior to installing.

See page 11 for cutting tips

Fixings Distances

See Span Table section (page 44) for fixing distance requirements for claddings.

Cladding Trims & Accessories

To ensure an easier and seamless installation, Alteria have developed proprietary trims and accessories profiles. These include Starter and Finisher profiles, Joiner profiles and Corner Profiles suitable for Internal and External Corners.



Starter Profile



Joiner Profile - 2 Piece



Finisher Profile - 2 Piece



Corner Profile - 2 Piece

1. Cladding Board
2. Starter Piece
3. Finisher Piece
4. Joiner Piece
5. Weather Barrier
6. Top Hats
7. Corner Details



Accessories

Alteria Cladding Board



Starter Profile



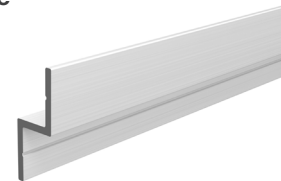
Finisher Profile - 2 Piece



Joiner Profile - 2 Piece



Z Support Profile



Corner Profile - 2 Piece



Micro Flat Head Screw



Interlocking aluminium cladding board	125mm x 6500mm 180mm x 6500mm
Cladding starter profile that is required at the bottom (for horizontal) or side (for vertical) of the wall to connect the first interlocking cladding board.	6500mm length
Used to conceal the final cladding board at the top of the wall and for various finishing detail applications.	6500mm length Two-piece cladding profile comprising of a male and female component.
Used to join the ends of two cladding boards.	6500mm length Two-piece cladding profile comprising of a male and female component.
Z profile that supports behind the cut edge of the cladding board and for various finishing detail applications.	6500mm length
Reversible corner profile that is used to conceal both internal or external corner details.	6500mm length Two-piece cladding profile comprising of a male and female component.
To be used to secure cladding profiles.	10g x 22mm

All Alteria Aluminium System Profiles & Accessories available from our major distributor Trumark.

Cladding Install Overview - Horizontal

Alteria Aluminium claddings can be installed both vertically and horizontally. This section provides advice on horizontal cladding installation, including finishing details such as corners and widows.

See page 32 for vertical cladding installation.

- 1. Starter Detail P20
- 2. Finishing/Top Detail P22
- 3. Joiner Detail P21
- 4. External Corner Detail P24
- 5. Internal Corner Detail P26
- 6. Window Detail P28
- 7. Service Penetration Box P30
- 8. Top Hat Span Tables P44
- 9. Preparation & Substructure Detail P10
- 10. Cutting P11



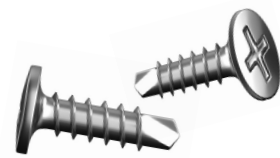
Starter Detail

For Horizontal cladding, the Alteria Starter Profile is required at the bottom of the wall or structure to connect the first cladding board into place.

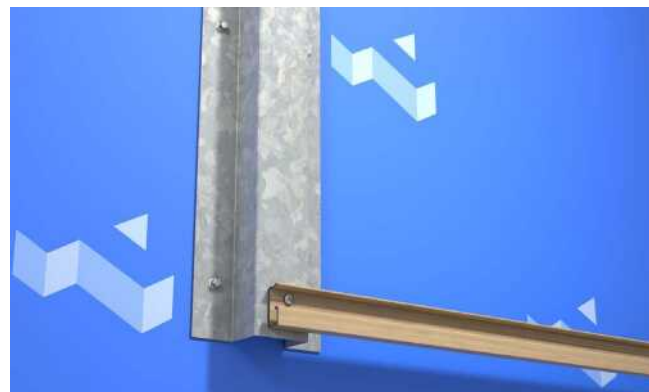
Accessories required:



Starter Profile



Micro Flat Head Screw



Step 1. Starting from the bottom of the wall/structure, screw the starter profile into the top hat.



Step 2. Insert horizontal cladding board into the Starter Profile.



Step 3. Screw cladding board to structure.



Step 4. Repeat process for remaining cladding boards.

Alteria tip

Cladding Shadow Lines

Alteria cladding boards offer a maximum 8.5mm shadow line between connected boards. It is possible to make the shadow line smaller to suit your design requirements by moving boards closer together.

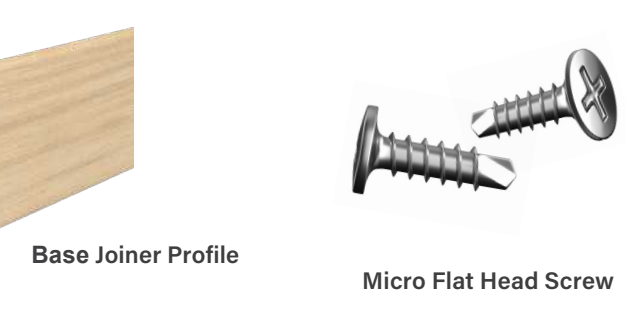
Joiner Detail

The Alteria two-piece Joiner Trim comprises of a connecting male & female piece and is required to conceal the end join between two connecting horizontal cladding boards. The Female Joiner Trim is wider to allow for extra support and the Male Joiner Trim is smaller to offer an integrated seamless finish.

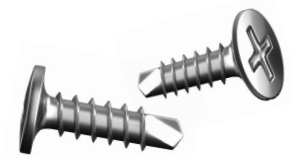
Accessories required:



Cover Joiner Profile



Base Joiner Profile



Micro Flat Head Screw



Step 1. Screw the C Joiner Trim to the centre of the top hat or structure.



Step 2. Place cladding board on either side of the Female Joiner Trim and secure boards with screws.



Step 3. Click Male Joiner Trim into place over the join.



Step 4. Repeat process for remaining cladding boards.

Alteria tip

Reversible Profile Piece

The Two Piece Joiner Profile is reversible. Both the Male or Female side can be used as the cover piece to meet your design preference. If using the wider Female as the cover trim, allow a maximum 5mm gap on either side of the Male Profile Piece to ensure Female Profile cover piece has room to click into place.

Finishing Detail

The Alteria two-piece Finisher Profile comprises of a connecting male & female piece and is used at the top of the wall/ structure to conceal the top edge of the cladding board. Two methods can be used, depending on whether you are using a full size cladding board or a cut to size cladding board.

FULL SIZE CLADDING BOARD

Accessories required:



Step 1. Screw the Male Finisher Profile to the centre of the top hat or structure.



Step 2. Place full size cladding board on top of the Male Finisher Profile and secure with screws. Ensure to leave a 5mm gap between the trim piece cladding board.



Step 3. Click Female Finisher Profile into place to cover the cladding board.



Step 4. Repeat process for remaining cladding boards.

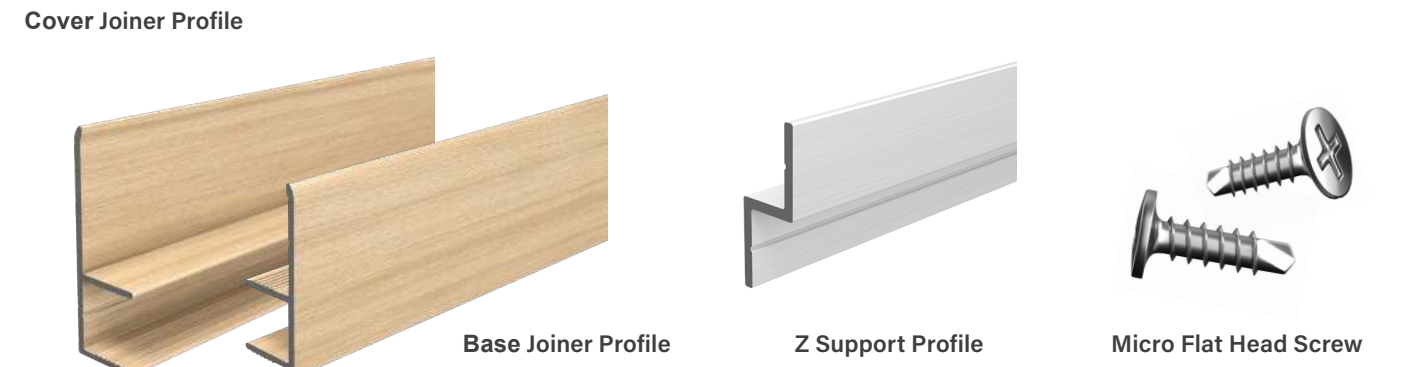
Alteria tip

Cut to Size Cladding Boards

If the cladding board needs to be cut to size, you will need to use Z Support Profile to support the cladding board. See page 23 for details.

CUT TO SIZE CLADDING BOARD

Accessories required:



Step 1. Screw the Female Finisher Profile to the centre of the top hat or structure then screw Z Support Profile below the Female Finisher Profile.



Step 2. Place the cut to size cladding board on top of the Z Support Profile, and just underneath the inside leg of the Finisher Profile. Secure board into place.



Step 3. Click Male Finisher Profile into place to cover the cladding board.



Step 4. Repeat process for remaining cladding boards.

