

ALTERIA
SIGNATURE ALUMINIUM SYSTEMS

BATTEN & SLAT RANGE
INSTALLATION GUIDE





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With a range of proprietary aluminium profiles, Alteria Signature Aluminium Battens & Slat Range 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.

Two Piece Battens - Contemporary Range

30 x 30mm



30 x 50mm



30 x 80mm



30 x 120mm



50 x 50mm



50 x 100mm



50 x 150mm



50 x 200mm



Two Piece Battens - Designer Range

30 x 50mm Cove



50 x 50mm Cove



Two Piece Battens - Joiner

50 x 200mm Joiner.

Suitable with 50x50mm, 50x100mm & 50x150mm



Two Piece Slats

65 x 19mm



90 x 19mm



One Piece Battens

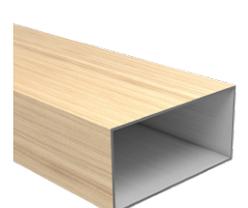
32 x 32mm



50 x 50mm



50 x 100mm



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.

Evoked 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.



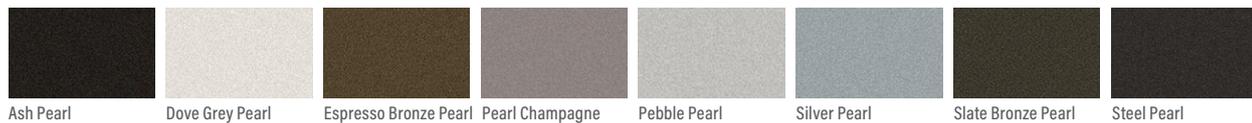
Aurora Range

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

There are four main fixing methods available for Alteria Signature Aluminium battens and slats. Please contact Alteria for advice on other fixing methods not provided.

Direct Fix

See pages 12-17 for Installation Details

The Direct Fix Installation method involves securely attaching the batten or slat base to a supporting substructure or frame. The Batten / Slat Cover is then clicked on to the base to conceal the fixings.

Common Direct Fix Installation Options:



Direct Fix over Claddings/Linings



Direct Fix to Screen Frame



Direct Fix to Soffit Frame

Mounting Track Fix

See pages 18-21 for Installation Details

The Mounting Track Fix Installation method uses Alteria's proprietary mounting track to secure the batten/slat base. Standard Track and Acoustic Panel Track options.

Common Mounting Track Installation Options:



Mounting Track Fix over External Cladding



Mounting Track Fix over Internal Lining

Support Bracket Fix

See pages 22-23 for Installation Details

The Support Bracket Fix Installation method uses Alteria's proprietary brackets to securely attach the batten base to a support substrate. The Batten / Slat Cover is then clicked on to the base to conceal the angle bracket fixings.

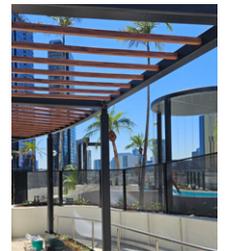
Common Support Bracket Fix Installation Options:



Floor to Ceiling Internal Screen



Floor to Ceiling External Screen



Infill Soffit Screen

Rear Fix

See pages 24-25 for Installation Details

The Rear Fix installation methods is used for our One Piece Batten range. Battens are fixed from the rear using fasteners.

Common Rear Fix Installation Options.



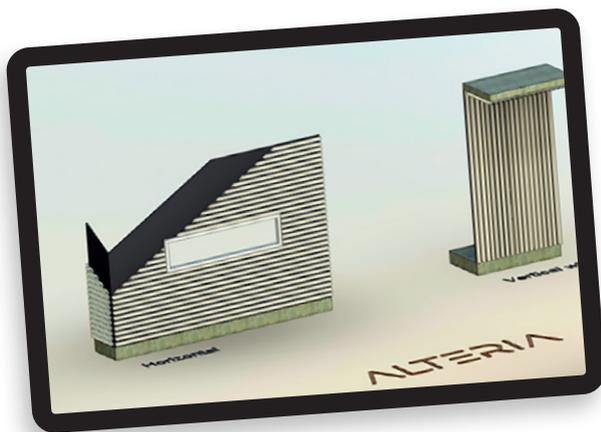
Rear Fix through Frame

Technical Supplement: Span & Fixing Detail - Battens & Slats - Battens & Slats

Alteria Aluminium has developed a technical supplement that includes fastener details and maximum fixing spacing span data for the main batten / slat installation methods.

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* 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 battens and slats 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 Battens have been tested to comply with the following BCA Provisions:

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	Robust Engineering Pty Ltd	Mar 2025	AS 1562.1 and DTS F3D5 & H2D6(4).	Creation of Maximum fixing spacing tables 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	Robust Engineering Pty Ltd	Mar 2025	AS 1562.1 and DTS F3D5 & H2D6(4).	Creation of Maximum fixing spacing tables 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 1170.2:2021	Robust Engineering Pty Ltd	Mar 2025	AS 1562.1 and DTS F3D5 & H2D6(4).	Creation of Maximum fixing spacing tables 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 1664.1 - 1997	Robust Engineering Pty Ltd	Mar 2025	AS 1562.1 and DTS F3D5 & H2D6(4).	Creation of Maximum fixing spacing tables 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).

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 m ² /kg limit Mean Average specification Extinction Area 138.9 m ² /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.

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

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.

Moisture Management

Alteria Aluminium battens and slats are suitable for external use, but are not designed to provide weatherproofing of the building. 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.



Batten Orientation

Batten orientation options for battens and slats are dependent on the fixing method.

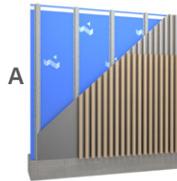
Direct Fix & Rear Fix applications can be installed both vertically and horizontally.

Support Bracket Fix & Mounting Track Fix can only be installed with a vertical batten orientation only.

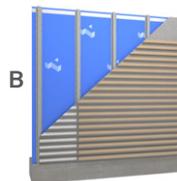
Top Hat Orientation - Direct Fix

For Direct Fix installation, the orientation of the supporting top hat or structure must be carefully considered to ensure proper fixing.

Vertical Batten installation: Requires a HORIZONTAL top hat or structural support (A).



Horizontal Batten Installation: Requires a VERTICAL top hat or structural support (B).



If the top hat or structural support must be installed vertically due to cladding or lining requirements, but a vertical batten/slat orientation is preferred, a mounting track fix will be necessary.

Soffits & Ceilings

Aleria Aluminium battens and slats can be used for ceilings and soffits using various installation and fixing methods. The installation process for ceilings / soffits are the same as what is provided for wall applications.

Batten Lengths

All battens / slats come in standard 6500mm lengths.

