ALTERIA

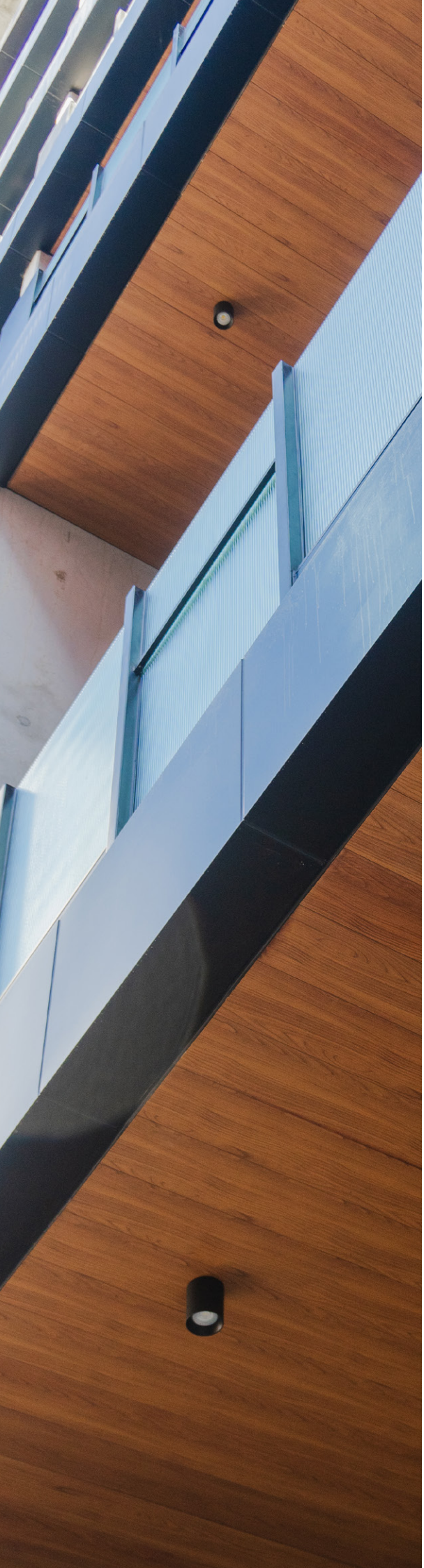
SIGNATURE ALUMINIUM SYSTEMS

CLADDING RANGE

INSTALLATION GUIDE

Version 2.0

alteria.com.au



CONTENTS

With a range of proprietary profiles, Alteria Signature Aluminium Cladding 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.

Interlocking Cladding Boards – Contemporary

125mm

180mm

Interlocking Cladding Boards – Designer

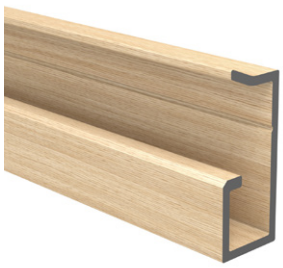
150mm Cove 30

150mm Cove 50

180mm Castellated 30

Accessories & Trims

Starter Profile



Joiner Profil - Two Piece

Finisher Profile - Two Piece

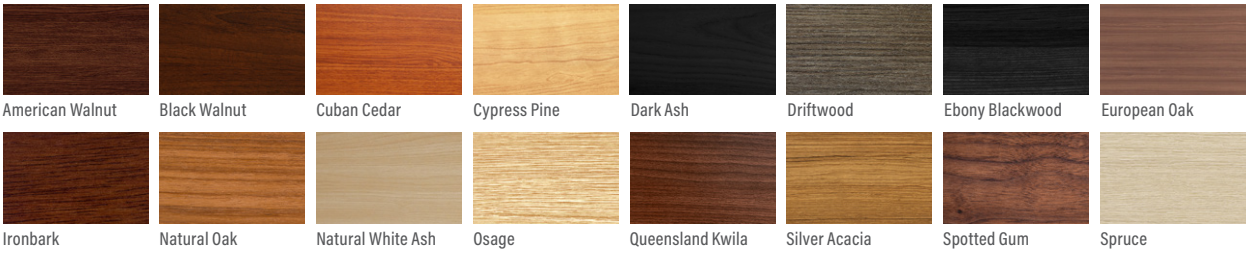
Corner Profile - Two Piece

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.

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.

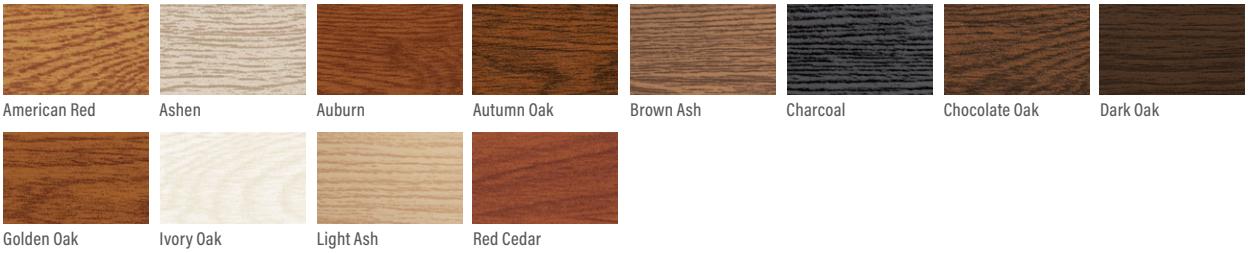
Evoke Range

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



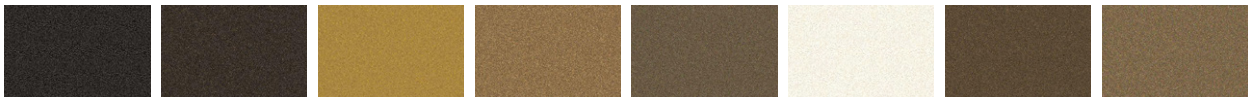
Meridian Range

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



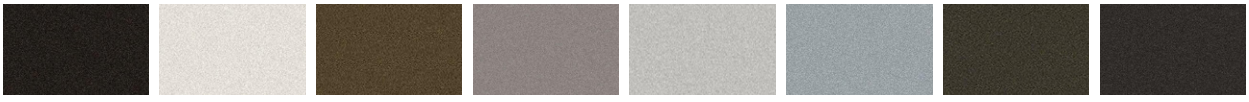
Aurora Range

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.

Visit **alteria.com.au**

Alteria Signature Aluminium claddings are suitable for installation in horizontal or vertical wall & ceiling/soffit applications for both external and internal applications and meets the requirements of AS 1562.1 when installed according to these guidelines.

Vertical

See pages 12-21 for Installation Details

Horizontal

See pages 22-31 for Installation Details

Ceiling/Soffits

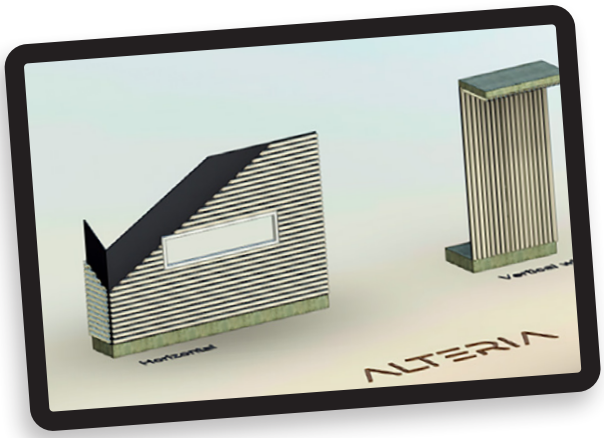
See page 21 for Horizontal Installation Details. See page 31 for Vertical Installation Details.

Technical Supplement: Span & Fixing Detail - Claddings

Alteria Aluminium has developed a technical supplement that includes fastener details and maximum fixing spacing span data for our cladding range.

The supplement has been designed to be used in conjunction with this Installation Guide.

The most recent version of the *Technical Supplement: Span & Fixing Detail - Battens & Slats* document can be found on the Alteria Aluminium website at *alteria.com.au/resources*

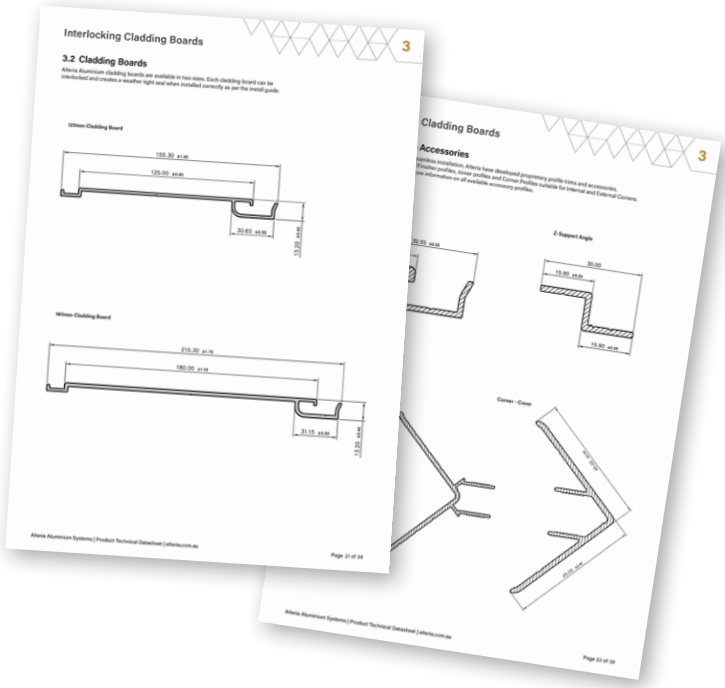


BIM Files

Alteria have developed a range of BIM files that include 2D details/drafting views accompanied by 3D content and our full suite of finishes and colours. BIM Files are available on request or at *alteria.com.au/resources*

Technical Data Sheets

Please refer to our Technical Data Sheets for full technical details on Alteria Aluminium Battens & Slats. Available on request or at *alteria.com.au/resources*



NCC Compliance

The National Construction Code of Australia (NCC) sets the minimum requirements for safety, health, amenity, and sustainability in the design and construction of new buildings and building work in existing structures across Australia.

Alteria Aluminium claddings have been designed, tested, and manufactured to withstand the country's demanding climatic and geographic conditions. They offer building designers, builders, and owners with confidence that they are specifying a product that meet the requirements of the National Construction Code of Australia and the relevant Australian Standards for both residential and non-residential buildings.

Alteria Aluminium claddings have been tested to comply with the following BCA Provisions:

- Weatherproofing - Wall Cladding - see below
- Non-Combustible Building Elements - see pg 6
- Fire Hazard Properties - see pg 6

Weatherproofing – Wall Cladding complying with AS 1562.1

Alteria Aluminium comply with NCC deemed to satisfy provisions for F3D5 (Volume 1) and H2D6 (Volume 2) for Weatherproofing – Wall Cladding, complying with AS1562.1

Alteria's cladding system meets the requirements of AS 1562.1 when installed according to these guidelines.

Standard	Reviewed by	Date	NCC Provision	Result
AS 1562.1:2018	Acronem Consulting Australia Pty Ltd	Mar 2025	AS 1562.1 and DTS F3D5 & H2D6(4).	Appraisal Report providing certification that Alteria Cladding System is in accordance with the below Wind Load specifications & AS 1562.1:2018 and demonstrates that the product is compliant with AS 1562.1 and F3D5 & H2D6(4)

Wind Load Specifications

Alteria have demonstrated through certification in accordance with the below standards that Alteria Aluminium meets compliance with AS 1562.1 and F3D5 & H2D6(4).