Alteria tip

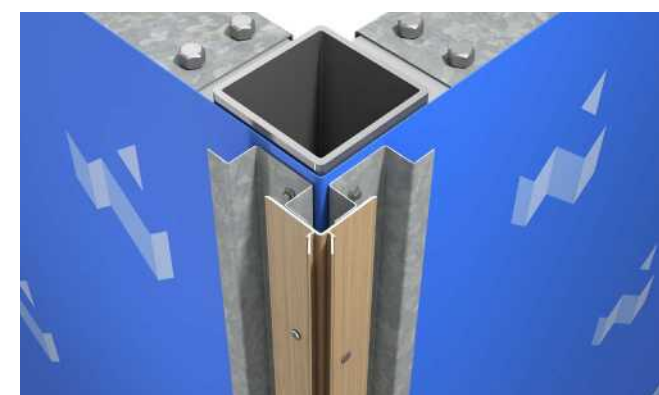
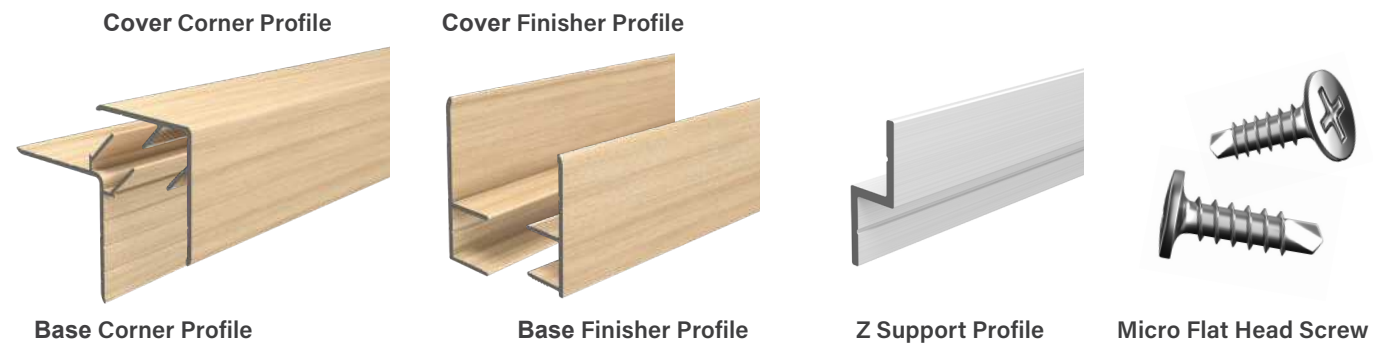
Reversible Profile Piece

The Two Piece Joiner Profile is reversible. Both the Male or Female side can be used as the cover piece to meet your design preference. If using the wider Female as the cover trim, allow a maximum 5mm gap on either side of the Male Profile Piece to ensure Female Profile cover piece has room to click into place.

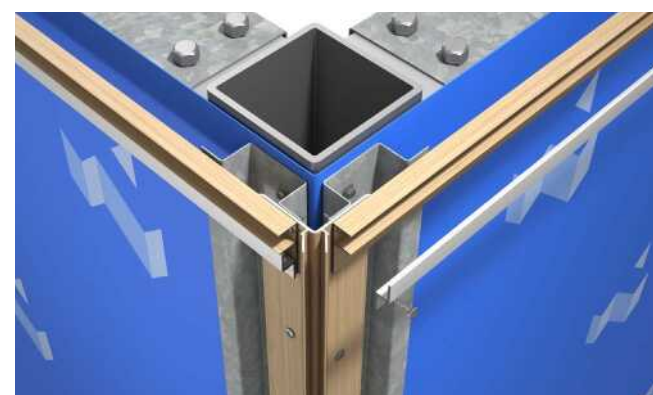
External Corner Detail – Top of Structure

The Alteria universal two-piece Corner Profile is used to conceal the corner edges for internal and external corners. The below process highlights the steps to use at the top of the external corner.

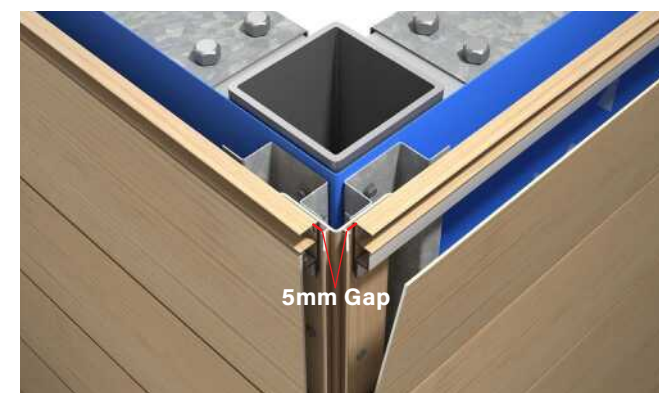
Accessories required:



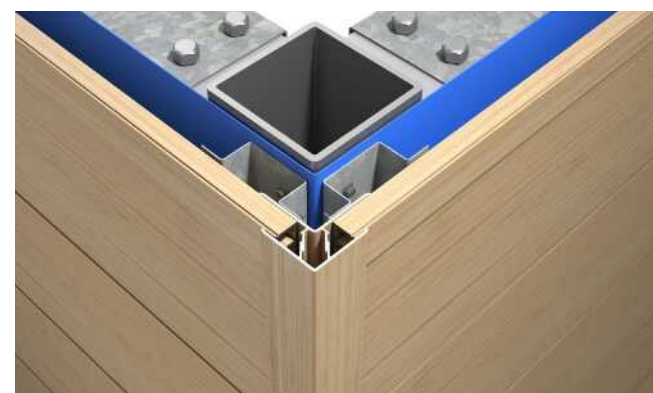
Step 1. Screw the Male Corner Profile to both sides of the corner structure. **Note:** Ensure screws have sufficient clearance to not interfere with Finisher Profile.



Step 2. Screw the Female Finisher Profile to the top of the corner profile.



Step 3. Screw the Z Support Profile on top of the Finisher Profile and then place the cut to size cladding board in front of the Z Support Profile.



Step 4. Click in the Female Corner Profile to conceal corner.

Alteria tip

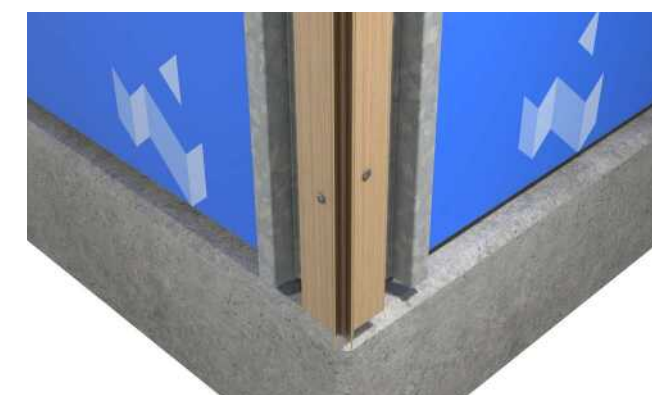
Top Hat Placement

If using top hats, it may be necessary to invert the top hats at the external corners to provide better screw placement of the Corner Profile.

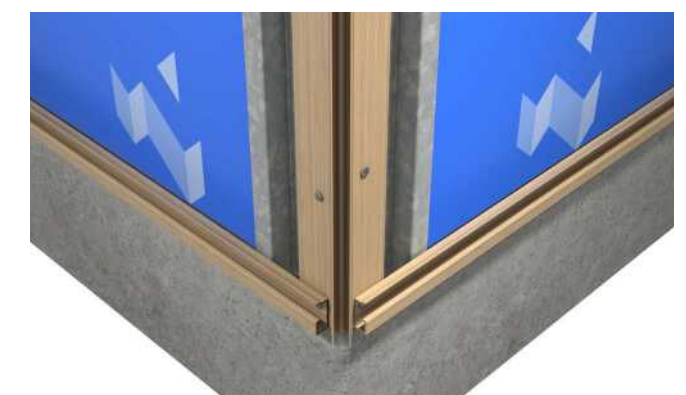
External Corner Detail – Bottom of Structure

The Alteria universal two-piece Corner Profile is used to conceal the corner edges for internal and external corners. The below process highlights the steps to use at the base of the external corner.

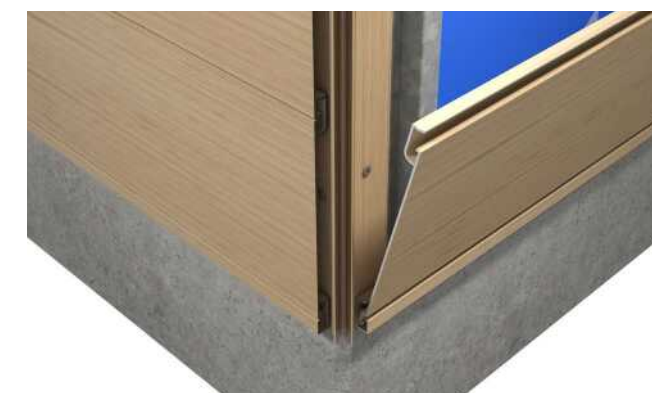
Accessories required:



Step 1. Screw the Female Corner Profile to both sides of the corner structure. **Note:** Ensure screws have sufficient clearance to not interfere with Starter Profile.