Please note that the available usable length of some battens/ slats can be 6450mm, due to the production process. This depends on the finish of the batten selected. Contact Aleria to discuss if this will apply to your order.

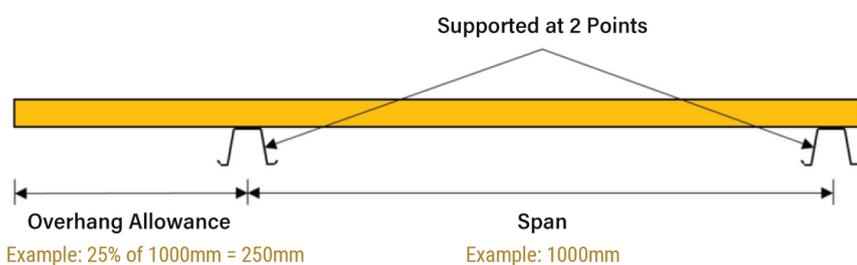
Profiles can be cut on site. See page 28 for cutting tips

Batten Overhang Allowance

An overhang occurs when a batten extends beyond a support leaving one end to freely hang (see image below).

The following shall be followed when dealing with overhang details:

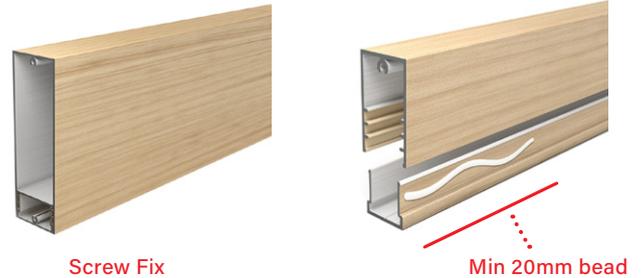
- Overhangs can span 25% of the adjacent spacing but not more than 500mm.
- Battens which overhang should be supported at a minimum of two points (1 span).



Securing Two Piece Battens

Battens must be secured to a supporting top hat or nogging. It is imperative that they are not just installed to cladding or lining sheet.

It is also essential to apply a 20-30cm bead of polyurethane adhesive sealant or use a rivet/screw at both batten ends. Colour-matched head screws are available from Aleria.



Joining Battens

Butt joints are required when joining battens together. To reduce movement between the joining battens it is advised to use a section of timber or aluminium inside the battens. It is also important to stagger the Base Profile across a single batten as this helps to achieve a straight finish.

External Installation

Aleria Aluminium battens are an excellent choice for external use, but are not designed to provide weatherproofing of the building. If weatherproofing is required, battens need to be installed over suitable exterior cladding. Please contact your project engineer for cladding recommendations.

Internal Installation

Aleria Aluminium battens can be installed directly to most internal linings (eg. Plasterboard) or directly fixed straight to the ceiling grid.

Batten Distances

There is not set requirement for batten distances. A popular choice used is 50mm gap for 50mm Batten Series and a 30mm gap for the 30mm Batten Series.

Maximum Fixing Spacings & Span Tables

Each Alteria batten and slat size has specific maximum fixing spacings that must be followed.

Detailed Span Table data has been developed for the range in our *Technical Supplement: Span & Fixing Detail - Battens & Slats - Battens & Slats 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 - Battens & Slats* document can be found on the Alteria Aluminium website at alteria.com.au/resources



Fixing Methods

As highlighted on page 3, there are various applications and fixing options available for Alteria Aluminium Battens and Slats, including:

- **Direct Two Piece Fix** - Refers to the batten or slat base being directly fixed to the substrate
- **Mounting Track Fix** - Refers to batten or slat base being fixed to a mounting track
- **Support Bracket Fix** - Refers to battens being fixed to the substrate using support angle brackets
- **Rear Fix** - Refers to fixing through the back of the substrate into the batten

Refer to table below to see which fixing methods are available for each batten and slat size.

Please contact Alteria for advice on other fixing options not included.

Profile	Type	FIXING OPTIONS			
		Direct Two Piece Fix	Support Bracket Fix	Mounting Track Fix	Rear Fix
30 x 30mm	Two Piece Batten	x	x	x	
30 x 50mm		x	x	x	
30 x 80mm		x	x	x	
30 x 120mm		x	x	x	
50 x 50mm		x	x	x	
50 x 100mm		x	x	x	
50 x 150mm		x	x	x	
50 x 200mm		x	x	x	
50 x 200mm Joiner		x			
65 x 19mm		Two Piece Slat	x		x
90 x 19mm	x			x	
30 x 30mm	One Piece Batten				x
50 x 50mm					x
50 x 100mm					x

Must Fix Battens to Supporting Substrate

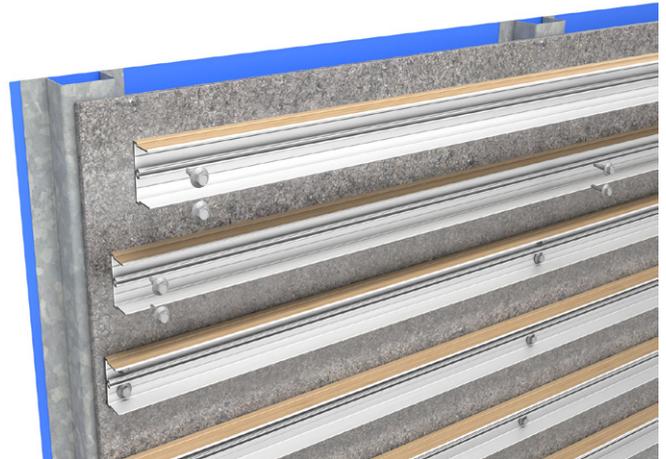
Regardless of the chosen fixing method, all Alteria battens and slats must be securely attached to a suitable supporting substrate using appropriate fasteners.

Common substrates for batten/slat installation include:

- Steel Stud / Top Hats
- Timber
- Solid Concrete
- Brick
- Concrete Block

If battens/slats are to be installed over external cladding or internal linings, it is imperative that the fasteners penetrate the fixing substrate (eg. top hats/timber) and are not just installed to cladding or lining sheet.

Please refer to the *Technical Supplement: Span & Fixing Detail - Battens & Slats* document for advice on the specific fasteners to use for each strata and fixing method.



Fixing Screws

Below highlights the fasteners requirements based on substrate. The type of fixing screw required for your project will depend on the substrate structure you will be fixing to and the fixing method selected.

Please refer to the *Technical Supplement: Span & Fixing Detail - Battens & Slats* document for further details including the quantity of fasteners required per fixing point.