Standard	Reviewed by	Date	NCC Provision	Result
AS/NZS 1170.0:2002	Acronem Consulting Australia Pty Ltd	Mar 2025	AS 1562.1 and DTS F3D5 & H2D6(4).	Creation of Maximum Fixing Spacing Table Report that provides calculations in relation to the maximum batten spacing / fixing spacing tables for the purposes of meeting compliance with AS 1562.1 and F3D5 & H2D6(4)
AS/NZS 1170.1:2002	Acronem Consulting Australia Pty Ltd	Mar 2025	AS 1562.1 and DTS F3D5 & H2D6(4).	
AS/NZS 1170.2:2021	Acronem Consulting Australia Pty Ltd	Mar 2025	AS 1562.1 and DTS F3D5 & H2D6(4).	
AS/NZS 1664.1 - 1997	Acronem Consulting Australia Pty Ltd	Mar 2025	AS 1562.1 and DTS F3D5 & H2D6(4).	

A copy of the *Technical Supplement: Span & Fixing Detail - Battens & Slats* document can be found on the Alteria Aluminium website at alteria.com.au/resources

Non-Combustible Building Elements

Alteria Aluminium comply with NCC deemed to satisfy provisions for C2D10(1)(a) (Volume 1) and H3D2 (Volume 2) for Non-combustible building elements and have the received testing reports from accredited testing laboratories.

Standard	Reviewed by	Date	NCC Provision	Result
AS 1530.1-1994	CSIRO	Oct, 2023	DTS C2D10 & DTS H3D2	Combustibility Test for Material demonstrates the product Alteria Aluminium is NOT deemed COMBUSTIBLE
AS 1530.3-1999	CSIRO	Dec, 2023	DTS C2D10	**Ignitability Index**: 0 **Spread of Flame Index**: 0 **Heat Evolved Index**: 0 **Smoke Developed Index:** 2

Fire Hazard Properties

Alteria Aluminium comply with NCC deemed to satisfy provisions for C2D11 for Fire Hazard Properties and have the received testing reports from accredited testing laboratories.

Standard	Reviewed by	Date	NCC Provision	Result
AS 5637.1-2015	BRANZ	Nov, 2023	DTS C2D11	**Classification** Group 1 **Smoke Growth Rate Index** Less than 250 m2/kg limit **Mean Average specification Extinction Area** 138.9 m2/kg
AS 1530.3-1999	CSIRO	Dec, 2023	DTS C2D11	**Ignitability Index**: 0 **Spread of Flame Index**: 0 **Heat Evolved Index**: 0 **Smoke Developed Index:** 2

For more information or a copy of our certifications, please contact us on 1300 25 88 25 or support@alteria.com.au

Preparation Considerations

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.

Compliance

All design and construction must comply with the current NCC Building Code of Australia. NCC requirements vary by building type and should be considered during design to ensure compliance. This installation guide serves as a reference only. The building surveyor or certifier must review and approve the information before installation begins, ensuring the project meets NCC standards and specific requirements..

See page 5 for details on compliance and certifications for Alteria products.

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

Substructure

Alteria Aluminium Cladding Boards are to be fastened to top hats, which must be securely attached to a suitable substructure. The substructure may consist of concrete walls, steel girts, timber, or 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.

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.

Control Joints

Control Joints in building construction is a planned, intentional gap or separation in materials designed to accommodate movement caused by expansion or contraction. It is the responsibility of the builder designer to advise when control joints need to be installed.

For installation details on control joints for horizontal applications go to page 19. For installation details on control joints for vertical applications go to page 29.

Wall Sarking Requirements

To ensure adequate weather– tightness, it is important for builders and designers to use the appropriate moisture management required for the project. 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

To meet the requirements of AS1562.1, a vapour-permeable membrane must be installed beneath all external wall systems, including Alteria Aluminium cladding. This membrane enables moisture vapour to escape from inside the building while blocking liquid water from entering.

Sarking products must meet the standards below.

Material Standard	AS/NZS 4200.1
Installation Standard	AS 4200.2

Compliant Sarking Brand Suggestion: Trumark Vapagard™ Building Membrane - a premium 3-layer, vapour-permeable membrane designed for both commercial and residential walls and roofs and effectively blocks water and dust, protecting the building's structure.

Sarking Tape

Compliant Sarking Brand Suggestion: Vapagard UV Façade Tape that can be used with compliant building membranes and offers excellent long term adhesion properties.

Orientation & Applications

Alteria Aluminium claddings can be installed horizontally (see page 11 for details) or vertically (see page 21 for details) and are suitable for both internal and external applications.

Soffit/Ceilings

Alteria Aluminium cladding boards can be used for ceilings and soffits. See page 20 for horizontal installation details and page 30 for vertical installation details.

Cladding Length

All cladding boards and accessories come in standard 6500mm lengths.

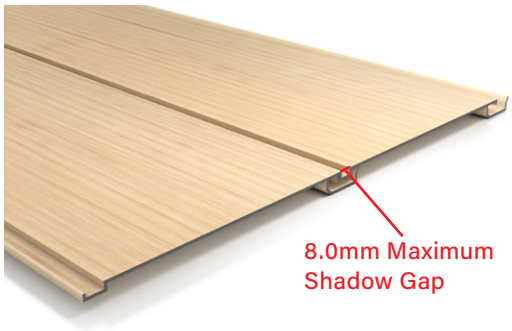
Please note that the available usable length of the board is 6450mm, due to the production process.

Please check both ends of the board 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.

Shadow Gap

The maximum shadow gap of two interlocking boards is 8.0mm.

Shadow gap line can be made smaller to meet design requirements by moving boards closer together.



Cladding Trims & Accessories

To ensure a 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. See page 9 for more information.

Fixing Distances

Alteria Aluminium cladding boards have specific maximum fixing spacings that must be followed. Span Table data has been developed for the range. See page 8 for more information.

Fixing Spacings & Span Tables

Each Alteria cladding size has specific maximum fixing spacings that must be followed.

Span Table data has been developed for the range in a our *Technical Supplement: Span & Fixing Detail - Claddings Report* which is designed to be used in conjunction with this Installation Guide.

The Technical Supplement provides maximum fixing spacings that is specific to the profile type, project location, wind region and fixing method selected.

A copy of our *Technical Supplement: Span & Fixing Detail - Claddings* document can be found on the Alteria Aluminium website at *alteria.com.au/resources*

Top Hat Framing & Spacings

Alteria Aluminium Cladding Boards are to be fastened to top hats, which must be securely attached to a suitable substructure. The substructure may consist of concrete walls, steel girts, timber, or masonry.

Packers can be used to ensure top hats are level.
The orientation of the top hats will depend on the desired orientation of the cladding boards.

Vertical Cladding Installation will require horizontal top hat orientation.

Horizontal Cladding Installation will require vertical top hat orientation. If the support substructure is also vertically aligned, begin by installing horizontal top hats, then follow with vertical top hats to properly support the cladding boards.

Below table indicates the top hat size, type and spacing required.

Top Hat BMT	Top Hat Size	Top Hat Spacings
0.75mm Steel Top Hat Battens	Minimum 50 x 15mm	600mm Centres

Fixing Screws - Top Hats

Fastener Types

Top Hats are to be fixed to substructure using suitable fasteners as follows. Screws can be substituted to alternative brand if they meet the equivalent standards.

Substructure	Top Hat Fastener
Steel	ICCONS SD Hex Class 4 14-11
Timber	ICCONS Type 17 Hex Class 4 14-10
Concrete / Masonry / Concrete Block	ICCONS Thunderbolt Pro Hex 8mm

Fastener Requirements

The table below outlines the number of fixings required to secure the top hat to the substrate, for both perimeter and internal connections.

Perimeter Connections	Internal Connections
2 screws per top hat	4 screws per top hat

Fixing Screws - Cladding Boards/Trims

Cladding boards and cladding trims are to be fixed to top hats using suitable fasteners as follows. Screws can be substituted to alternative brand if they meet the equivalent standards.

Cladding Fasteners	Fastener Requirements
Iccons Self Drilling Flathead Class 3 10-16 X 22	1 screw per fixing

Important: It is crucial that the top hat fastener does not penetrate the weather barrier. Ensure the fastener is of sufficient length to prevent this from occurring.

Alteria Aluminium Cladding Profiles & Accessories

Alteria Cladding Board

Interlocking aluminium cladding board - available in Contemporary & Designer profiles.

See page 1 for sizes.

Length: 6500mm

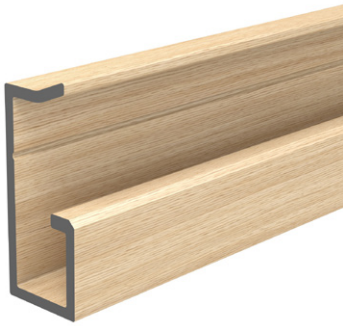
Corner Profile – 2 Piece

Reversible Two Piece Corner Profile designed to conceal both internal and external corner details.

Starter Profile

The starter piece serves as the initial support for the first row of cladding, ensuring alignment, stability and moisture protection.

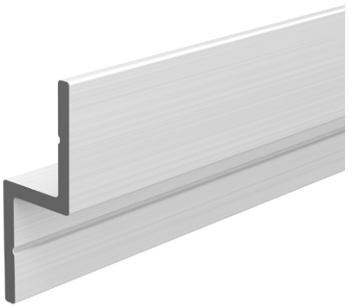
Length: 6500mm



Z Support Profile

Z Profile can be used to reinforce the cut edge of a cladding board if required.

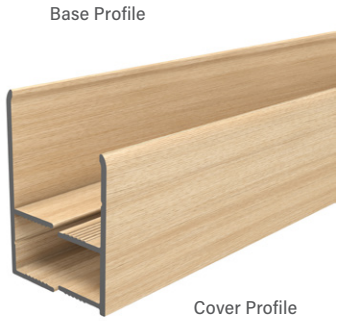
Length: 6500mm



Finisher Profile – 2 Piece

Two Piece Finisher Profile is required to secure the final row and edges, providing moisture protection and a seamless finish.

Length: 6500mm



Cladding Screw

Iccons Self Drilling Flathead Class 3 10-16 X 22 Screw.

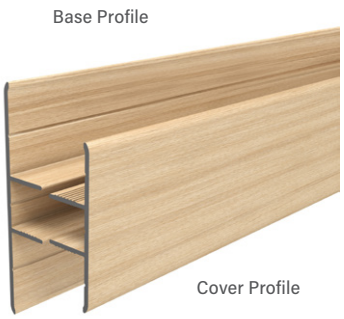
Used to secure cladding and trim profiles to top hats.

See page 8 for details.

Joiner Profile – 2 Piece

Two Piece Joiner Profile is required to seamlessly connect two cladding boards, providing moisture protection and a seamless finish.

Length: 6500mm



Top Hat Fixing Screw

Top hats need to be fixed securely to suitable substrate using specific fasteners depending on the substrate material.

See page 8 for details.

There are various layout and design options available for Alteria Aluminium claddings.