Step 2. Screw the Starter Profile to the bottom of the corner.



Step 3. Insert first cladding boards into Starter Profile and continue installation up both sides of the corner. Leave a 5mm gap between Starter Profile and Corner Profile.



Step 4. Once all cladding boards have been secured, click Male Corner Profile into place to conceal corner.

Alteria tip

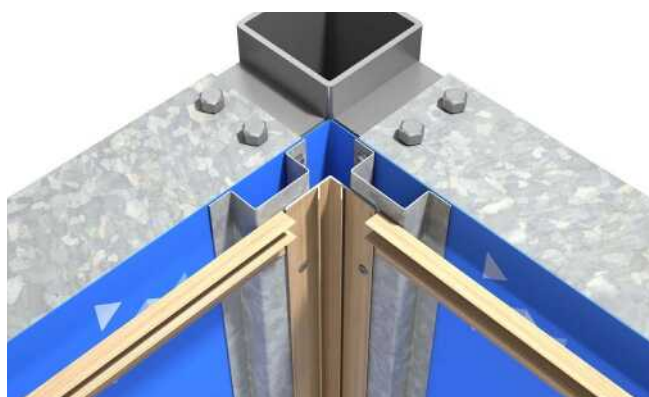
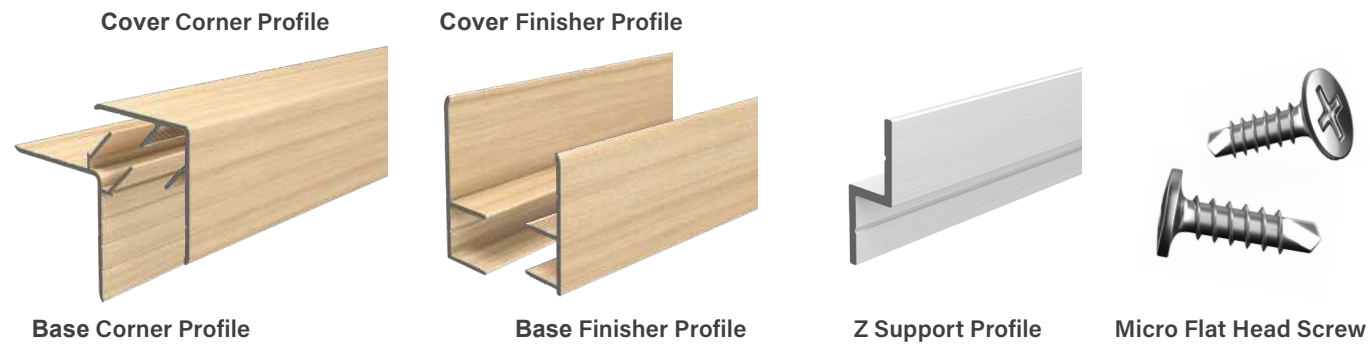
Top Hat Placement

If using top hats, it may be necessary to invert the top hats at the external corners to provide better screw placement of the Corner Profile.

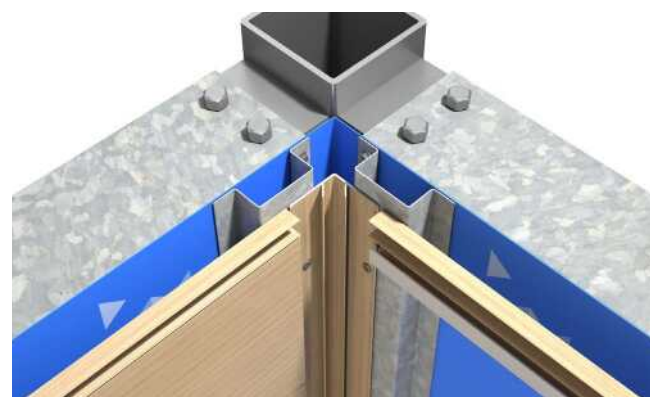
Internal Corner Detail - Top of Structure

The Alteria universal two-piece Corner Profile is used to conceal the corner edges for internal and external corners. The below process highlights the steps to use at the top of the internal corner.

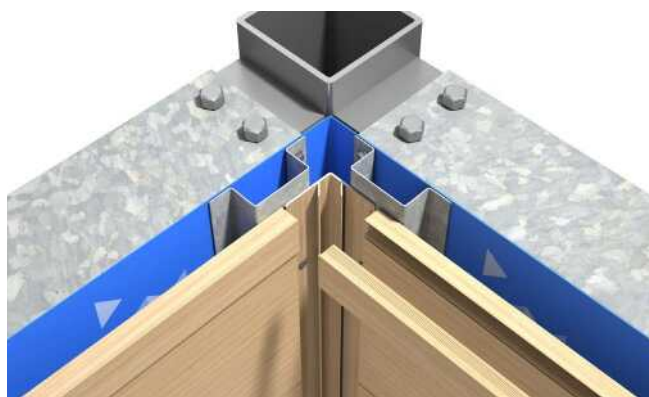
Accessories required:



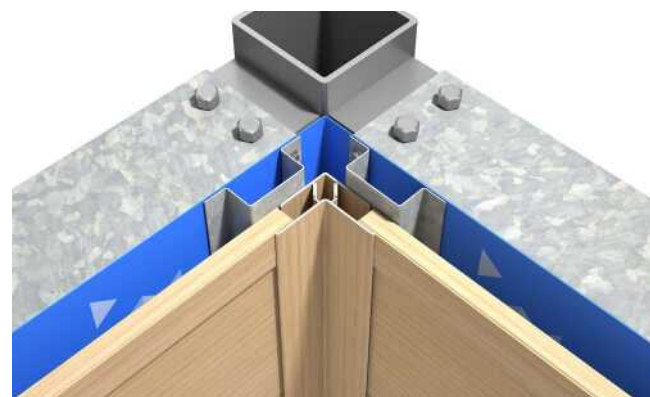
Step 1. Screw the Female Corner Profile to both sides of the corner structure. **Note:** Ensure screws have sufficient clearance to not interfere with Finisher Profile.



Step 2. Screw the Female Finisher Profile to the top of the corner.



Step 3. Screw the Z Support Profile on top of the Finisher Profile and then place the cut to size cladding board in front of the Z Support Profile.



Step 4. Clip in the Male Finisher Profile then click in the Male Corner Profile to conceal corner.

Internal Corner Detail - Bottom of Structure

The Alteria universal two-piece Corner Profile is used to conceal the corner edges for internal and external corners. The below process highlights the process to use at the base of the internal corner. It is recommended that you attach Corner Profiles prior to attaching the Starter Profile.

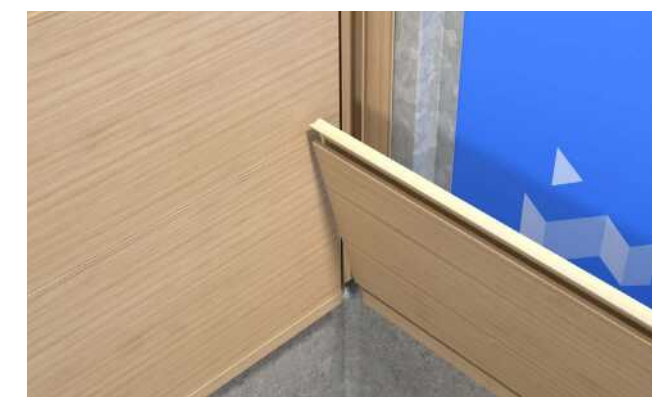
Accessories required:



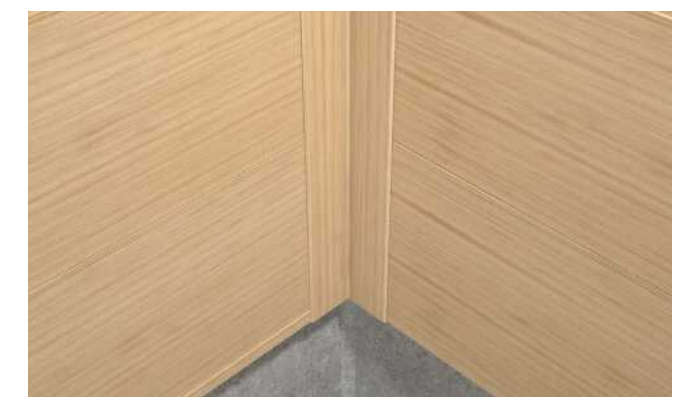
Step 1. Screw the Female Corner Profile to both sides of the corner structure. **Note:** Ensure screws have sufficient clearance to not interfere with Starter Profile.



Step 2. Screw the Starter Profile to the bottom of the corner.