Steel:

- ICCONS SD Hex Class 4 14-11

Timber:

- ICCONS Type 17 Hex Class 4 14-10
- Screw to be fixed centrally into the timber with a minimum embedment depth of 35mm

Concrete:

- ICCONS Thunderbolt Pro Hex 8mm
- Anchor embedment depth to be 65mm
- Minimum edge distance = 80mm
- Minimum anchor spacing = 45mm
- Anchor to be used on concrete with minimum compressive strength, f'c of 25 MPa

Masonry:

- ICCONS Thunderbolt Pro Hex 8mm
- Anchor embedment depth to be 40mm
- Maximum one anchor per brick
- Minimum edge distance = one brick

Concrete block:

- ICCONS Thunderbolt Pro Hex 8mm
- Anchor embedment depth to be 40mm
- Maximum one anchor per cavity
- Minimum edge distance = 1/2 block

Screws can be substituted to alternative brand if they meet the equivalent standards.

Fixing Detail

The span data provided in our *Technical Supplement: Span & Fixing Detail - Battens & Slats* is governed by the number of fasteners/screws that are used at each fixing point. Installer can select the suitable number of fasteners that are detailed in the data tables to meet their span requirements.

When installing fasteners at fixing points, please follow the below arrangement.

30mm Batten Series

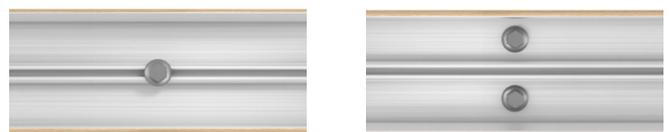


1 Screw Fixing Detail

2 Screw Fixing Detail

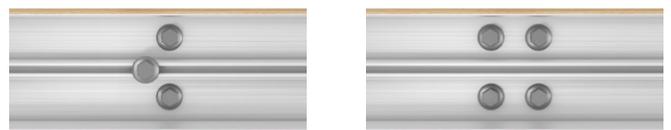
3 Screw Fixing Detail

50mm Batten Series & 19mm Slat Series



1 Screw Fixing Detail (Slat Range only)

2 Screw Fixing Detail



3 Screw Fixing Detail

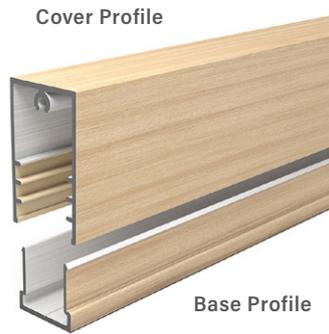
4 Screw Fixing Detail

Alteria Profiles & Accessories

Two Piece Batten/Slat

Two-piece Batten/Slat System comprising Cover profile and Base profile.

Length: 6500mm
See pg 1 for sizes.



Mounting Track - Standard

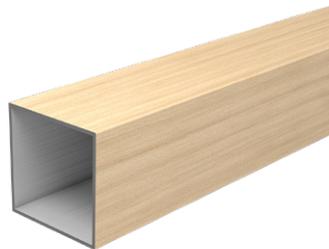
If required, Mounting Track can be used to secure the vertical two piece batten/slat to the wall.
Required for Mounting Track Fix only.

Can be used for external and internal applications.
Length: 6500mm



One Piece Batten

One piece batten.
Available in 30x30mm, 50x50mm, and 50x100mm.
Length: 6500mm



Mounting Track - Acoustic

If required, Mounting Track can be used to secure the vertical two piece batten/slat to the wall.
This track includes a proprietary design to accommodate an acoustic panel.

Suitable for internal applications only.
Length: 6500mm



End Cap - Friction Fit

Colour matched aluminium friction fit end caps offer a concealed fit without an exposed screw.

Available for all profiles and sizes.



Fixing Screw

Battens/Slats need to be fixed securely to suitable substrate using specific fasteners depending on the substrate material.

See page 9 for details.



End Cap - Screw Fit

Colour matched aluminium screw fit end caps with colour matched screws available.

Available for 50mm Two Piece Batten & Joiner Series only.



Support Brackets

L shaped support bracket to securely attach the batten base to a support substrate.

Suitable for Support Bracket Fix installation.

There are specific support bracket sizes based on the batten size selected.

See *Technical Supplement: Span & Fixing Detail - Battens & Slats* document for details.



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

Direct Fix / Page 12



Direct Fix - Balustrades / Page 16



Mounting Track Fix / Page 18



Mounting Track Fix - Acoustic Walls / Page 20



Support Bracket / Page 22



Rear Fix / Page 24



The **Direct Fix Method** involves securing our two-piece battens or slats directly to a supporting substrate (such as steel studs, top hats, timber, or masonry) without the need for mounting tracks. This method provides a clean, seamless appearance with a fully concealed fixing system.

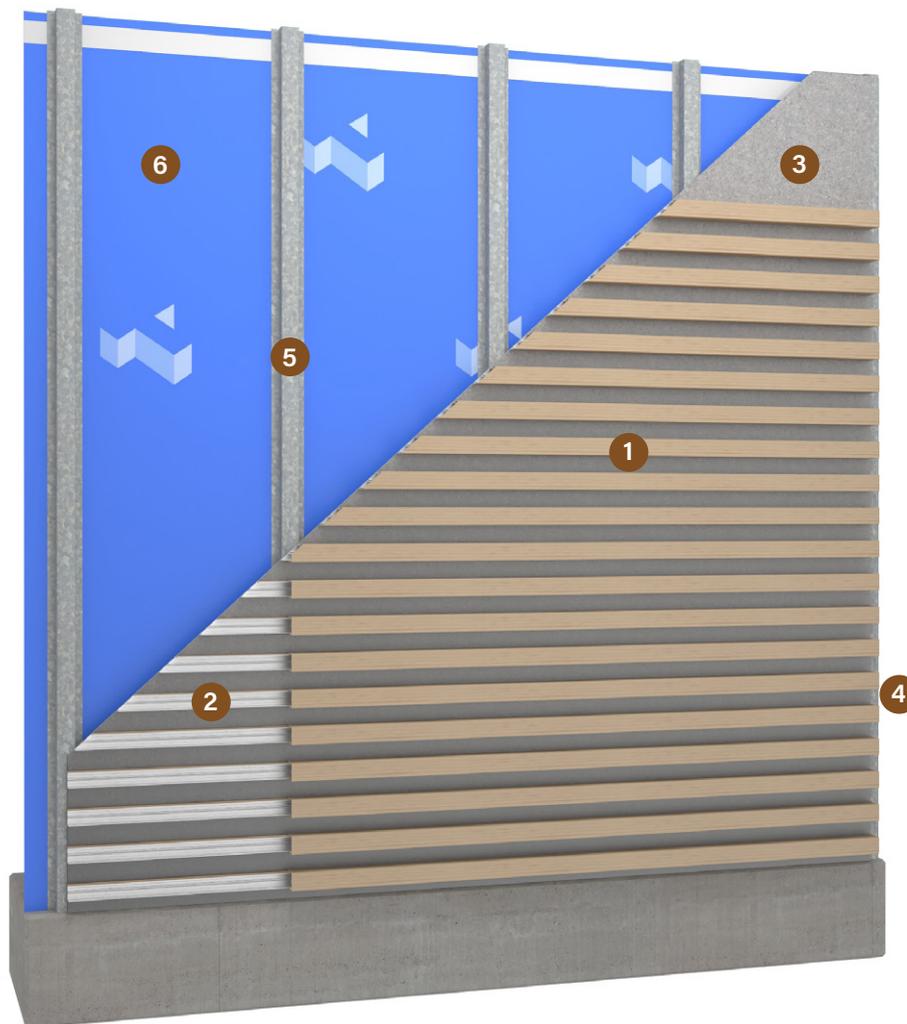
For advice on maximum fixing spacings and span tables, refer to our *Technical Supplement: Span & Fixing Detail - Battens & Slats* document.