Prior to installation, it is important to consider the panel orientation, layout and design in conjunction with the building conditions. Typical install options shown below.

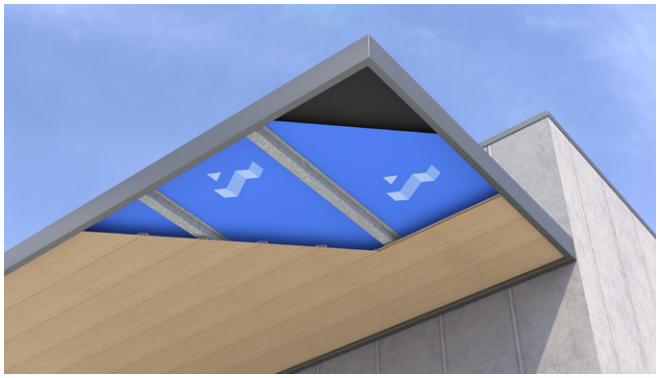
Alteria's interlocking cladding system meets the requirements of AS 1562.1 when installed according to these guidelines and provides a weatherproof and structural cladding solution. See page 6 for details.

Cladding – Horizontal

See page 11 for installation details.

Cladding – Vertical

See page 21 for installation details.



Ceilings/Soffits – Horizontal

See page 20 for installation details.

Ceilings/Soffits – Vertical

See page 30 for installation details.

Try our online Product Visualiser

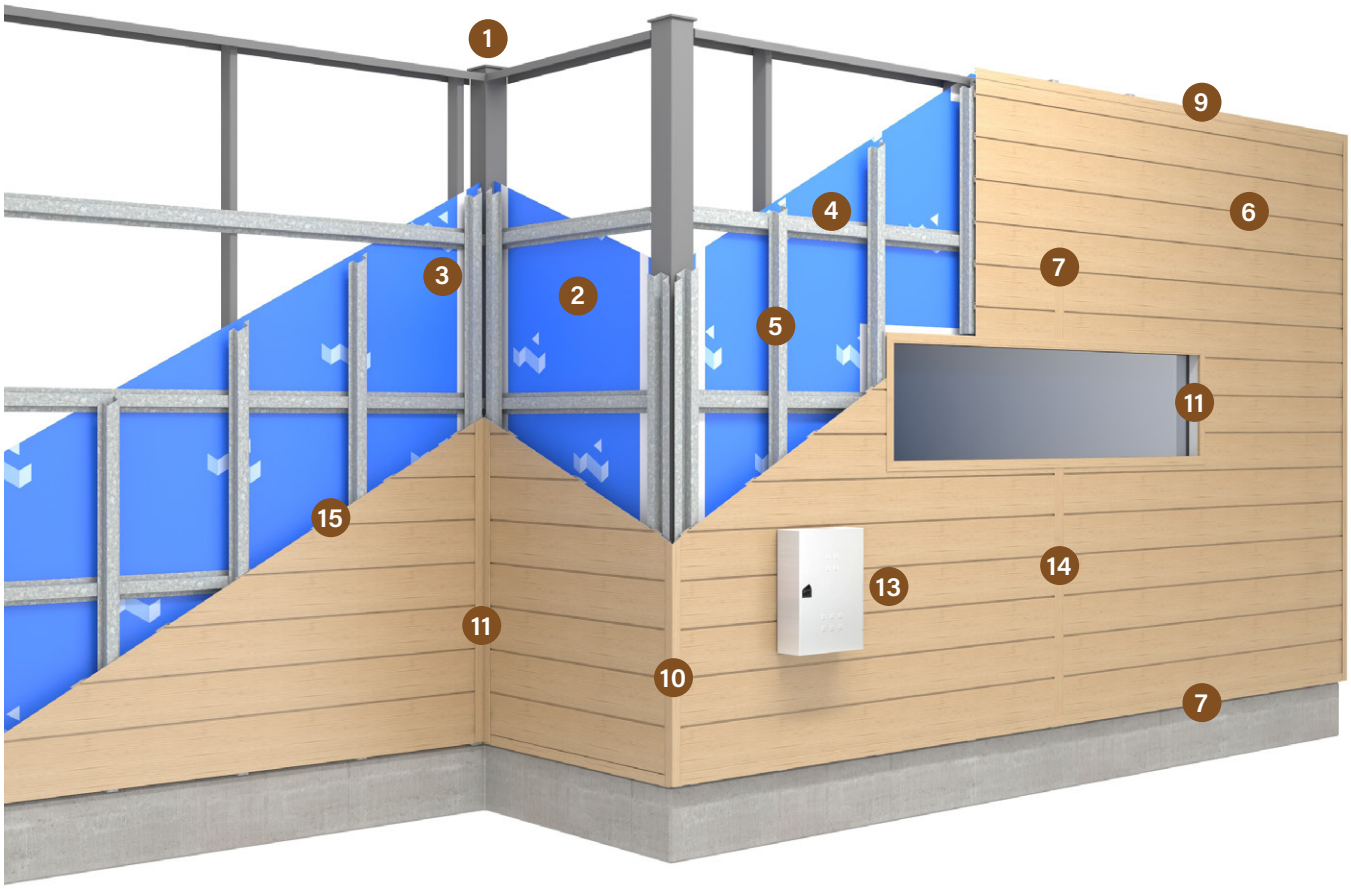
See all of Alteria's cladding & battens in various layout and finish options on our online Product Visualiser.

Visit alteria.com.au

Cladding Install Overview - Horizontal

This section provides advice on horizontal cladding installation, including finishing details such as corners, windows and control joints.

See pages 7-8 for preparation and design considerations.



Alteria tip

Install Trims First

After installing the starter profile and prior to installing cladding boards, first fit any two-piece base profile trims, including the finisher, corner, and joiner profiles.

Universal Cladding Installation Process

The installation process for cladding boards is the same across all profiles and sizes, including the castellated and coved ranges.

Starter Detail

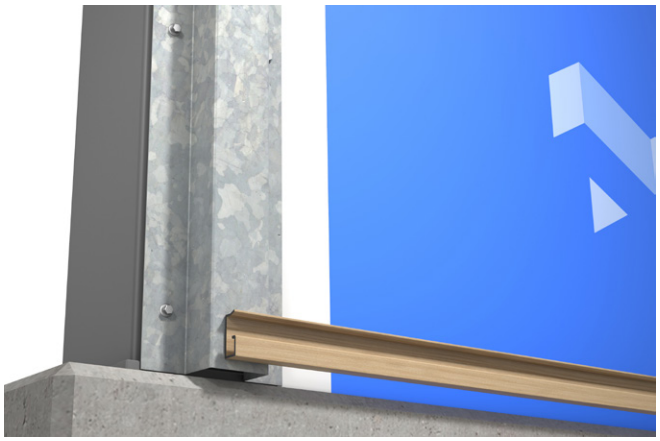
For Horizontal cladding, the Alteria Starter Profile is required at the bottom of the wall or structure to connect the first cladding board into place.

Alteria Required Accessories

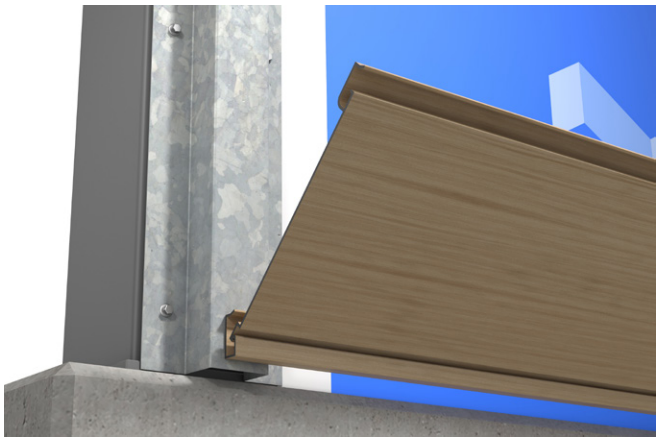
Alteria Cladding Board
Any size or profile

Starter Profile

Cladding Screw
See page 8 for details



Step 1. Prepare substructure and top hat framing. See page 6-7 for details. Begin at the bottom of the wall or structure and screw the starter profile into the top hat.



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

Step 3. Screw cladding board to structure.

Step 4. Repeat process for remaining cladding boards.

Alteria tip

Install Trims First

After installing the starter profile and prior to installing cladding boards, first fit any two-piece base profile trims, including the finisher, corner, and joiner profiles.

Cladding Shadow Lines

Alteria 125mm & 180mm Cladding boards offer a maximum 8.0mm shadow line between connected boards. It is possible to make the shadow line smaller to suit your design requirements by moving boards closer together. There is no shadow line for the Castellated and Coved Cladding Ranges.

Joiner Detail

The Alteria two-piece Joiner Trim consists of a cover and base component designed to conceal the joint between two horizontal cladding boards.

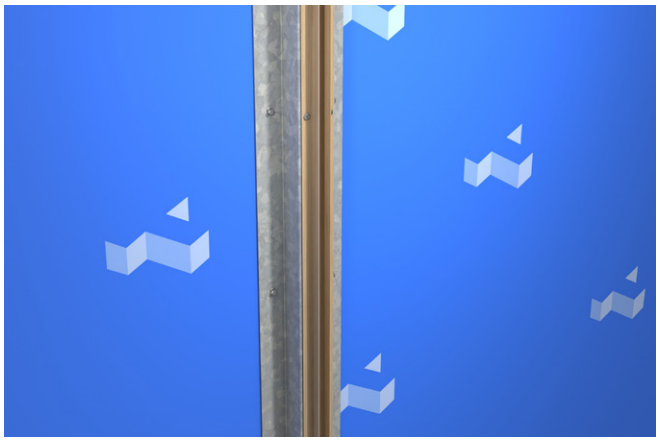
This two-piece trim is reversible, which means either piece can be used as the base or cover. See below for more information.

Alteria Required Accessories

Alteria Cladding Board
Any size or profile

Two Piece Joiner Profile

Cladding Screw
See page 8 for details



Step 1. Secure the Base Joiner Trim to the centre of the top hat.

Step 2. Install the cladding boards on either side of the Base Joiner Trim and secure the boards in place. Add a 5mm gap between boards and trim.

Step 3. Snap the Cover Joiner Trim into position over the joint.

Note: Leave a minimum 5mm gap between cladding boards and the connecting leg of the Joiner on both sides.

Alteria tip

Reversible Two-Piece Joiner Profile

The Two-Piece Joiner Profile is reversible, allowing either profile to be used as the cover piece to suit your design preference. It is important to check prior to installation that the Joiner piece you select for the cover will appropriately conceal cladding board and trims.

Finishing Detail

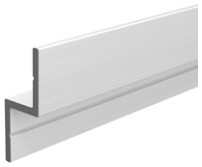
The Alteria two-piece Finisher Profile consists of a reversible base and cover trim and is used at the top and sides of the wall to conceal all edges of the cladding board.

Two installation methods are available, depending on whether you are using a full-size cladding board or a cut-to-size board.

Alteria Required Accessories

Alteria Cladding Board
Any size or profile

Two Piece
Finisher Profile



Z Support Profile
Top of structure only

Cladding Screw
See page 8 for details

FULL SIZE CLADDING BOARD

Step 1. For full-size cladding boards, use the wider profile as the cover to ensure complete coverage of the cladding board. Secure the Finisher Profile to the center of the top hat.