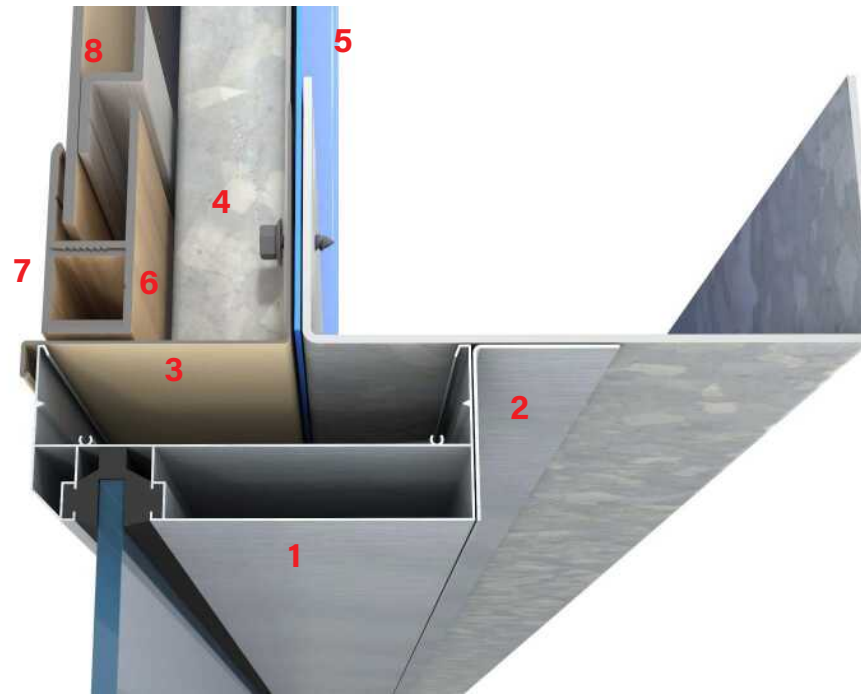
Step 3. Insert first cladding boards into Starter Profile and continue installation up both sides of the corner. Leave a 5mm gap between Starter trim and Corner Profile.



Step 4. Once all cladding boards have been secured, click Male Corner Profile into place to conceal corner.

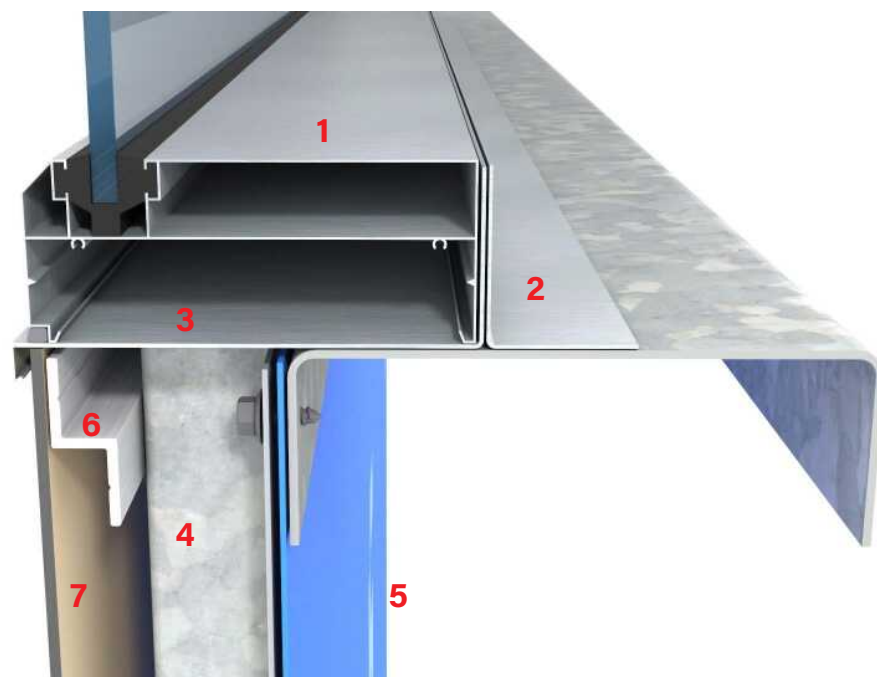
Typical Window Head Detail

1. Window Frame
2. Window Support
3. Window Head
4. Top Hat
5. Weather Barrier
6. Cover Finisher Profile
7. Base Finisher Profile
8. Horizontal Cladding Board



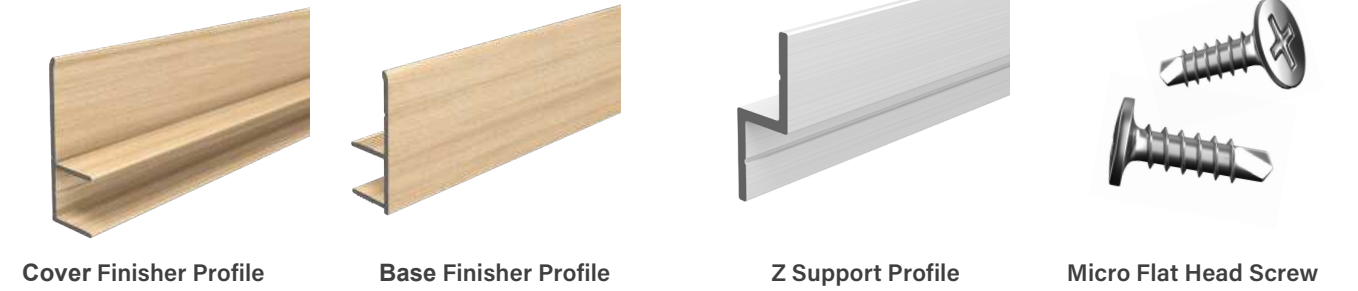
Typical Window Sill Detail

1. Window Frame
2. Window Support
3. Window Sill
4. Top Hat
5. Weather Barrier
6. Z Support Profile
7. Horizontal Cladding Board



Typical Window Installation

Accessories required:



Step 1. Screw Female Finisher Profile above the Head and on the sides of the window. Install Z Support Profile above the window head and under the window sill.



Step 2. Install horizontal cladding boards. It may be necessary to cut cladding boards to fit the shape of the window.



Step 3. Click Male Finisher Profile into Female Finisher Profile.



Step 4. Repeat process for other windows.

Alteria tip

Corners

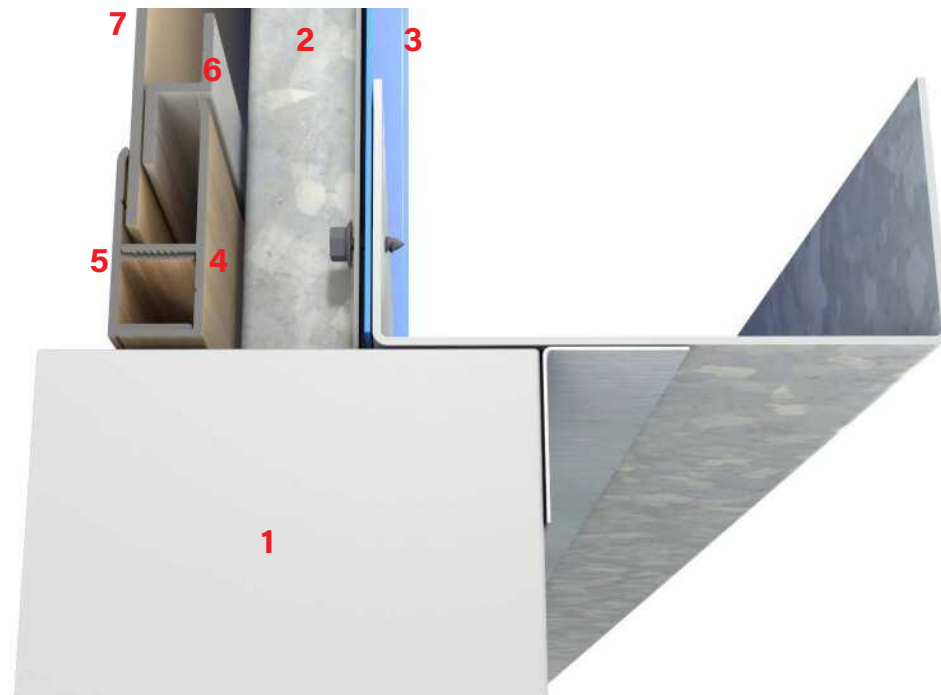
Mitre the corners of the Finisher Profile to create a streamlined corner edge around the top of the window.

Finisher Profile

Finisher Profile can be used under the window sill if required.