Suitable for:

- Vertical & horizontal batten orientations
- Internal & external applications
- Ceiling & wall applications

Common Applications:

- Over wall claddings/linings
- Over ceiling & soffit claddings/linings
- Fixed to structural frames
- Fixed to balustrades frames
- Fixed to pergolas



- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Two Piece Batten/Slat Cover 2. Two Piece Batten/Slat Base 3. External Cladding / Lining Board
Supplied by other 4. End Caps
See page 15 | <ol style="list-style-type: none"> 5. Fixing Substructure
See page 9 for detail 6. Weather Barrier - External Only
Supplied by other |
|---|--|

Direct Fix Installation - Over Exterior Cladding / Interior Linings

The following outlines how to install Alteria Aluminium's two-piece battens or slats using the direct fix method over external cladding or internal linings, and is applicable for vertical, horizontal, wall and ceiling installations. For direct fix to frame applications, cladding/linings and weatherproofing is not required.

Alteria Required Accessories



Two Piece Aluminium Batten or Slat



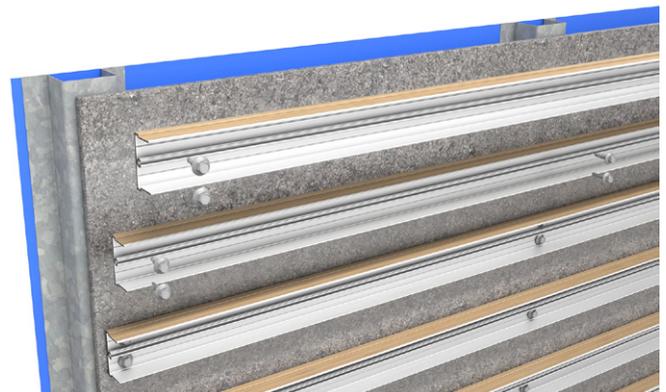
Batten End Cap (Optional)



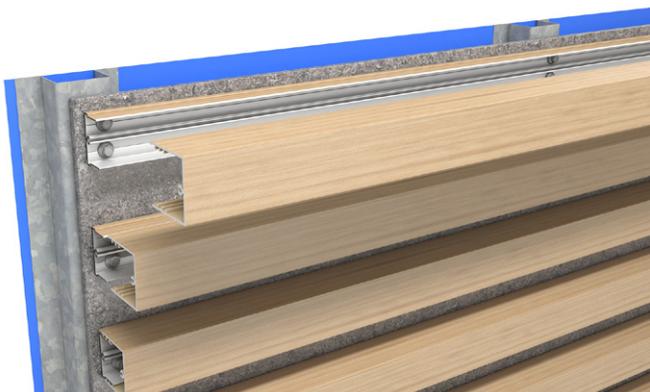
Substrate Fixing Screw
Refer to pg 9 for Fixing Type & Size Requirements



Step 1. Install internal lining or external cladding and weatherproofing as per manufacturer instruction. For direct fix to frame applications, cladding/lining is not required.



Step 2. Position the Batten/Slat Base at the desired spacing and screw the profile base through the cladding/lining directly into the support substrate. See page 9 for details on support substrates.



Step 3. Once the Batten/Slat Base profile is securely fixed, click the top Batten/Slat Cover profile into place.



Step 4. If required, secure colour matched aluminium end caps.

Fixing Requirements

Please refer to Alteria's *Technical Supplement: Span & Fixing Detail - Battens & Slats* document for fixing requirements and fixing spacing span tables. See page 8-9 for details.

Direct Fix Installation - Joining Battens

The following outlines the proper method for butt joining Alteria's two-piece battens or slats to ensure a secure and seamless fit.

Alteria Required Accessories



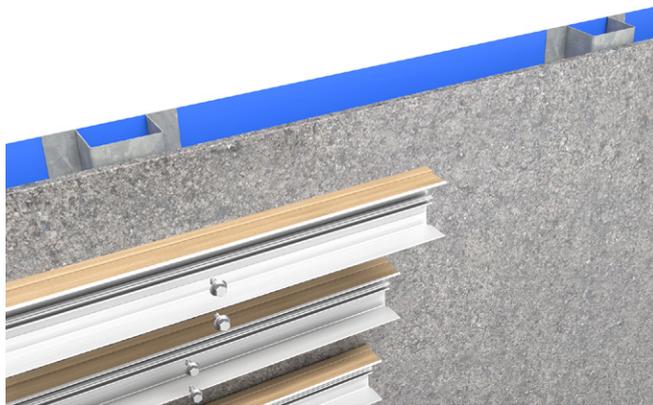
Two Piece Aluminium Batten or Slat



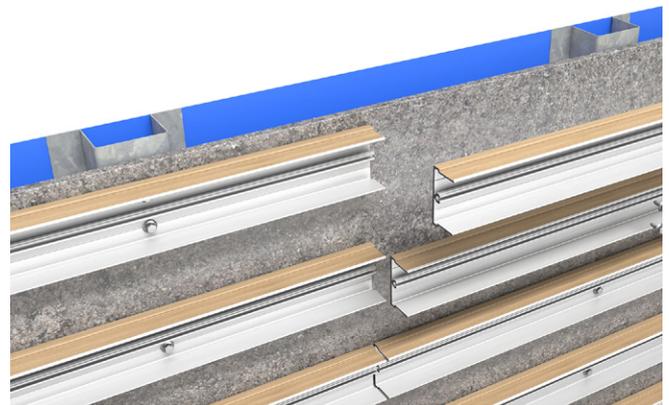
Batten End Cap (Optional)