Step 2. Position the cladding boards on either side of the Base Joiner Trim and secure the boards in place. Leave a 5mm gap between cladding boards and the connecting leg of the Finisher piece.

Step 3. Snap the Cover Joiner Trim into position over the joint.

CUT TO SIZE CLADDING BOARD

Step 1. Secure the Base Finisher Profile to the center of the top hat, and then secure the Z Support Profile beneath the Finisher Profile.

Step 2. Position the cut-to-size cladding board on top of the Z Support Profile and secure the board in place. Leave a 5mm gap between cladding boards and the connecting leg of the Finisher piece.

Step 3. Snap the Cover Finisher Profile into position to cover the cladding board.

Alteria tip

Side Finisher Detail

A Finisher Profile is also used at the side of the wall using same process as above.

External Corner Detail

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 and base of the external corner.

Alteria Required Accessories

Alteria Cladding Board
Any size or profile

Two Piece
Corner Profile

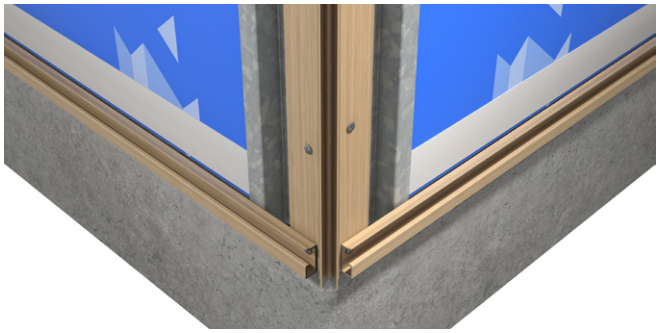
Two Piece
Finisher Profile

Starter Profile
Base of structure only

Z Support Profile
Top of structure only

Cladding Screw
See page 8 for details

BASE OF STRUCTURE

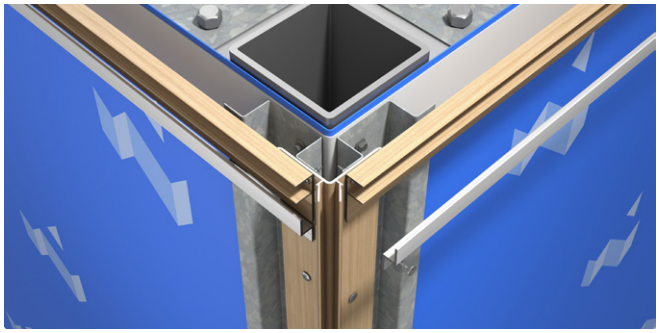


Step 1. Secure the Corner Profile, followed by the Starter Profile.
Note: For external corners, it is necessary to invert the top hats at the corners to provide better screw placement of the Corner Profile.

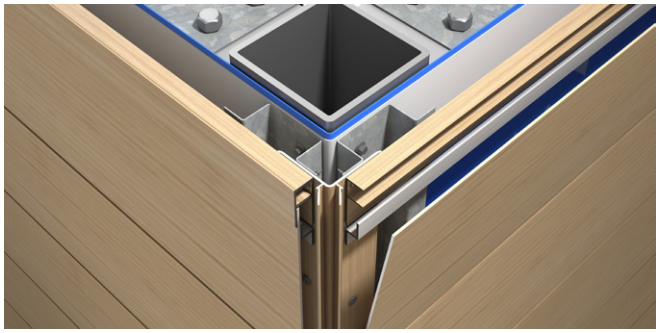
Step 2. Insert first cladding boards into Starter Profile and continue installation up both sides of the corner. Leave a 5mm gap between Starter Profile and Corner Profile.

Step 3. Install cladding boards and snap in the Corner Profile Cover to conceal the corner.

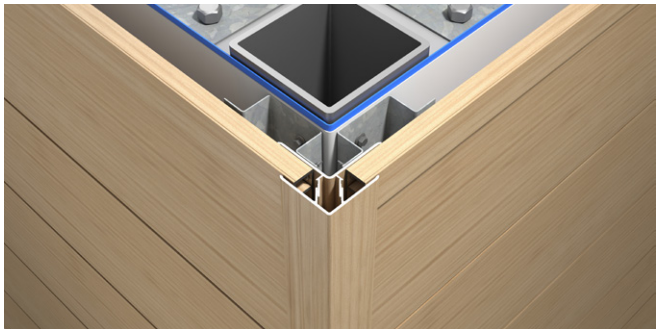
TOP OF STRUCTURE



Step 1. Secure the Corner Profile, followed by the Base Finisher Profile.
Note: For external corners, it is necessary to invert the top hats at the corners to provide better screw placement of the Corner Profile.



Step 2. Secure the Z profile and ensure to leave a 5mm gap on both sides of the corner.



Step 3. Snap the Cover Joiner Trim into position over the joint.

Internal Corner Detail

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 and base of the internal corner.

Alteria Required Accessories

Alteria Cladding Board
Any size or profile

Two Piece
Corner Profile

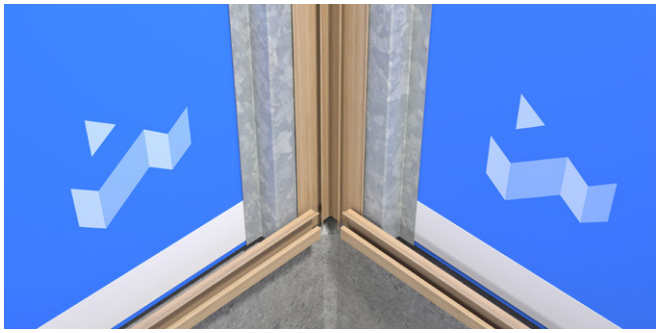
Two Piece
Finisher Profile

Starter Profile
Base of structure only

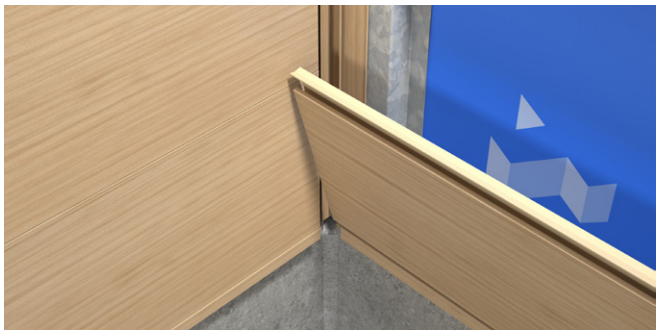
Z Support Profile
Top of structure only

Cladding Screw
See page 8 for details

BASE OF STRUCTURE



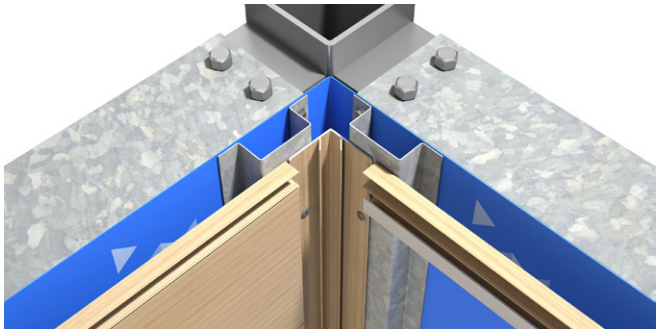
Step 1. Screw the Corner Profile to both sides of the corner structure. **Note:** Ensure screws have sufficient clearance to not interfere with Starter Profile. Screw the Starter Profile to the bottom corner.



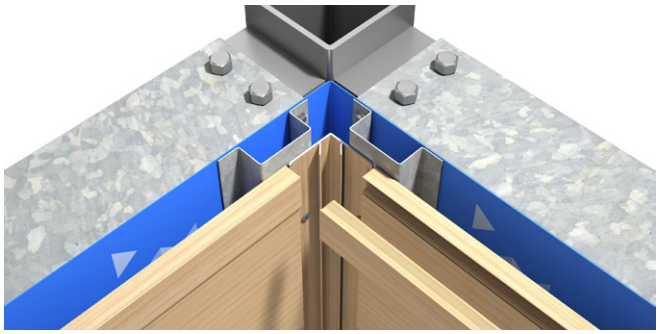
Step 2. Insert first cladding boards into Starter Profile and continue installation up both sides of the corner. Leave a 5mm gap between Starter trim and Corner Profile.

Step 3. Once all cladding boards have been secured, click the Cover Corner Profile into place to conceal corner.

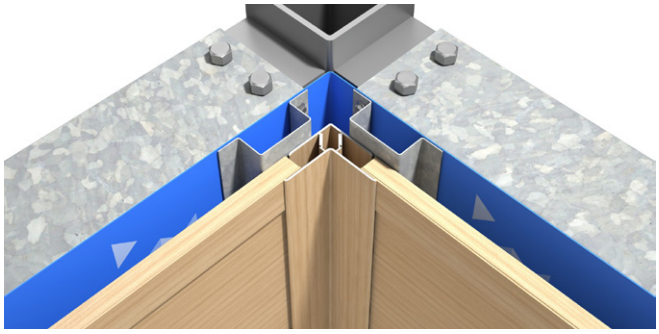
TOP OF STRUCTURE



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



Step 2. 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.

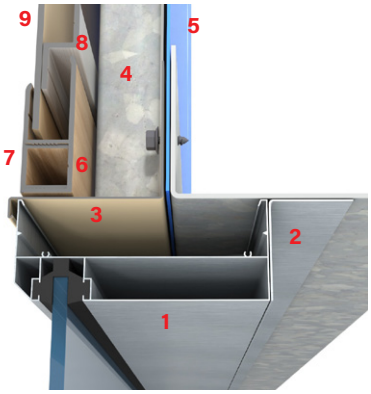


Step 3. Clip in the Cover Finisher Profile then click in the Cover Corner Profile to conceal corner.

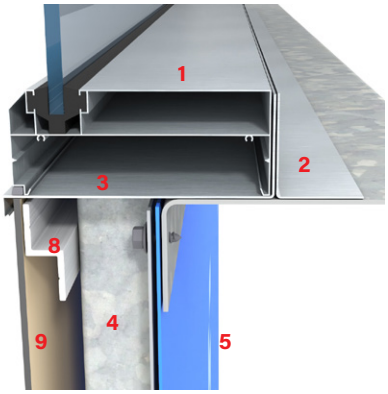
Window Detail

For cladding installation around windows, the Alteria two-piece Finisher Profile is used at the top and side of the window to conceal edge of the cladding board.