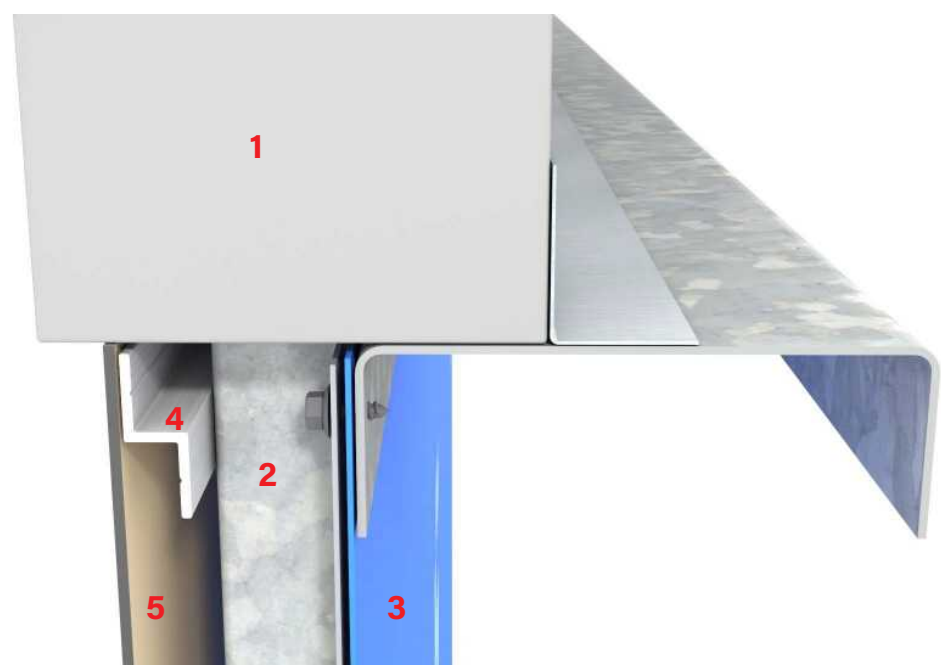
Typical Penetration - Top

1. Penetration box (or similar)
2. Top Hat
3. Weather Barrier
4. Cover Finisher Profile
5. Base Finisher Profile
6. Z Support Profile
7. Horizontal Cladding Board



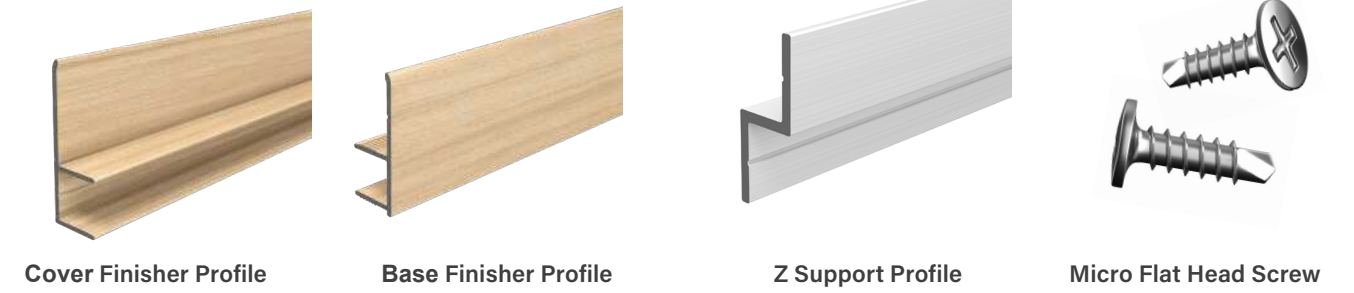
Typical Penetration - Bottom

1. Penetration box (or similar)
2. Top Hat
3. Weather Barrier
4. Z Support Profile
5. Horizontal Cladding Board



Typical Penetration Installation

Accessories required:



Step 1. Screw Female Finisher Profile above the Head and on the sides of the penetration. Install Z Support Profile above the penetration head and under the penetration sill.



Step 2. Install horizontal cladding boards. It may be necessary to cut cladding boards to fit the shape of the penetration.



Step 3. Click Male Finisher Profile into Female Finisher Profile.



Step 4. Repeat process for other penetrations.

Alteria tip

Corners

Mitre the corners of the Finisher Profile to create a streamlined corner edge around the top of the penetration.

Finisher Profile

Finisher Profile can be used under the penetration sill if required.

Cladding Install Overview - Vertical

Alteria Aluminium claddings can be installed both horizontally and vertically. This section provides advice on vertical cladding installation, including finishing details such as corners and windows.

See page 18 for horizontal cladding installation.

- | | |
|--------------------------------|---|
| 1. Starter/Side detail P34 | 6. Window Detail P40 |
| 2. Top Detail P35 | 7. Service Penetration Box P41 |
| 3. Finisher Detail P36 | 8. Top Hat Span Tables P44 |
| 4. External Corner Detail P38 | 9. Preparation & Substructure Details P10 |
| 5. Internal Corner Details P39 | 10. Cutting P11 |



Starter/Side Detail

For vertical cladding, the Alteria Starter Profile is required at side of the wall or structure to connect the first cladding board into place.

Accessories required:



Starter Piece



Micro Flat Head Screw



Step 1. Starting from the side of the wall/structure, screw the starter profile into the top hat.



Step 2. Insert vertical cladding board into the Starter Profile.



Step 3. Screw cladding board to structure.



Step 4. Repeat process for remaining cladding boards.

Alteria tip

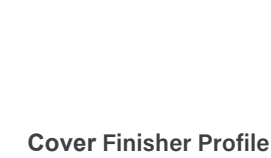
Cladding Shadow Lines

Alteria cladding boards offer a maximum 8.5mm shadow line between connected boards. It is possible to make the shadow line smaller to suit your design requirements by moving boards closer together.

Top Detail

The Alteria two-piece Finisher Profile comprises of a connecting Male & Female Profile and is used at the base or end of the wall/structure to conceal to edge of the cladding board.

Accessories required:



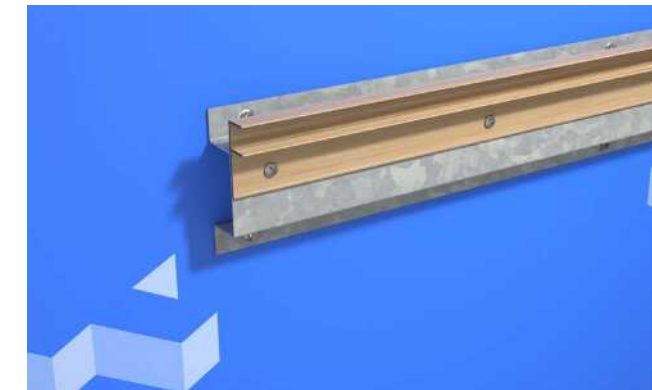
Cover Finisher Profile



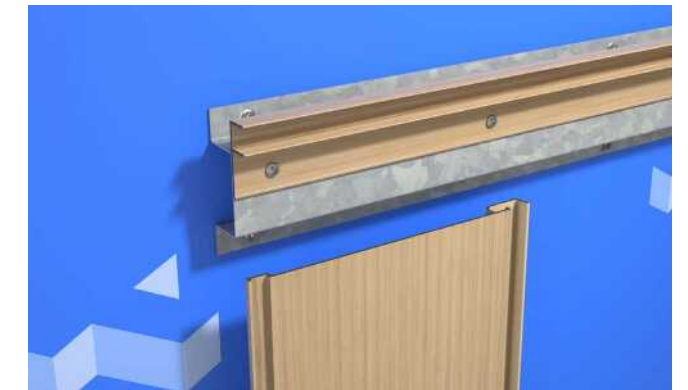
Base Finisher Profile



Micro Flat Head Screw



Step 1. Screw the Female Finisher Profile to the top hat or structure.



Step 2. Place the vertical cladding board directly under the Finisher Profile and secure. Install remaining cladding boards.



Step 3. Click Male Finisher Profile into place to cover the cladding board.



Step 4. Repeat process as required.

Alteria tip

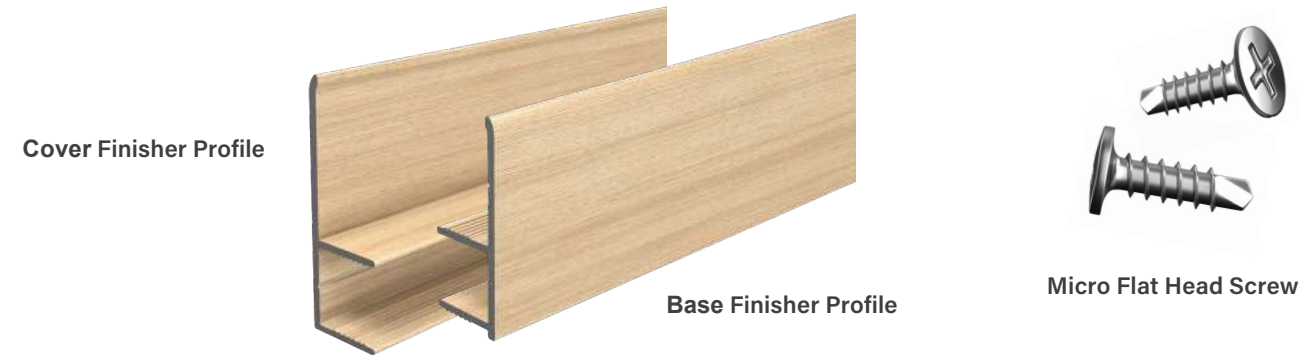
Reversible Trim Piece

The Two Piece Finsher Profile is reversible. Both the Male or Female side can be used as the cover piece to meet your design preference. If using the wider Female as the cover trim, allow a maximum 5mm gap on either side of the Male Profile Piece to ensure Female Profile cover piece has room to click into place.

Finisher Detail

To conceal the base of the cladding wall or structure, you will need to use the two-piece Finisher Profile.

Accessories required:



Step 1. Screw the Female Finisher Profile to the bottom of the top hat or structure.



Step 2. Place the vertical cladding boards directly on top of the Finisher Profile and secure. Install remaining boards.