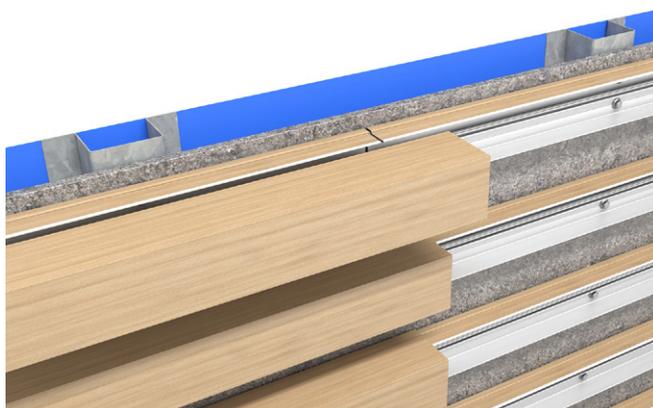
Substrate Fixing Screw
Refer to pg 9 for Fixing Type & Size Requirements



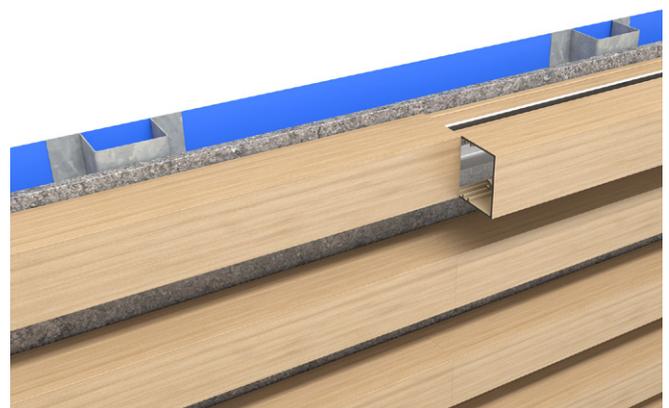
Step 1. Position the Batten/Slat Base over the exterior cladding or interior lining, then secure it by screwing through the cladding/lining directly into the support substrate.



Step 2. Butt join the next Batten/Slat Base next to the first one and fasten it securely using an appropriate fixing screw.



Step 3. Place the first Batten/Slat Cover so that it overlaps and conceals the butt joint of the two batten bases.



Step 4. Install the second Batten/Slat Cover. If necessary, insert a wooden block between the two battens for additional support.

Fixing Requirements

Please refer to Alteria's *Technical Supplement: Span & Fixing Detail - Battens & Slats* document for fixing requirements and fixing spacing span tables. See page 8-9 for details.

Direct Fix Installation - Window Shrouds

If required, window shrouds using Alteria Two Piece battens can be direct fixed to provide sun shading, block direct sunlight, reduce glare and heat gain inside the building, contributing to energy efficiency.

Alteria Required Accessories



Two Piece Aluminium Batten or Slat



Batten End Cap (Optional)



Substrate Fixing Screw
Refer to pg 9 for Fixing Type & Size Requirements



Step 1. Measure the perimeter of the window. Mark and mitre cut the batten bases at 45-degree angles at each corner. screw the profile base through the cladding/lining directly into the support substrate.



Step 2. Position the first battenbase along one edge of the window, ensuring the mitred ends align precisely. Secure the base by screwing it through the cladding/lining into the support structure. Repeat the process for the remaining sides, ensuring tight mitre joints at the corners.



Step 3. Once all bases are secured, click in the batten/slat covers, ensuring they align neatly with the mitred corners. For additional strength and seamless appearance, apply a small amount of adhesive at the mitre joints before fixing the covers.



Step 4. Install remaining battens if required.

Fixing Requirements

Please refer to Alteria's *Technical Supplement: Span & Fixing Detail - Battens & Slats* document for fixing requirements and fixing spacing span tables. See page 8-9 for details.

The **Direct Fix Method – Balustrades** involves securing selected two-piece battens directly to supporting balustrade system as a compliant balustrade infill.

For advice on maximum fixing spacings and span tables, refer to our *Technical Supplement: Span & Fixing Detail - Battens & Slats* document.

Suitable for:

- Vertical batten orientations
- Internal & external applications
- Residential & Commercial applications

Common Applications:

- Fixed to structural balustrade frames



1. Two Piece Batten Cover
2. Two Piece Batten Base
3. Balustrade Structure
Supplied by other

Direct Concealed Fix Install - Balustrade Infill

The following outlines how to install Alteria Aluminium's two-piece battens using the direct fix method over external cladding or internal linings, and is applicable for vertical, horizontal, wall and ceiling installations. For direct fix to frame applications, cladding/linings and weatherproofing is not required.

Alteria Required Accessories



Two Piece Aluminium Batten



Batten End Cap (Optional)



Substrate Fixing Screw
Refer to pg 9 for Fixing Type & Size Requirements



Step 1. Install balustrade structure (supplied by others) as per manufacturers instruction. Place two piece batten base at compliant spacings and secure to top and bottom frame.



Step 2. Install two piece batten cover.



Step 3. Install batten end caps.



Step 4. Repeat for remaining battens.

Fixing Requirements

Please refer to Alteria's *Technical Supplement: Span & Fixing Detail - Battens & Slats* document for fixing requirements and fixing spacing span tables. See page 8-9 for details.

This section provides guidance on installing Alteria's proprietary **Mounting Track** over exterior cladding or internal lining for specific vertical wall applications, followed by the installation of two-piece battens directly onto the track.

This method is commonly used when a vertical batten or slat orientation is needed, but the supporting structure behind the cladding is also vertically aligned, requiring a mounting track for proper batten support.

For advice on maximum fixing spacings and span tables, refer to our *Technical Supplement: Span & Fixing Detail - Battens & Slats* document.

Suitable for:

- Vertical batten orientations
- Internal & external applications
- Wall applications

Common Applications:

- Over external wall claddings
- Over internal wall lining
- Over internal wall with acoustic backing (see page 20)



- | | |
|--------------------------------------|---------------------------------------|
| 1. Two Piece Batten/Slat Cover | 5. End Caps
See page 15 |
| 2. Two Piece Batten/Slat Base | 6. Fixing Substructure
See page 26 |
| 3. External Cladding/Internal Lining | |
| 4. Mounting Track | |

Mounting Track Fix - Over External Cladding / Internal Lining

This section provides advice for installing Alteria Aluminium's two piece battens or slats using mounting tracks over external cladding or internal linings, and is applicable for vertical wall installations.