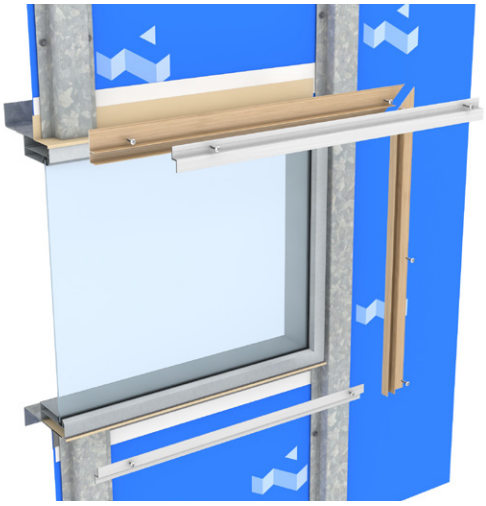
1. Window Frame
2. Window Support
3. Window Head / Sill
4. Top Hat
5. Weather Barrier & Sarking Tape
6. Base Finisher Profile
7. Cover Finisher Profile
8. Z Support Profile
9. Horizontal Cladding Board



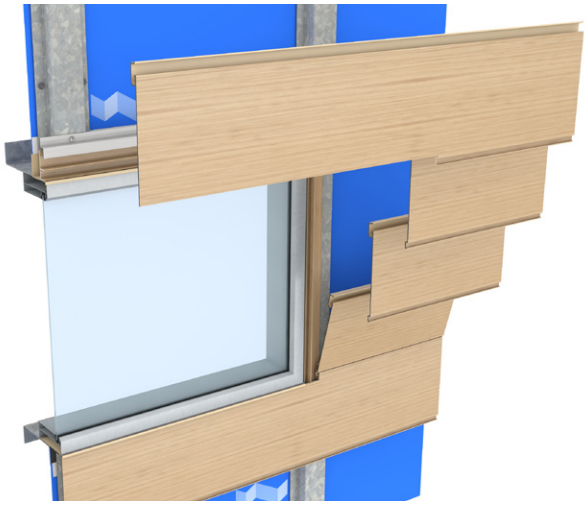
Base of window



Top of window



Step 1. Screw the Base Finisher Profile on the head and sides of the window, followed by the Z Support Profile.



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

Step 3. Click Cover Finisher Profile into Base Finisher Profile.

Alteria tip

Corners

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

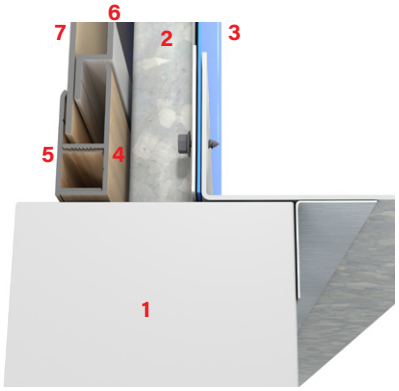
Finisher Profile

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

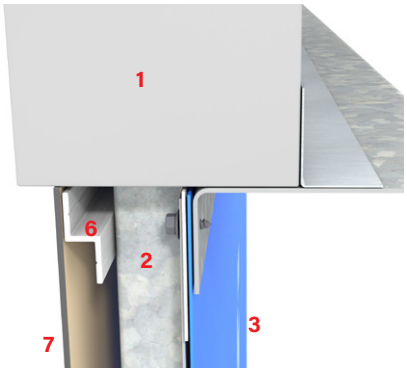
Penetration Detail

For cladding installation around penetration boxes, the Alteria two-piece Finisher Profile is used at the top and side of the window to conceal edge of the cladding board.

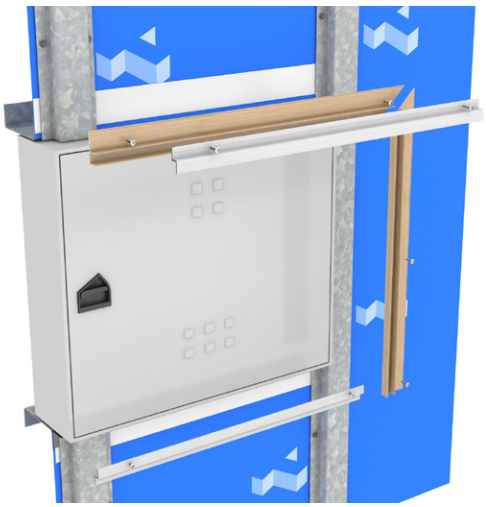
1. Penetration box (or similar)
2. Top Hat
3. Weather Barrier & Sarking Tape
4. Base Finisher Profile
5. Cover Finisher Profile
6. Z Support Profile
7. Horizontal Cladding Board



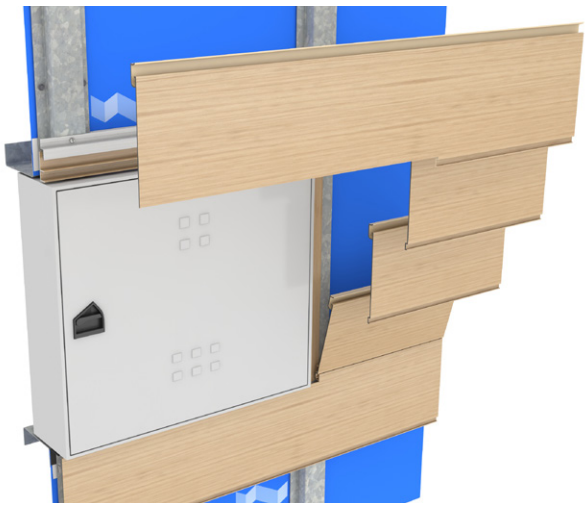
Base of window



Top of window



Step 1. Screw the Base Finisher Profile on the head and sides of the penetration, followed by the Z Support Profile.



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

Step 3. Click Cover Finisher Profile into Base Finisher Profile.

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 if required.

Control Joint

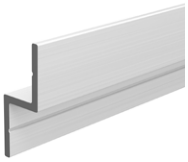
If required, horizontal and vertical control joints can be installed to horizontal claddings using Alteria's two piece joiner profile.

Alteria Required Accessories

Alteria Cladding Board
Any size or profile

Starter Profile

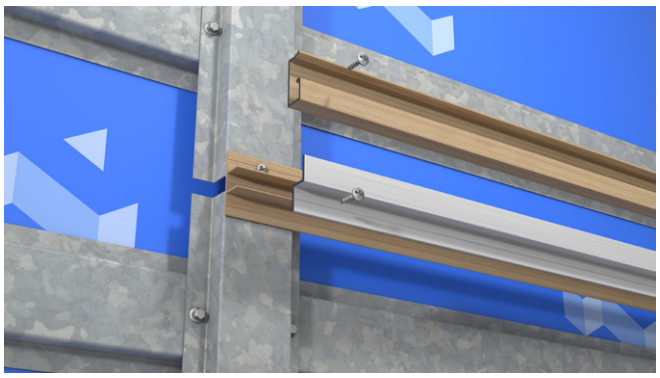
Two Piece Joiner Profile



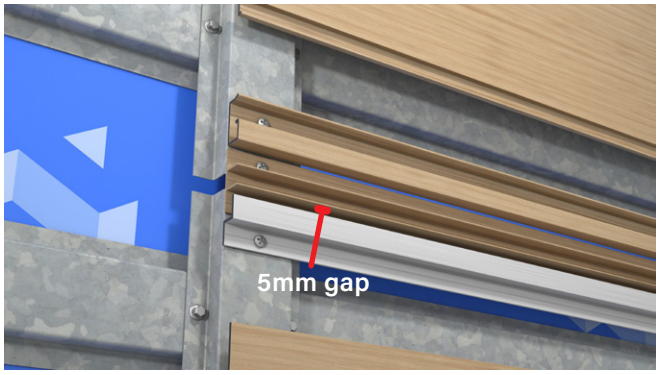
Z Support Profile
Vertical Horizontal Control Joint Only

Cladding Screw
See page 8 for details

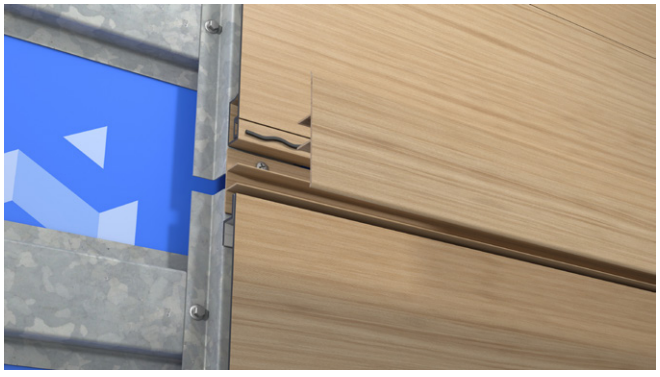
HORIZONTAL CONTROL JOINT



Step 1. At the Control Joint, Install narrower Joiner Profile and secure with adequate screw to top side only to allow for movement. Install Z Profile to support cladding board to base of control joint & Starter Profile at the top pf the control joint.

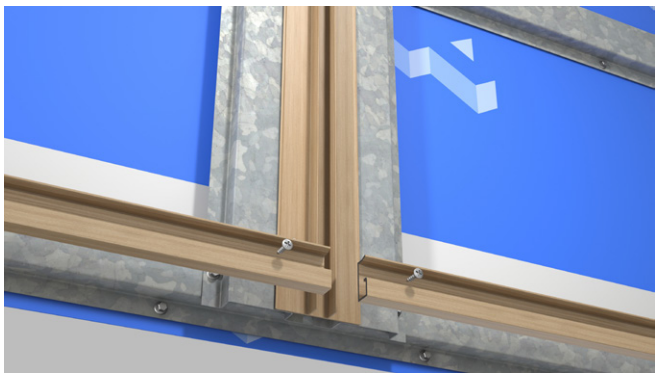


Step 2. Install cladding boards and leave a 5mm gap between Joiner Profile and Cladding Boards. Apply a bead of polyurethane adhesive sealant on the top side of the control joint only.



Step 3. Click in the Wider Joiner Profile.

VERTICAL CONTROL JOINT



Step 1. At the Control Joint, Install Base Joiner Profile and secure with adequate screw to one side only to allow for movement. Install Starter Profile and secure into top hats (do not penetrate the Joiner Profile).

Step 2. Install cladding boards.

Step 3. Click in the Cover Joiner Profile. Drill a 5mm hole at base to allow for drainage.

Horizontal Soffits and Ceilings

Aleria Aluminium cladding boards can be used for soffits and ceilings.

Alteria Required Accessories

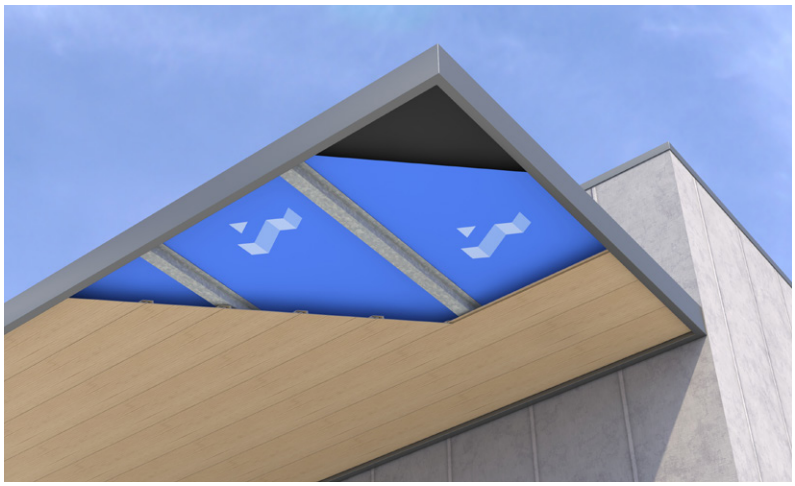
Alteria Cladding Board
Any size or profile

Starter Profile

Two Piece Finisher Profile

Two Piece Joiner Profile

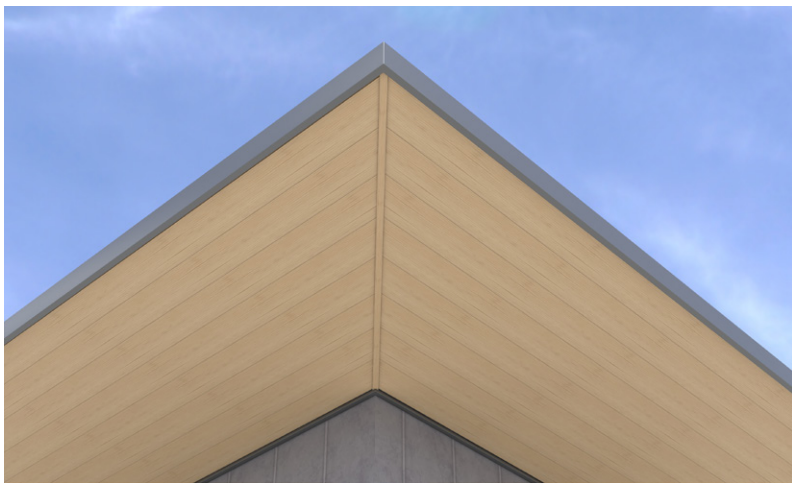
Cladding Screw



Soffit General Installation

The installation process for soffits and ceilings follow the same process as horizontal wall applications.