Step 3. Click Male Finisher Profile into place to cover the cladding boards.



Step 4. Repeat process as required.



Alteria tip

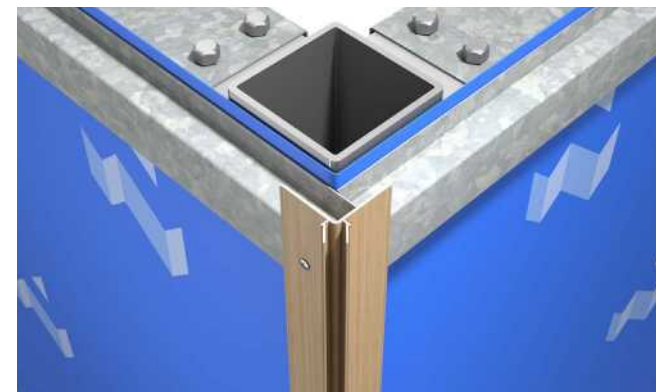
Reversible Trim Piece

The Two Piece Finsher Profile is reversible. Both the Male or Female side can be used as the cover piece to meet your design preference. If using the wider Female as the cover trim, allow a maximum 5mm gap on either side of the Male Profile Piece to ensure Female Profile cover piece has room to click into place.

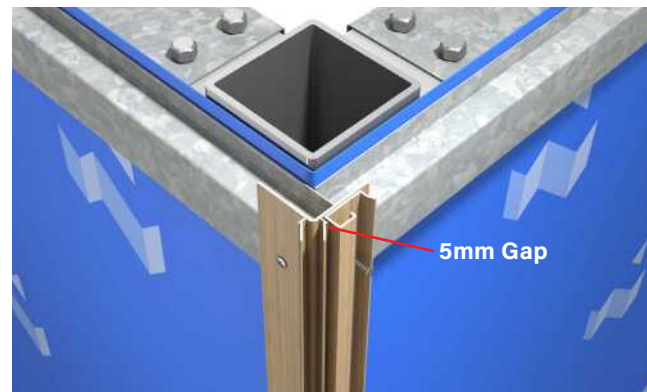
External Corner Detail

The Alteria universal two-piece Corner Profile is used to conceal the corner edges of cladding boards for internal and external corners. It is recommended that you attach the Corner Profile prior to attaching the Starter Profile.

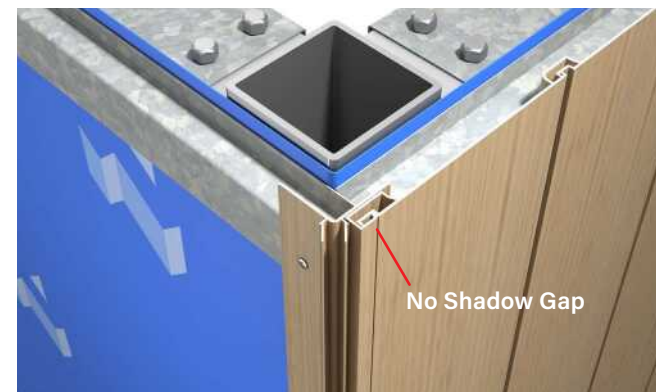
Accessories required:



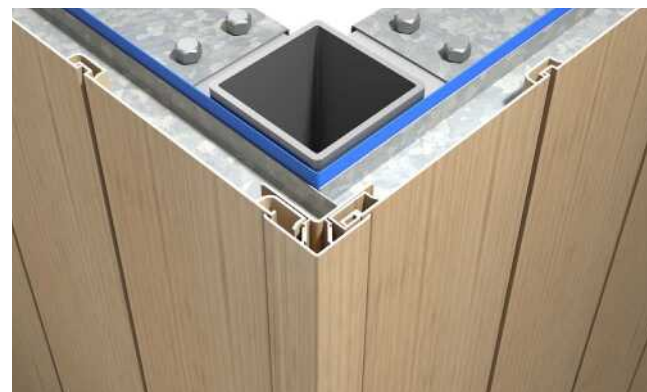
Step 1. Screw the left side of the Male Corner Profile to top hat frame only to secure the trim to the corner.



Step 2. Place the Starter Profile on top of the right hand side of the Male Corner Profile and secure with a screw. Leave a 5mm gap between Starter Profile and Corner Profile.



Step 3. Place the cladding board into the Starter Profile. Do not leave a shadow gap on the first board and secure into place. On left hand side, secure cladding to the Male Corner Profile.



Step 4. Click Female Corner Profile in to Male Corner Profile to conceal the edge.

Alteria tip

Left Hand Side of Corner Profile

Before inserting the cladding board on the left-hand side, it may be necessary to first remove the Male Corner Profile screw, then re-insert the screw over the top of cladding board.

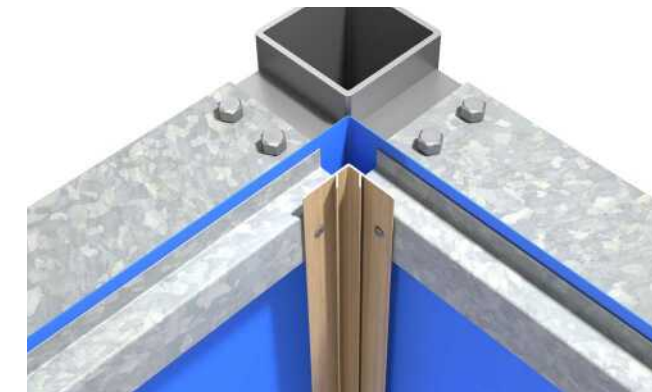
Z Support Profile

If the cladding board on the left-hand side needs to be cut to size, it may be necessary to use the Z Support Profile to help support the board. See page 23 for guidance on how to use Z Support Profile.

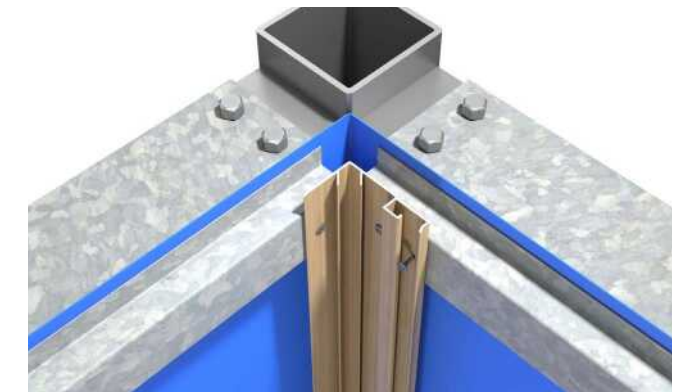
Internal Corner Detail

The Alteria universal two-piece Corner Profile is used to conceal the corner edges of cladding boards for internal and external corners. It is recommended that you attach the Corner Profile prior to attaching the Starter Profile.

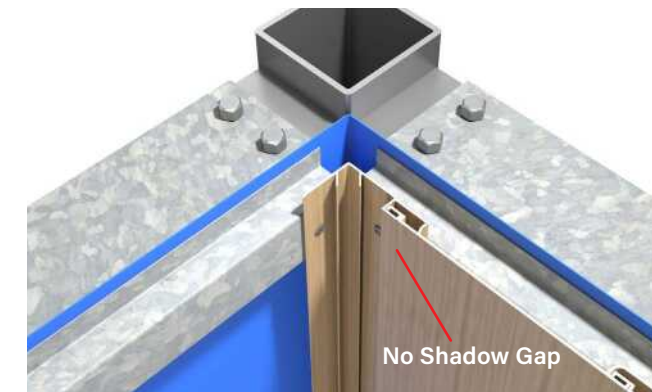
Accessories required:



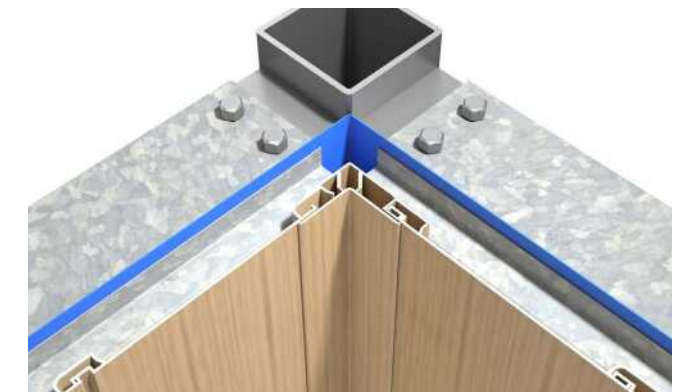
Step 1. Screw the Female Corner Profile to top hat frame.



Step 2. Place the Starter Profile next to the Corner Profile and screw into place.



Step 3. Attach cladding board to Starter Profile. Do not leave any shadow gap on this first board.



Step 4. Click the Male Corner Profile into place to conceal the edges.