Alteria Required Accessories



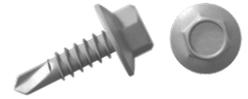
Two Piece Aluminium Batten or Slat



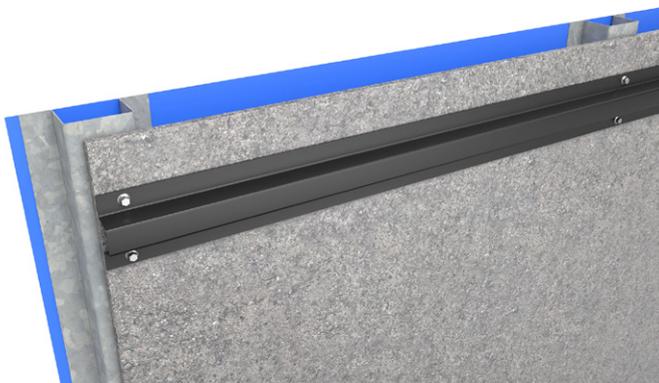
Batten End Cap (Optional)



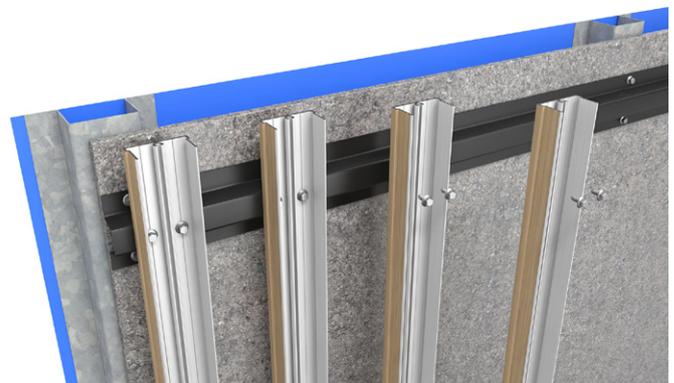
Mounting Track



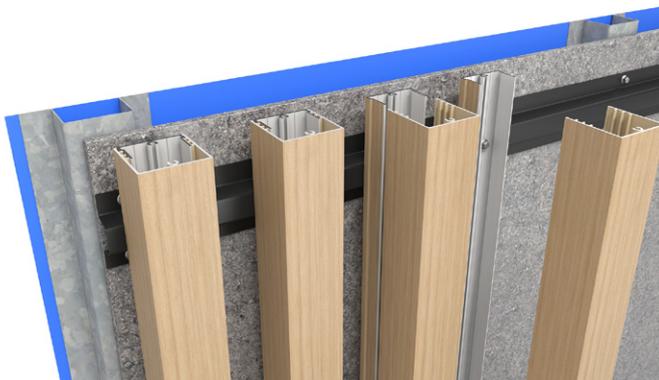
Substrate Fixing Screw
Refer to pg 9 for Fixing Type & Size Requirements



Step 1. Install internal lining or external cladding as per manufacturer instruction. Position the mounting track and secure using screws into support substrate. See page 9 for details on support substrates.



Step 2. Once Mounting Track is secure, fix the Batten or Slat Base profile through the Mounting Track at your desired spacing.



Step 3. Once the Batten/Slat Base profile is securely fixed to mounting track, click the top Batten/Slat Cover profile into place.



Step 4. If required, secure colour matched aluminium end caps.

Fixing Requirements

Please refer to Alteria's *Technical Supplement: Span & Fixing Detail - Battens & Slats* document for fixing requirements and fixing spacing span tables. See page 8-9 for details.

This section offers guidance on installing Alteria's **Mounting Track for Acoustic Walls** for internal acoustic wall applications. The process includes mounting the track, adding acoustic panels, and securing two-piece battens directly onto the track.

Mounting Track available in standard black – however any wood look or flat colour can be used on request.

For advice on maximum fixing spacings and span tables, refer to our *Technical Supplement: Span & Fixing Detail - Battens & Slats* document.

Suitable for:

- Vertical batten orientations
- Internal applications
- Acoustic Wall applications

Common Applications:

- Over internal wall with acoustic backing



- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Two Piece Batten/Slat Cover 2. Two Piece Batten/Slat Base 3. Mounting Track - Acoustic 4. Acoustic Backing
Supplied by other - Up to 12mm panel can be used. | <ol style="list-style-type: none"> 5. End Caps
See page 15 6. Fixing Substructure
See page 26 |
|--|---|

Mounting Track Fix - Acoustic Walls

This section provides advice for installing Alteria Aluminium's two piece battens or slats using our acoustic mounting tracks for internal vertical acoustic wall installations.

Alteria Required Accessories



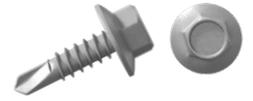
Two Piece Aluminium Batten or Slat



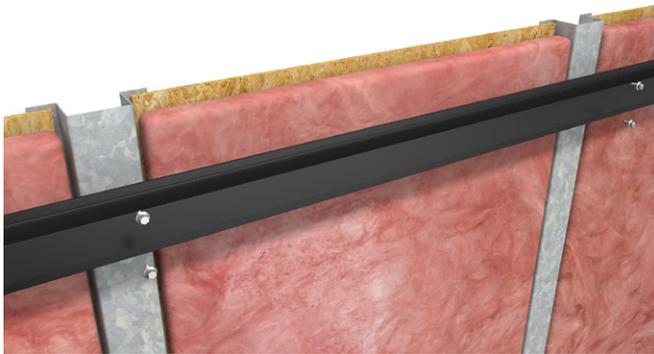
Batten End Cap (Optional)



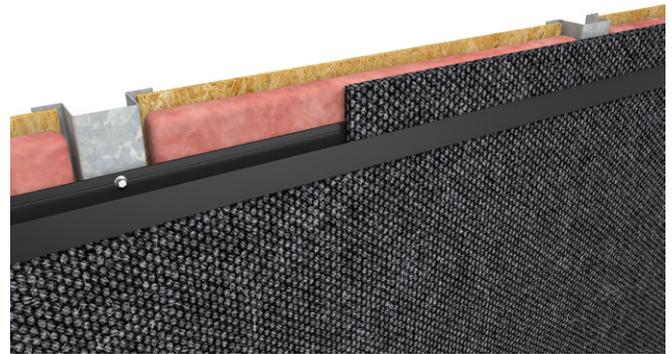
Mounting Track



Substrate Fixing Screw
Refer to pg 9 for Fixing Type & Size Requirements



Step 1. Position the mounting track and secure using screws into support substrate. See page 9 for details on support substrates.



Step 2. Install Acoustic Insulation Panel (supplied by others) as per manufacturers instruction. Panel thickness up to 12mm can be used.



Step 3. Once Mounting Track and acoustic panel is installed, fix the Batten or Slat Base profile through the Mounting Track at the desired spacing.