Refer to Starter, Joiner and Finisher/Edge installation details provided on previous pages.



Soffit Corners

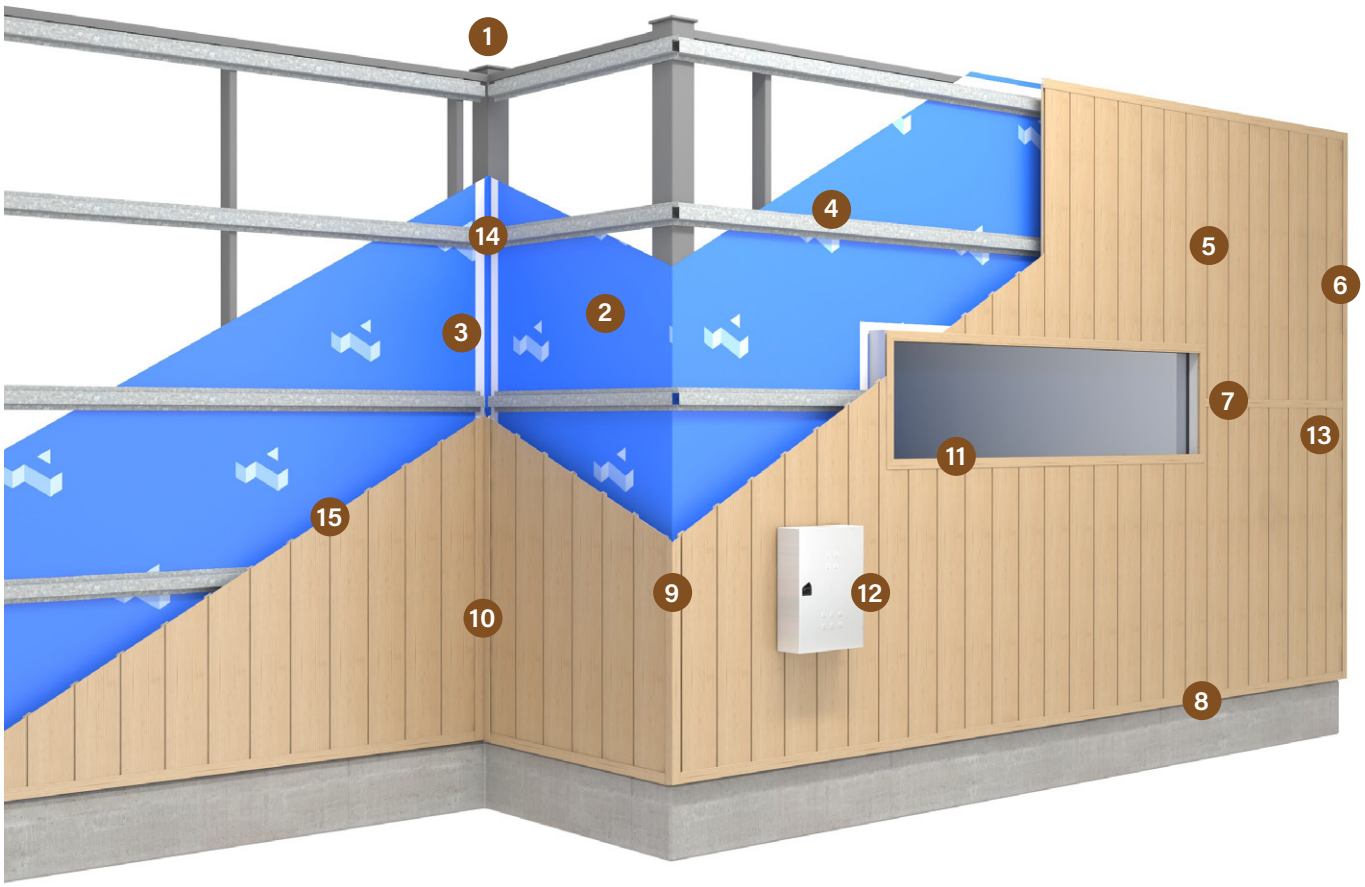
For a seamless corner, attach the Base Joiner Profile to the soffit and secure it firmly with screws into the substrate.

Cut the cladding boards at an angle to fit the corner and secure them. Finally, click in the Cover Finisher Profile.

Cladding Install Overview - Vertical

This section provides advice on vertical cladding installation, including finishing details such as corners, windows and control joints.

See pages 7-8 for preparation and design considerations.



1. Substructure & Preparation P6
2. Moisture Barrier P6
3. Sarking Tape P6
4. Top Hat Framing P8
5. Cladding Board Profile P1
6. Cladding Starter Detail P22
7. Joiner Detail P23
8. Finishing / Edge Detaill P24
9. External Corner Detail P25
10. Internal Corner Detail P26
11. Window Detail P27
12. Service Penetration Box P28
13. Control Joints P29
14. Span Tables P8
15. Cutting, Storage & Maintenance P31-32

Alteria tip

Install Trims First

After installing the starter profile and prior to installing cladding boards, first fit any two-piece base profile trims, including the finisher, corner, and joiner profiles.

Universal Cladding Installation Process

The installation process for cladding boards is the same across all profiles and sizes, including the castellated and coved ranges.

Starter 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.

Alteria Required Accessories

Alteria Cladding Board
Any size or profile

Starter Profile

Cladding Screw
See page 8 for details

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

Install Trims First

After installing the starter profile and prior to installing cladding boards, first fit any two-piece base profile trims, including the finisher, corner, and joiner profiles.

Cladding Shadow Lines

Alteria 125mm & 180mm Cladding boards offer a maximum 8.0mm shadow line between connected boards. It is possible to make the shadow line smaller to suit your design requirements by moving boards closer together. here is no shadow line for the Castellated and Coved Cladding Ranges.

Joiner Detail

The Alteria two-piece Joiner Trim consists of a cover and base component designed to conceal the joint between two vertical cladding boards.

This two-piece trim is reversible, which means either piece can be used as the base or cover. See below for more information.

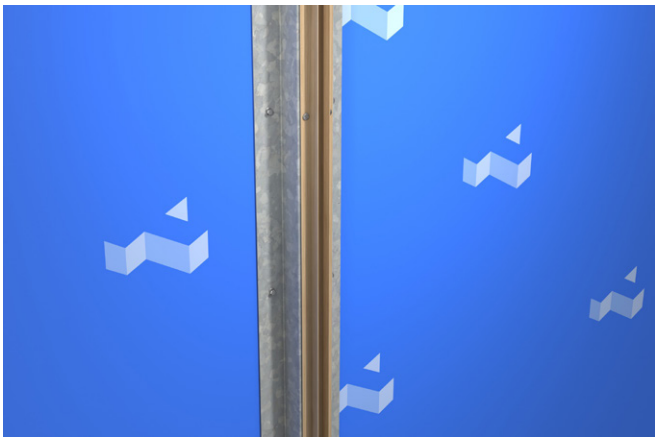
Alteria Required Accessories

Alteria Cladding Board
Any size or profile

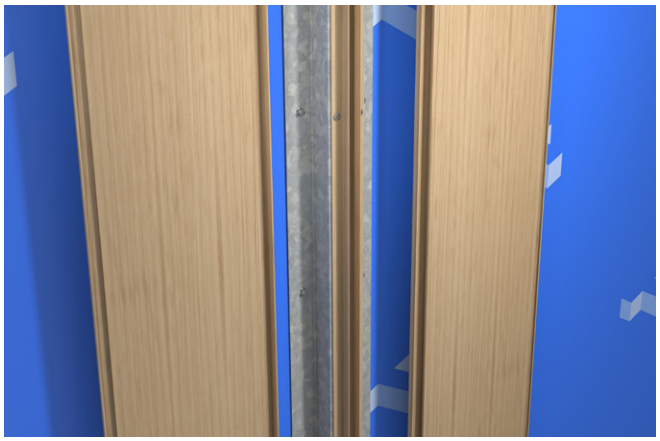
Starter Profile

Two Piece Joiner Profile

Cladding Screw
See page 8 for details

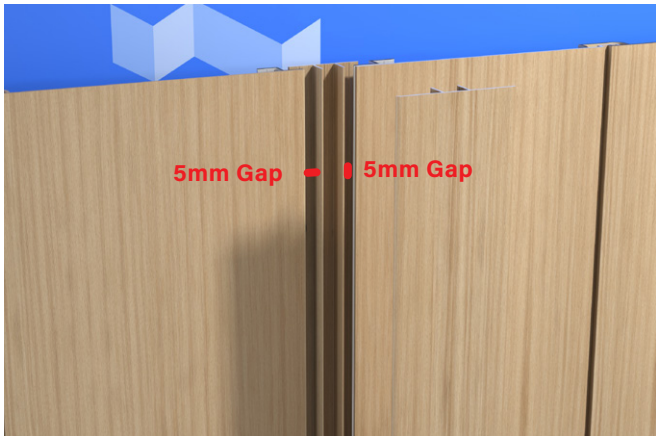


Step 1. Secure the preferred size Joiner Trim to the centre of the top hat. See note below on reversible trims.



Step 2. Position the cladding boards on either side of the Joiner Trim (allow a 5mm gap) and secure the boards in place. Starter Trim may be necessary on one side of the Joiner Trim.

Step 3. Snap the Joiner Trim cover into position over the joint.



NOTE: Leave a minimum 5mm gap between cladding boards and the connecting leg of the Joiner on both sides.

Alteria tip

Reversible Two-Piece Joiner Profile

The Two-Piece Joiner Profile is reversible, allowing either profile to be used as the cover piece to suit your design preference. It is important to check prior to installation that the Joiner piece you select for the cover will appropriately conceal cladding board joints.

Finishing Detail

The Alteria two-piece Finisher Profile consists of a reversible base and cover trim and is used at the top, bottom and finishing side of the wall to conceal all edges of the cladding board.

The Two-Piece Joiner Profile is reversible, allowing either profile to be used as the cover piece to suit your design preference. It is important to check prior to installation that the Finisher piece you select for the cover will appropriately conceal cladding board joints.