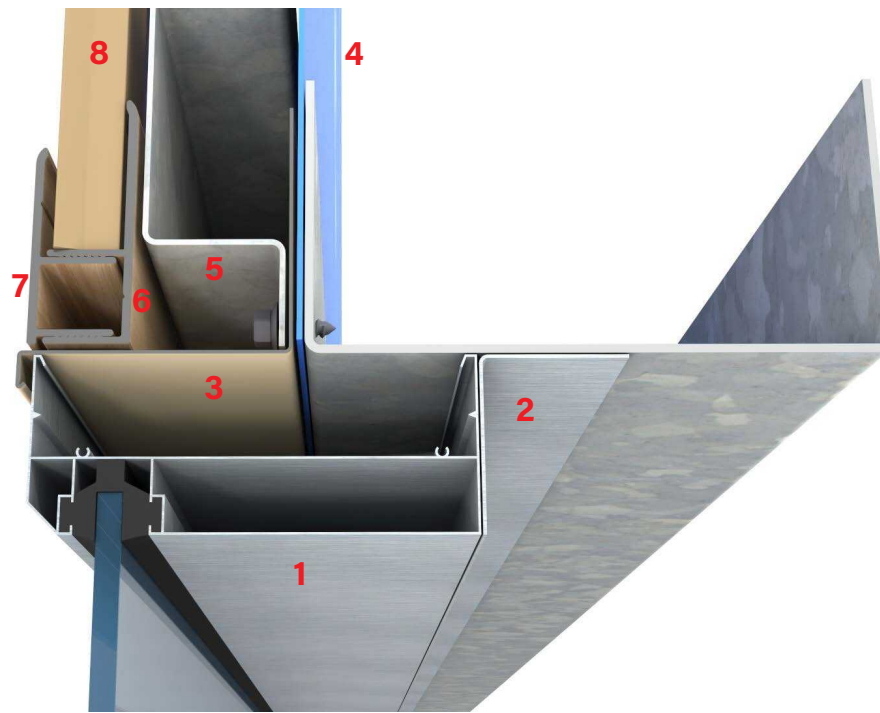
Alteria tip

Z Support Trim

If the cladding board on the left-hand side needs to be cut to size, it may be necessary to use the Z Support Profile to help support the board. See page 23 for guidance on how to use Z Support Profile.

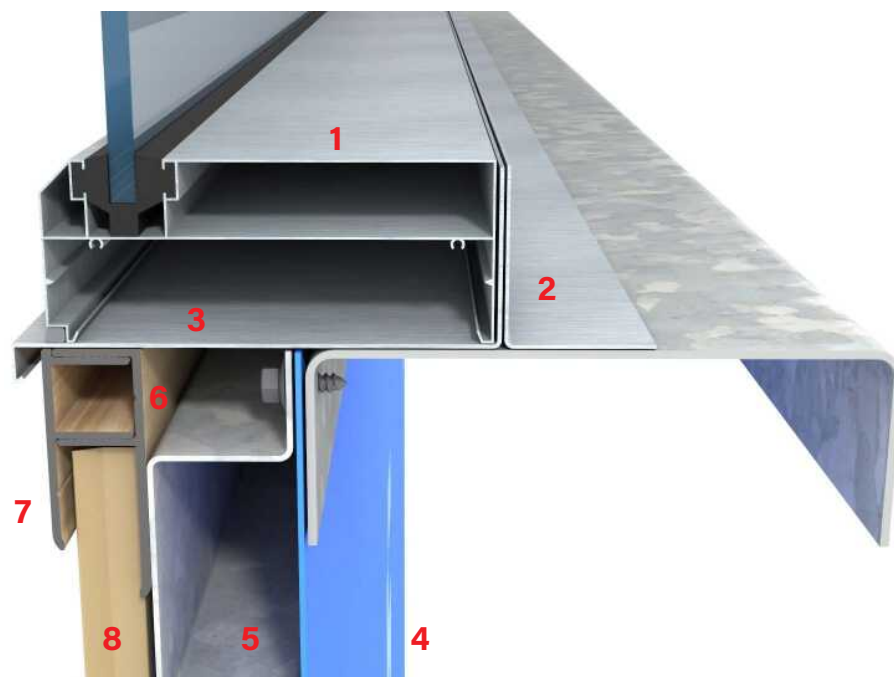
Typical Window Head Detail

1. Window Frame
2. Window Support
3. Window Sill
4. Weather Barrier
5. Horizontal Top Hat
6. Cover Finisher Profile
7. Base Finisher Profile
8. Vertical Cladding Board



Typical Window Sill Detail

1. Window Frame
2. Window Support
3. Window Sill
4. Weather Barrier
5. Horizontal Top Hat
6. Cover Finisher Profile
7. Base Finisher Profile
8. Vertical Cladding Board



Typical Window Installation

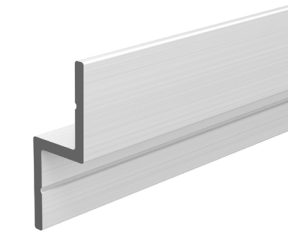
Accessories required:



Cover Finisher Profile



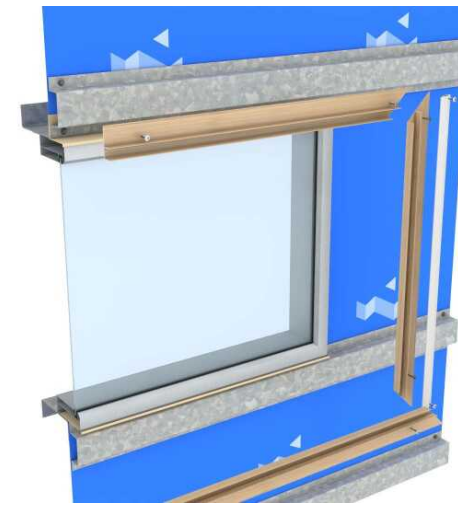
Base Finisher Profile



Z Support Profile



Micro Flat Head Screw



Step 1. Screw Female Finisher Profile above the Head and on the sides of the window. Install Z Support Profile on the side of the window.



Step 2. Install vertical cladding boards. It may be necessary to cut cladding boards to fit the shape of the window.



Step 3. Click Male Finisher Profile into Female Finisher Profile.



Step 4. Repeat process for other windows.

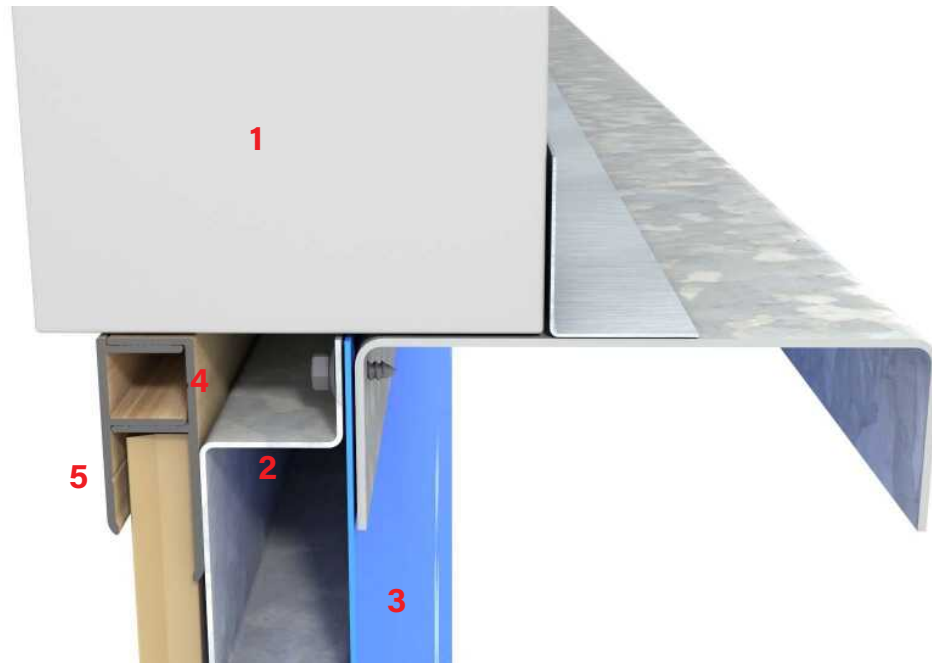
Alteria tip

Corners

Mitre the corners of the Finisher Profile to create a streamlined corner edge around the top of the window.