Step 4. Once the Batten/Slat Base profile is securely fixed to mounting track, click the top Batten/Slat Cover profile into place. If required, secure colour matched aluminium end caps.

Fixing Requirements

Multiple Mounting Tracks may be required depending on the size of the batten. Refer to the *Technical Supplement: Span & Fixing Detail - Battens & Slats* document for details, including fixing requirements, fixing spacings and span tables. See page 8-9 for details.

Using the **Support Bracket Fix** method, this section provides guidance on installing floor to ceiling two-piece battens with Alteria's proprietary L-shaped support brackets, ensuring secure attachment to a support substrate.

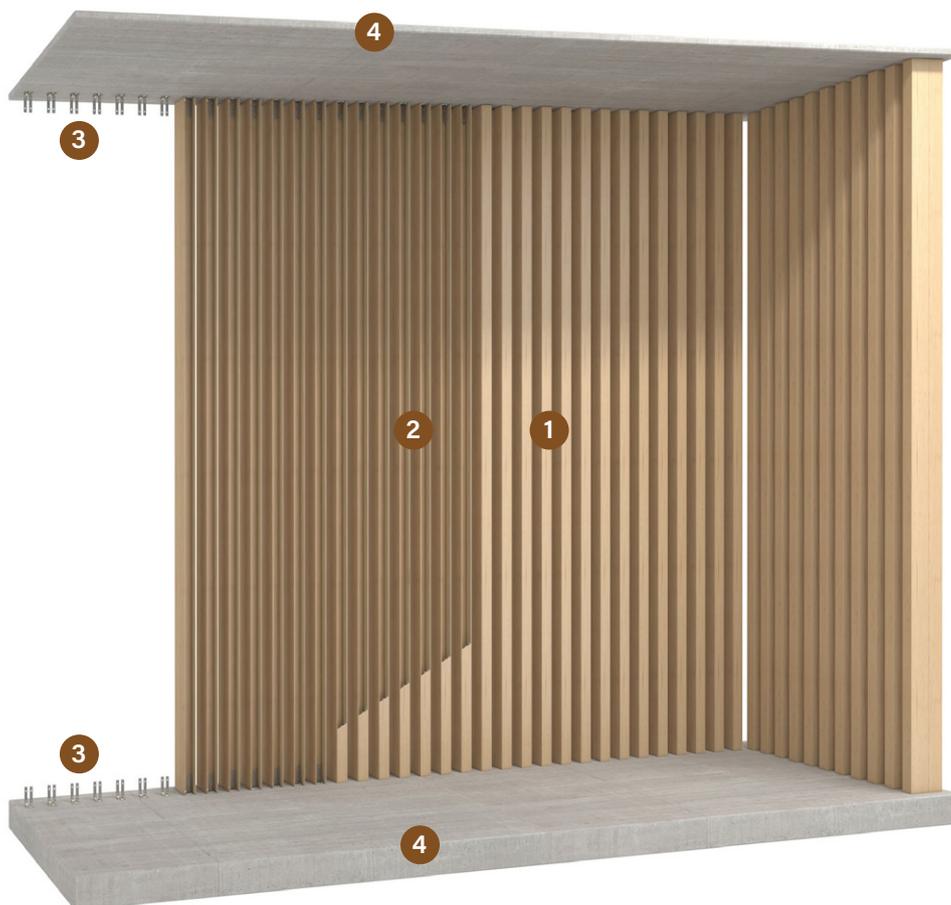
For advice on maximum fixing spacings and span tables, refer to our *Technical Supplement: Span & Fixing Detail - Battens & Slats* document.

Suitable for:

- Vertical batten orientations
- Internal & external applications
- Screens, railings and pergolas

Common Applications:

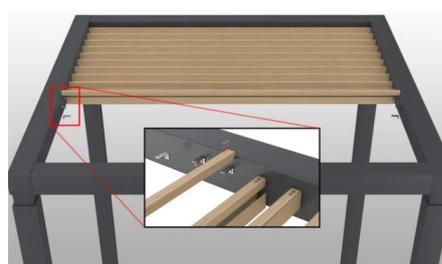
- Floor to ceiling internal screens
- Floor to ceiling external screens
- Infill for pergola/pavilion structures



- | | |
|---------------------------|---------------------------------------|
| 1. Two Piece Batten Cover | 3. Support Bracket |
| 2. Two Piece Batten Base | 4. Fixing Substructure
See page 26 |

Pergola Roof Infill Install

The install process for the support bracket fix within a soffit or pergola frame is the same as highlighted *right*.



Support Bracket Fix - Floor to Ceiling Screen

This section provides advice for installing Alteria Aluminium's two piece battens for vertical floor to ceiling screen applications. The process for pergola roof infills remains the same.

Alteria Required Accessories



Two Piece Aluminium Batten or Slat



Support Brackets



Substrate Fixing Screw
Refer to pg 9 for Fixing Type & Size Requirements



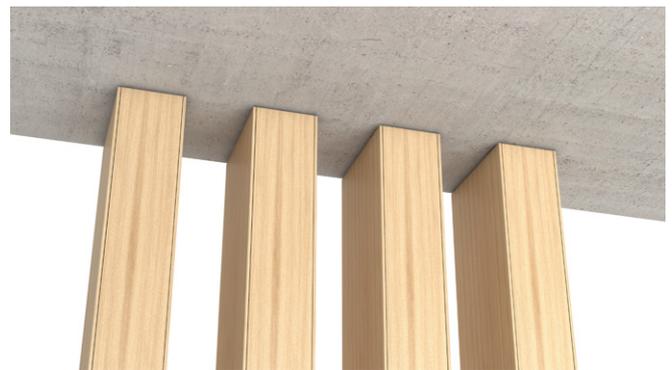
Step 1. Secure Support Bracket to ceiling and to the floor with suitable fixing screw or anchor. Ensure that the floor and ceiling support brackets line up.



Step 2. Secure the two piece batten cover to the support brackets using adequate screws.



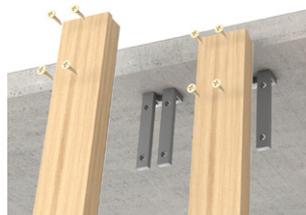
Step 3. Once the Batten Base profile is securely fixed to support brackets, click the top Batten Cover profile into place.



Step 4. Repeat with remaining battens.

Alteria tip

For batten profiles without a gusset, you will need to screw from the outside of the batten though to the mounting plates. Colour matches screws available.



Fixing Requirements

Please refer to Alteria's *Technical Supplement: Span & Fixing Detail - Battens & Slats* document for fixing requirements and fixing spacing span tables. See page 8-9 for details.