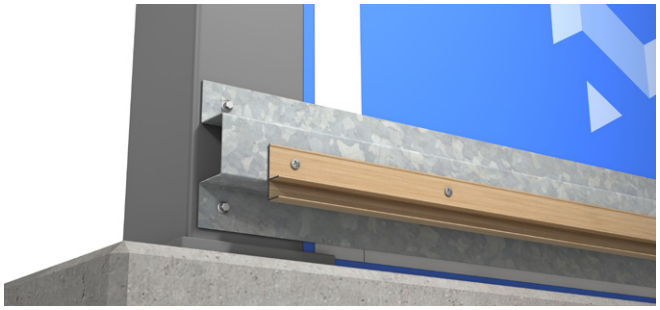
Alteria Required Accessories

Alteria Cladding Board
Any size or profile

Two Piece
Finisher Profile

Cladding Screw
See page 8 for details

BOTTOM OF STRUCTURE

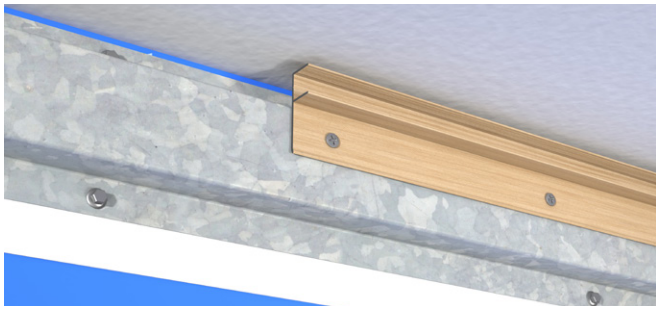


Step 1. Screw the Base Finisher Profile to the bottom of the top hat or structure.

Step 2. Place the vertical cladding boards directly on top of the Finisher Profile and secure. Install remaining boards. If using the wider Finisher Profile as the cover, leave a 5mm gap between cladding boards and the connecting leg of the Finisher.

Step 3. Click Cover Finisher Profile into place to conceal the cladding boards.

TOP OF STRUCTURE



Step 1. At the top of the wall, screw the base Finisher Profile to top hat or structure.

Step 2. Place the vertical cladding boards directly on top of the Finisher Profile and secure. Install remaining boards. If using the winder Finisher Profile as the cover, leave a 5mm gap between cladding boards and the connecting leg of the Finisher.

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

Alteria tip

Side Finisher Detail

A Finisher Profile is to be used at the finishing side of the wall using same process as above.
If the cladding board needs to be cut to size, use a Z Support Profile to support the cladding board.

External Corner Detail

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 and base of the external corner.

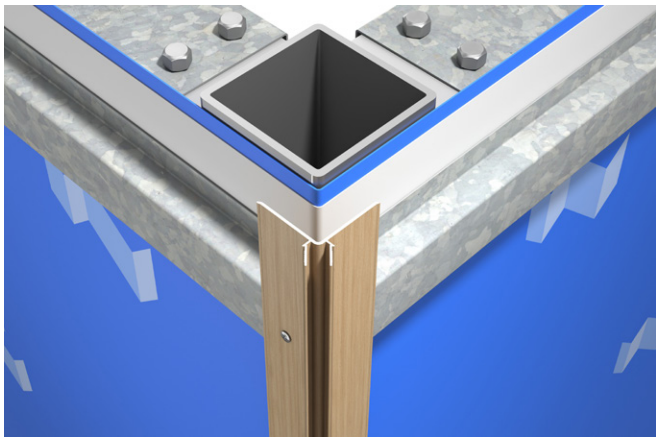
Alteria Required Accessories

Alteria Cladding Board
Any size or profile

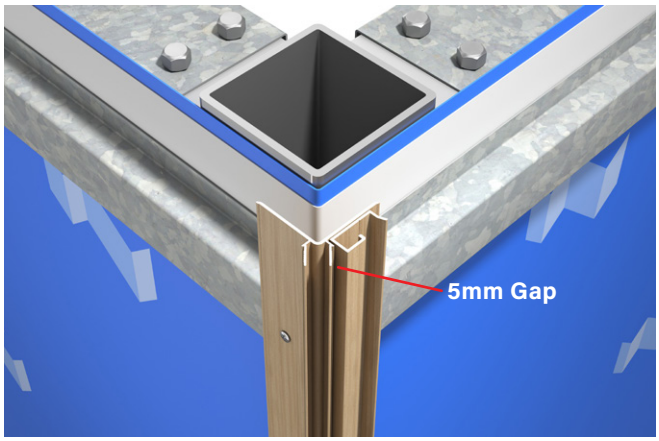
Two Piece
Corner Profile

Two Piece
Finisher Profile

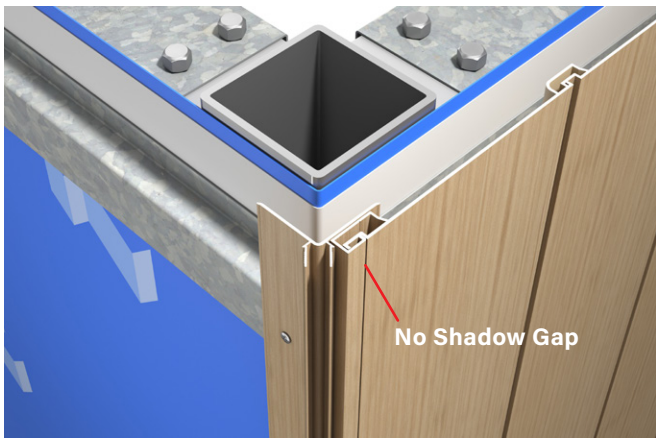
Cladding Screw
See page 8 for details



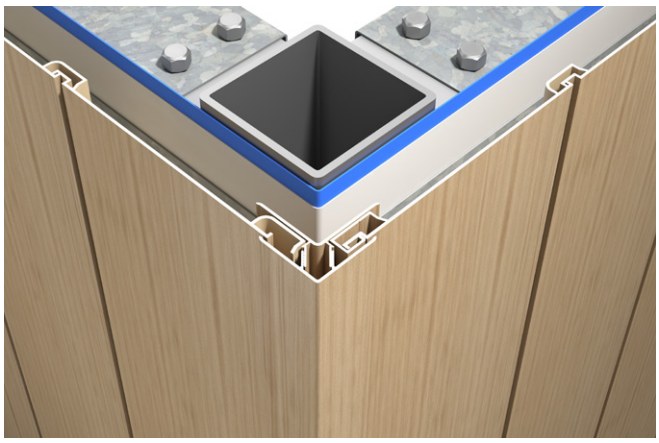
Step 1. Screw the left side of the Cover Corner Profile to top hat frame only to secure the trim to the corner.



Step 2. Place the Starter Profile on top of the right hand side of the Cover 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 Cover Corner Profile.



Step 4. Click Base Corner Profile in to Cover 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 Cover 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 29 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 for internal and external corners. The below process highlights the steps to use at the top and base of the internal corner.

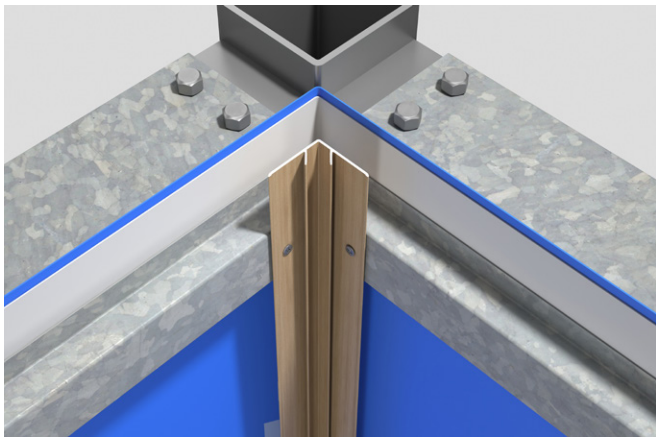
Alteria Required Accessories

Alteria Cladding Board
Any size or profile

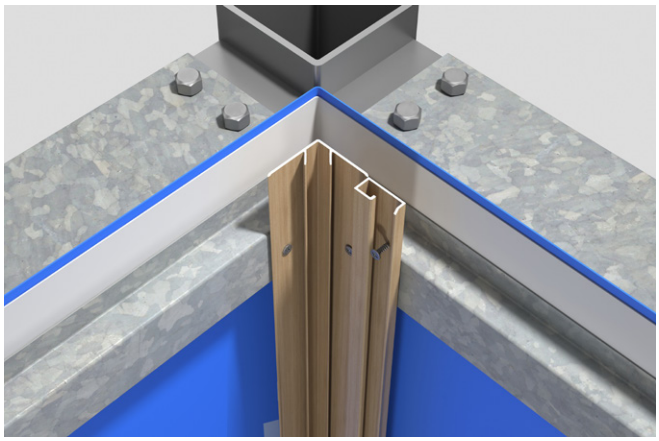
Two Piece
Corner Profile

Two Piece
Finisher Profile

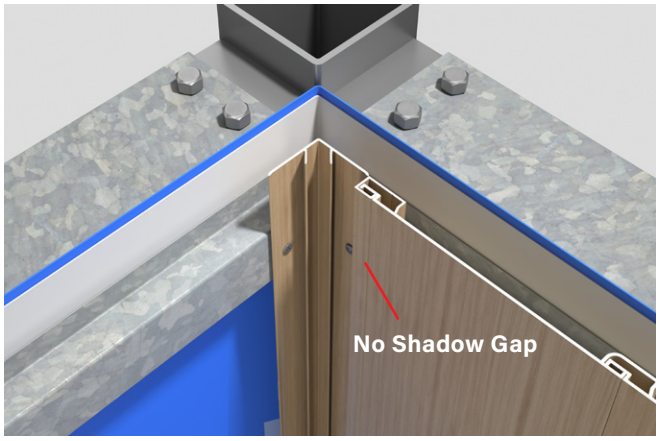
Cladding Screw
See page 8 for details



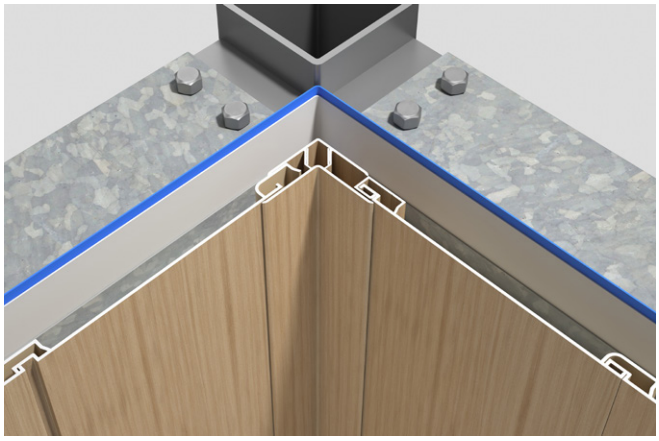
Step 1. Screw the Base Corner Profile to top hat frame.



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 Cover Corner Profile into place to conceal the edges.

Alteria tip

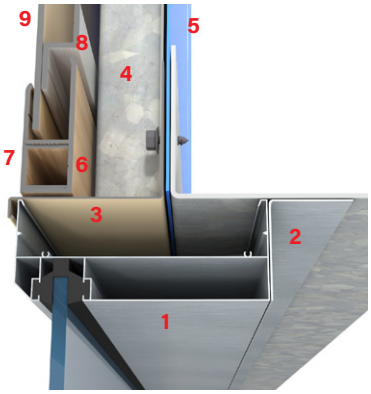
Z Support Profile

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 29 for guidance on how to use Z Support Profile.