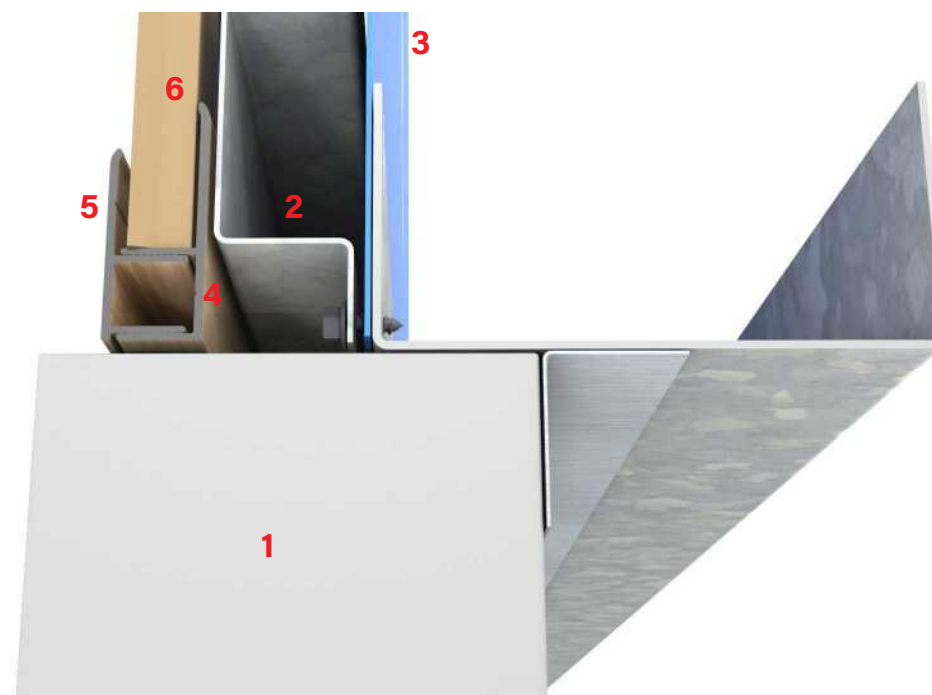
Typical Penetration - Top

1. Penetration Box (or similar)
2. Horizontal Top Hat
3. Weather Barrier
4. Cover Finisher Profile
5. Base Finisher Profile
6. Vertical Cladding Board



Typical Penetration - Bottom

1. Penetration Box (or similar)
2. Horizontal Top Hat
3. Weather Barrier
4. Cover Finisher Profile
5. Base Finisher Profile
6. Vertical Cladding Board



Typical Penetration Installation

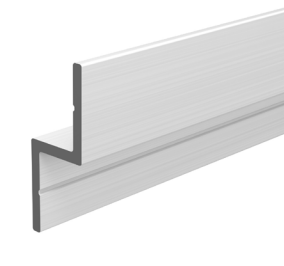
Accessories required:



Cover Finisher Profile



Base Finisher Profile



Z Support Profile



Micro Flat Head Screw



Step 1. Screw Female Finisher Profile above the Head and on the sides of the penetration. Install Z Support Profile on the side of the penetration.



Step 2. Install vertical cladding boards. It may be necessary to cut cladding boards to fit the shape of the penetration.



Step 3. Click Male Finisher Profile into Female Finisher Profile.



Step 4. Repeat process for other penetrations.

Alteria tip 

Corners

Mitre the corners of the Finisher Profile to create a streamlined corner edge around the top of the penetration.

Top Hat Span Tables for Alteria Aluminium Cladding

The table data provide the recommended and maximum spacings for Top Hats for Alteria Aluminium Cladding wall & ceiling applications. The project engineer is responsible for determining the appropriate wind pressures for the project and must also specify the fixing of the top hats to the structure.

Note: Screws can be substituted to Iccon brand equivalent. Contact our key distributor Trumark for advice.

FIXING SPACING: For 125mm & 180mm Cladding Range

	Wind Region A	Wind Region B	Wind Region C
Steel Stud 0.55 BMT	Single Fixing	Single Fixing	Single Fixing
	Buildex #14-12 CyclonicZips	Buildex #14-12 CyclonicZips	Buildex #14-12 CyclonicZips
	1200	950	800
Steel Stud 0.75 BMT	Single Fixing	Single Fixing	Single Fixing
	Buildex #14-12 CyclonicZips	Buildex #14-12 CyclonicZips	Buildex #14-12 CyclonicZips
	1200	950	800
Steel Stud 1.0 BMT	Single Fixing	Single Fixing	Single Fixing
	Buildex #14-12 CyclonicZips	Buildex #14-12 CyclonicZips	Buildex #14-12 CyclonicZips
	1200	950	800
Timber F7 pine	Single Fixing	Single Fixing	Single Fixing
	Buildex #14-12 CyclonicZips	Buildex #14-12 CyclonicZips	Buildex #14-12 CyclonicZips
	1200	950	800
Timber F17 hardwood	Single Fixing	Single Fixing	Single Fixing
	Buildex #14-12 CyclonicZips	Buildex #14-12 CyclonicZips	Buildex #14-12 CyclonicZips
	1200	950	800
Concrete N≥25	Single Fixing	Single Fixing	Single Fixing
	RAMSET WERCS AnkaScrew #8	RAMSET WERCS AnkaScrew #8	RAMSET WERCS AnkaScrew #8
	1200	950	800
Solid brick	Single Fixing	Single Fixing	Single Fixing
	RAMSET WERCS AnkaScrew #8	RAMSET WERCS AnkaScrew #8	RAMSET WERCS AnkaScrew #8
	1200	950	800
3 hold brick	Single Fixing	Single Fixing	Single Fixing
	RAMSET WERCS AnkaScrew #8	RAMSET WERCS AnkaScrew #8	RAMSET WERCS AnkaScrew #8
	1200	950	800
Concrete block	Single Fixing	Single Fixing	Single Fixing
	RAMSET WERCS AnkaScrew #8	RAMSET WERCS AnkaScrew #8	RAMSET WERCS AnkaScrew #8
	1200	950	800

Storage and Handling

Unloading

- Use forklift to unload from truck
- Ensure panel ends do not overhang from the forklift arms more than 2.5m

Taking from the stack

- Do not pull or slide over the stack
- For lengths that are less than 6m, ensure they are lifted from both ends
- For lengths that are longer than 6m, they should be lifted from both ends and the middle

Storing

- Do not stack battens or claddings more than 1m in height
- Never step on or walk over battens or claddings
- If storing for long periods of time, do not fully cover the stack to avoid condensation
- Store under cover away from rain or humidity

Care & Maintenance

Cleaning

Alteria Aluminium batten and claddings are low maintenance systems that require minimal cleaning, especially when compared to timber or steel. To help maintain the integrity of the powder coated finish, it is necessary to consider the care and maintenance requirements.

The best method of cleaning is by regular washing of the coating using a solution of warm water and non-abrasive, pH neutral detergent solution. Surfaces should be thoroughly rinsed after cleaning to remove all residues. All surfaces should be cleaned using a soft cloth, sponge or a soft natural bristle brush.

Frequency of Cleaning

The required frequency depends on the geographic address of the building, the environment surrounding the building, the location of the products and what standard of appearance is required. It is also important to consider what atmospheric pollution (including salts) and any prevailing winds and the possibility of air borne debris causing erosive wear of the powder coating.

For full details of the required cleaning and maintenance schedule needed for warranty purposes please refer to the Alteria Care & Maintenance document.

About Alteria Signature Aluminium Systems

Alteria Signature Aluminium Systems has been designed and developed for the design and construction industry. With decades of experience working with Architects and Designers, coupled with our in-depth relationship with builders and contractors, we saw an opportunity to create a proprietary range of aluminium battens and claddings that stood out from the rest – this is how *Alteria Signature Aluminium Systems* was created.

Which means when you specify Alteria Signature Aluminium battens and claddings, you are getting more than just an aluminium product, you are getting a complete *Signature Aluminium System*. Alteria includes a curated range of proprietary batten and cladding profiles that have been designed with all the complementary accessories and trims to ensure not only a more efficient installation, but a facade that will look good and last for years to come. Alteria have also developed all the necessary system support documents including install guides, product data sheets and warranty documents.

But with Alteria, it is not just about offering a range of high quality, Signature Aluminium Systems. Alteria also provides the complete *Signature Service* for our customers.

Working with Alteria

The essence of Alteria's *Signature Service* is to help make your build easier, which means you will have a dedicated Alteria Signature Team who will get to know you and your project from your first product enquiry through to install.

Your Signature Project Team will be there to assist you and your build team. They will work with you to understand your project needs and requirements and will be with you every step of the way from providing quoting, technical advice, specification support, product & system supply/delivery, installation advice, on-site and after sale support and much more.

Although the Alteria name might be new, you can rest assured knowing that our team has decades of experience in the design and construction industry, and our dedication to a Signature System and a Signature Service will lead to the best outcomes for your project.

Disclaimer

The information in this document is a guide only. It is intended for use by builders, cladding installers and other contractors who may be involved with the installation of the Alteria Aluminium fixing system.

If you are an installer ensure that you follow the design, moisture management detail, preparation requirements and materials as set out by the designer. If you are a specifier or a responsible party for the project, please ensure the information in this manual is appropriate for the application you are planning.

As all project conditions are unique, there are likely to be variations to how this product is used, which can affect the use and quality of the products, as such no warranty is given or implied with respect to such situations.

As most of our projects are supply only, we do not have access to all details relating to the final product application, and as such, we can not be held liable for ensuring "fit for purpose" on any given project.

This document is for technical advice only. Alteria cannot accept liability for any inaccurate information within this document or the consequential losses that occur as a result.

Alteria's policy is on of continuous improvement. We therefore reserve the right to alter specifications at any time and without notice. Colours and textures may vary according to light and weather conditions. Owing to this and limitations of the printing process, colours in this brochure may vary.

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In case of doubt, please contact Alteria.

For further support or advice on Alteria please contact our technical support team:

1300 258 825

support@alteria.com.au

alteria.com.au



ALTERIA

SIGNATURE ALUMINIUM SYSTEMS

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