This section provides guidance on installing one-piece battens using the **Rear Fix** method onto a supporting frame. If a concealed finish is required, consider using our two-piece batten or slats.

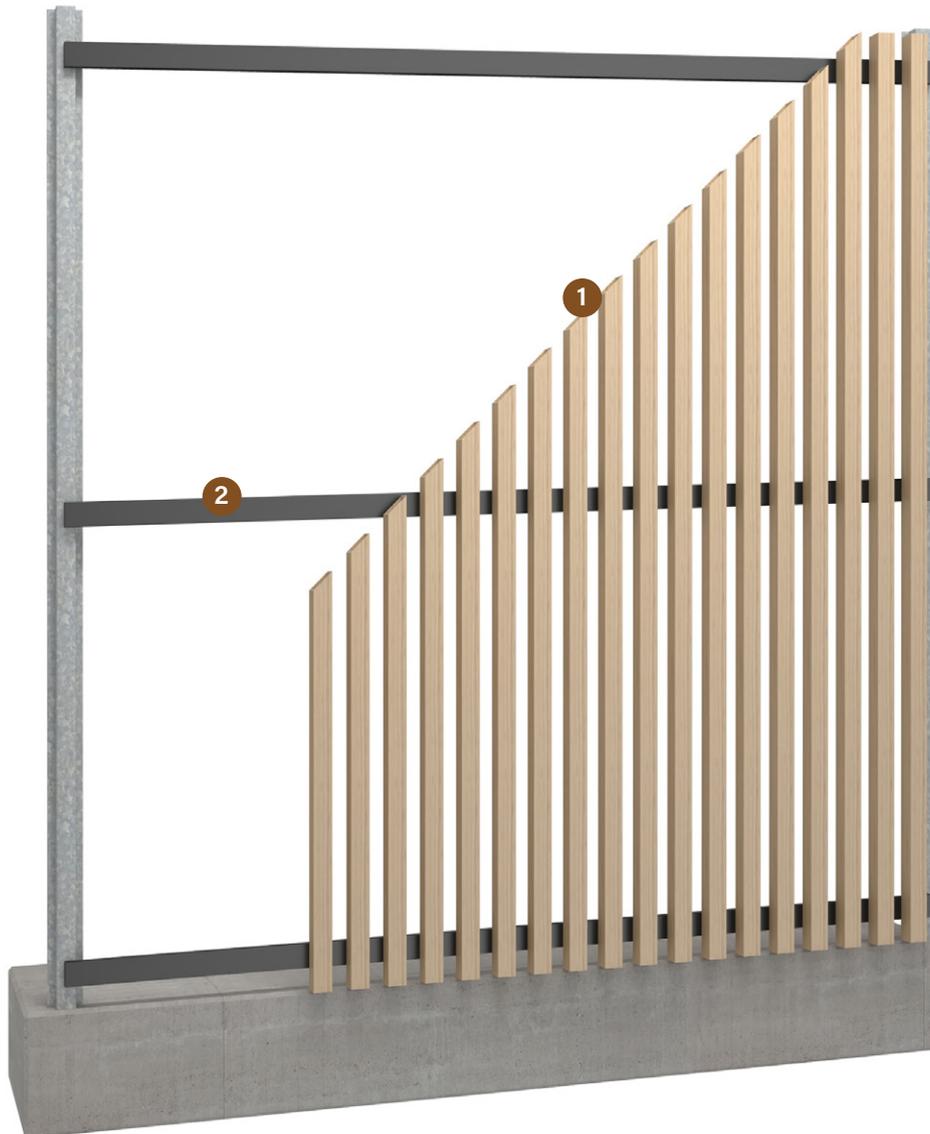
For advice on maximum fixing spacings and span tables, refer to our *Technical Supplement: Span & Fixing Detail - Battens & Slats* document.

Suitable for:

- Vertical & horizontal batten orientations
- Internal & external applications
- Ceiling & wall applications

Common Applications:

- Fixed to structural frames
- Fixed to fences

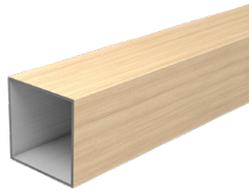


1. One Piece Batten
2. Support Frame

Rear Fix - To Frame

This section provides advice for installing Alteria Aluminium's one piece battens to a frame using rear fix.

Alteria Required Accessories



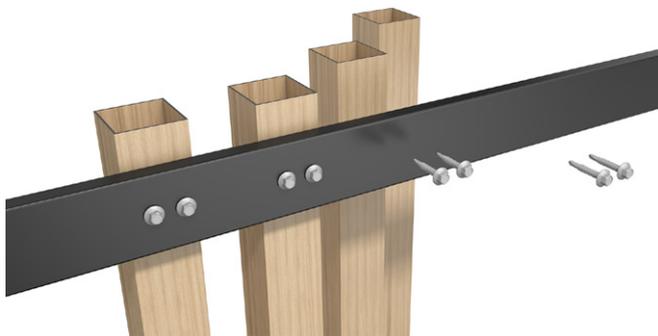
One Piece Aluminium Batten



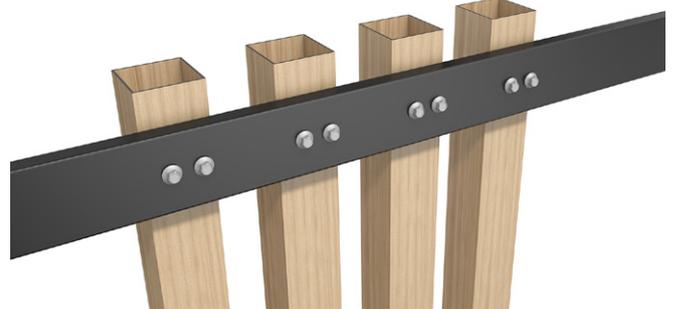
Friction Fit Batten End Cap
(Optional)



Substrate Fixing Screw
Refer to pg 9 for Fixing
Type & Size Requirements



Step 1. Install support Frame (supplied by others) as per manufacturer instructions. Place batten at desired location.



Step 2. On the frame side, secure the batten using adequate screws.



Step 3. If required, secure colour matched aluminium end caps.



Step 4. Repeat for remaining battens.

Alteria tip 

Front Fix

If Rear fix is not possible, then front fix can be used. Ensure to follow similar process as above ensuring the fixing adequately penetrates the support frame.

Fixing Requirements

Please refer to Alteria's *Technical Supplement: Span & Fixing Detail - Battens & Slats* document for fixing requirements and fixing spacing span tables. See page 8-9 for details.

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 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 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

Visit alteria.com.au



ALTERIA

SIGNATURE ALUMINIUM SYSTEMS

1300 258 825

support@alteria.com.au

alteria.com.au

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