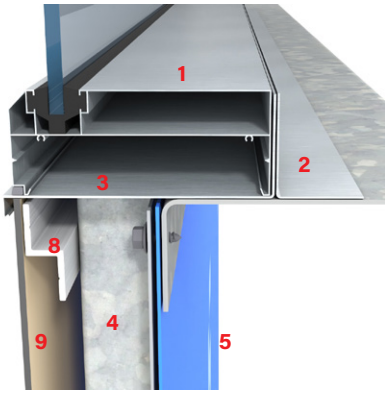
Window Detail

For cladding installation around windows, the Alteria two-piece Finisher Profile is used at the top and side of the window to conceal edge of the cladding board.

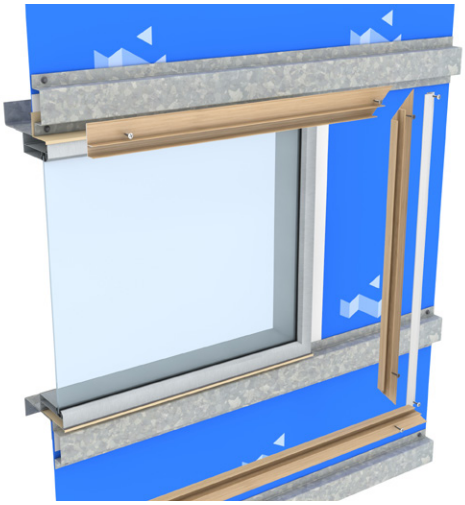
1. Window Frame
2. Window Support
3. Window Head / Sill
4. Top Hat
5. Weather Barrier & Sarking Tape
6. Base Finisher Profile
7. Cover Finisher Profile
8. Z Support Profile
9. Horizontal Cladding Board



Base of window



Top of window



Step 1. Screw Base Finisher Profile above the Head and on the sides of the window.

Step 2. Install vertical cladding boards. If it is necessary to cut cladding boards to fit the shape of the window, then a Z Profile will need to be installed.

Step 3. Click Cover Finisher Profile into Base Finisher Profile.

Alteria tip

Corners

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

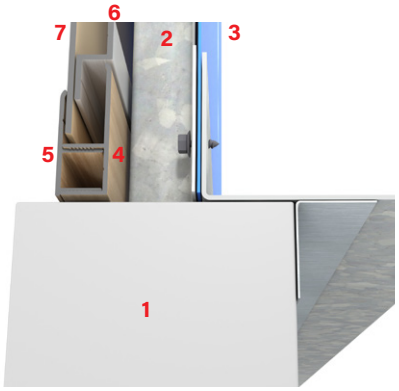
Finisher Profile

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

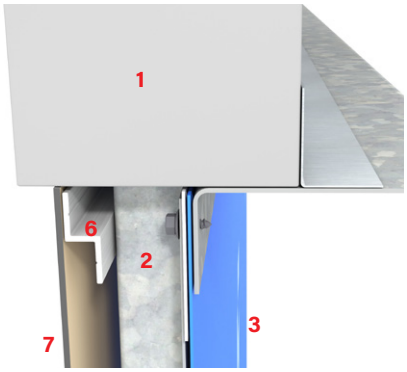
Penetration Detail

For cladding installation around penetration boxes, the Alteria two-piece Finisher Profile is used at the top and side of the window to conceal edge of the cladding board.

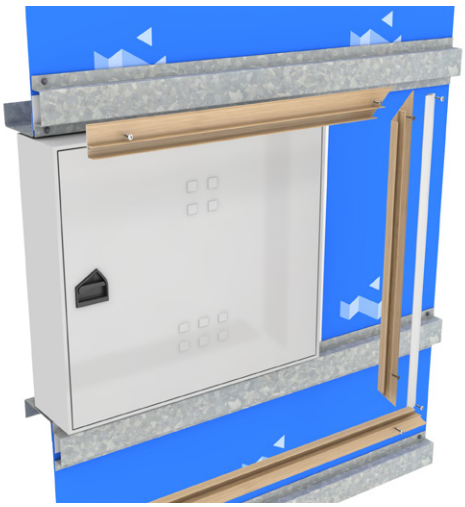
1. Penetration box (or similar)
2. Top Hat
3. Weather Barrier & Sarking Tape
4. Base Finisher Profile
5. Cover Finisher Profile
6. Z Support Profile
7. Horizontal Cladding Board



Base of window



Top of window



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

Step 2. Install vertical cladding boards. If it is necessary to cut cladding boards to fit the shape of the penetration, then a Z Profile will need to be installed.

Step 3. Click Cover Finisher Profile into Base Finisher Profile.

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 if required.

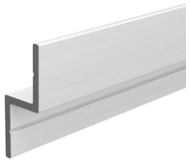
Control Joint

If required, horizontal and vertical control joints can be installed to horizontal claddings using Alteria's two piece joiner profile.

Alteria Required Accessories

Alteria Cladding Board
Any size or profile

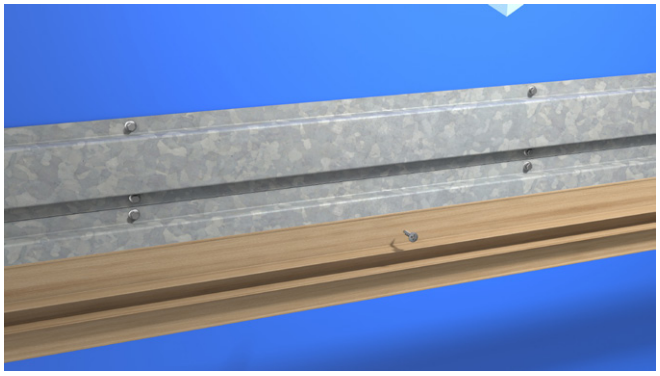
Two Piece Joiner Profile



Z Support Profile
Vertical Horizontal Control Joint Only

Cladding Screw
See page 8 for details

HORIZONTAL CONTROL JOINT

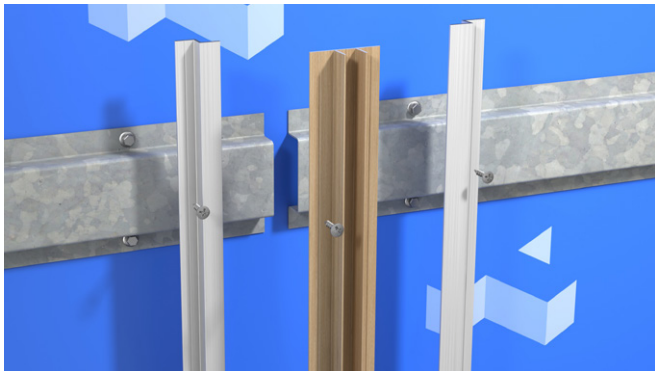


Step 1. At the Control Joint, Install Base Joiner Profile and secure with adequate screw to top side only to allow for movement.

Step 2. Install cladding board. Ensure to secure cladding board into top hats (do not penetrate the Joiner Profile).

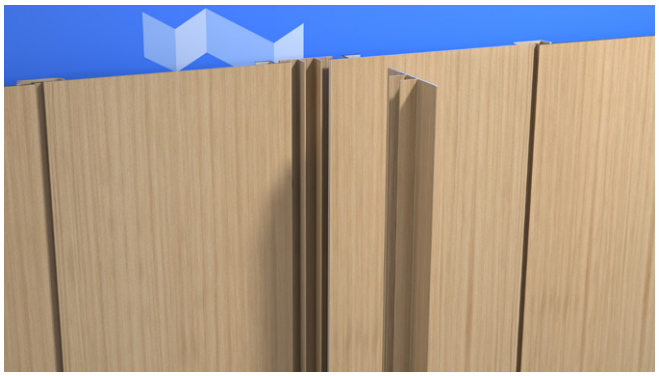
Step 3. Apply a bead of polyurethane adhesive sealant on the top side of the control joint only. Click in the Wider Joiner Profile.

VERTICAL CONTROL JOINT



Step 1. At the Control Joint, Install narrower Joiner Profile and secure with adequate screw to one side only to allow for movement. Install Z Profiles and secure into top hats (do not penetrate the Joiner Profile).

Step 2. Install cladding boards and leave a 5mm gap between Joiner Profile and Cladding Boards.



Step 3. Click in the Cover Joiner Profile. Drill a 5mm hole at base to allow for drainage.

Soffits and Ceilings

Aleria Aluminium cladding boards can be used for soffits and ceilings.

Alteria Required Accessories

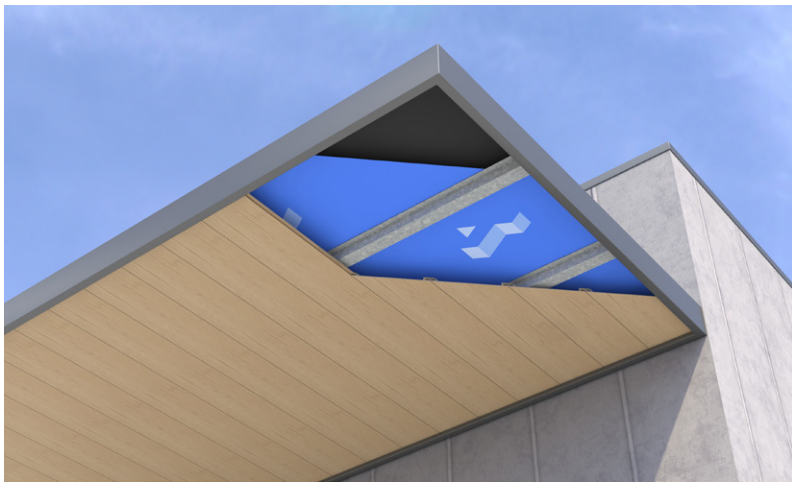
Alteria Cladding Board
Any size or profile

Starter Profile

Two Piece Finisher Profile

Two Piece Joiner Profile

Cladding Screw



Soffit General Installation

The installation process for soffits and ceilings follow the same process as horizontal wall applications.

Refer to Starter, Joiner and Finisher/Edge installation details provided on previous pages.

Soffit Corners

For a seamless corner, attach the Base Joiner Profile to the soffit and secure it firmly with screws into the substrate.

Cut the cladding boards at an angle to fit the corner and secure them. Finally, click in the Cover Finisher Profile.

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

Alteria can cut your battens and claddings to your exact sizes to help you save time and hassle on site. Contact us 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.

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 noy 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 requires 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.

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.

Alteria Signature Warranties are separated into three levels and are available based on the finish selected and the location of your project.

For full warranty overview visit alteria.com.au/warranty

AVAILABLE WITH:

Meridian Range

Aurora Range

Lumi Range

Essentials 25 Range

AVAILABLE WITH:

Evoke Range

AVAILABLE WITH:

Essentials 10 Range*

*Essentials 10 Warranty is only applicable for BCA Class 1 & 10 Buildings (Single domestic residential dwelling up to 3 storeys).

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.

Please ensure that you have the latest version of this publication by checking that the publication date corresponds with the downloadable version from our website at www.alteria.com.au

In case of doubt, please contact Alteria.

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.

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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