

ALTERIA
SIGNATURE ALUMINIUM SYSTEMS

BATTENS
INSTALLATION GUIDE





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

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



Application

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

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

Substrate / Base Material

Aluminium 6060 T5 Alloy.

Lengths

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

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

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

Fire Certification

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

Contact Alteria for more details.

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

BCA Compliance

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

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

Finishes & Colours

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

See page 8 for colour options within each range.

Warranty

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

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



Alteria Aluminium Battens | 2-Piece Aluminium Batten Fixing System



Alteria Aluminium Claddings | Interlocking Aluminium Cladding System

Batten Profile 30 x 50mm



Batten Profile 30 x 80mm



Batten Profile 30 x 120mm



Batten Base 30mm



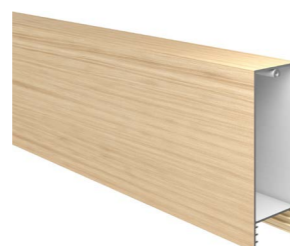
Batten Profile 50 x 50mm



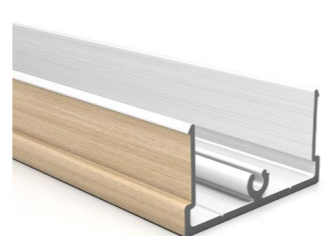
Batten Profile 50 x 100mm



Batten Profile 50 x 150mm



Batten Base 50mm



Cladding 125mm



Cladding 180mm



Cladding Accessories

Starter Profile



Joiner Profile - 2 Piece



Finisher Profile - 2 Piece



Corner Profile - 2 Piece



View Alteria's Cladding Installation Guide for further details.

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

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

Evoke Range

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



Meridian Range

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



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

Aurora Range

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



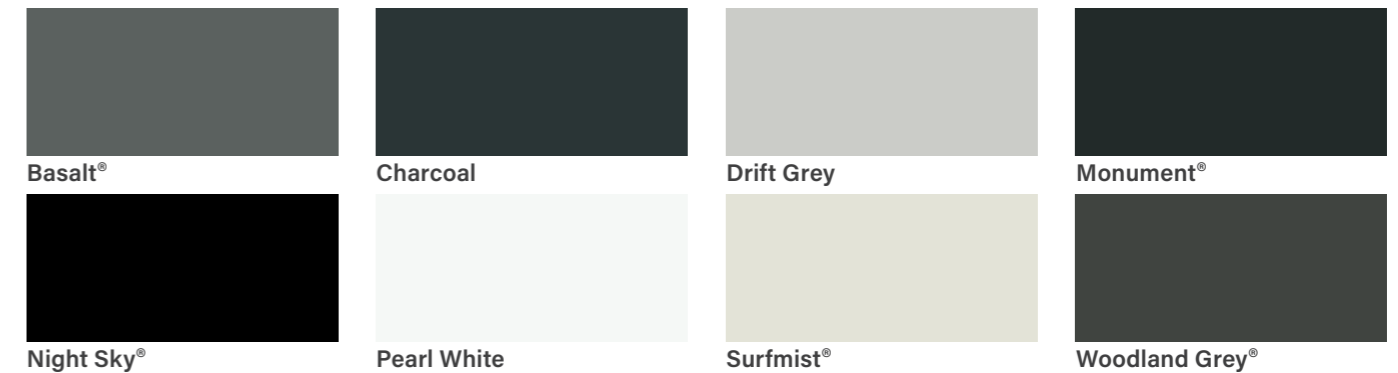
Lumi Range

Decorative collection of pearlescent colours with a shimmering matt finish.



Essentials Range

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



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

Preparation

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

Substructure

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

Ground Clearances

Ground Clearance requirements are as follows:

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

Moisture Management

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

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

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

Weather Barriers

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

To abide by these standards, weather barriers must provide:

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

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

Movement & Expansion

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

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

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

Cutting

Please follow the below when cutting Truwood battens and claddings

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

Cutting Service Available

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



Drilling

Please follow the below when drilling Alteria battens and claddings.

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

SAFETY



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

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

Recommended safety precautions:

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

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

NEVER use a power saw indoors.

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

ALWAYS follow tool manufacturers' safety recommendations.

System & Substrate Supplies

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



Layout

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



Batten - Horizontal
Over Exterior Cladding
Go to page 18 for installation details.



Batten - Vertical
Over Exterior Cladding
Go to page 18 for installation details.



Cladding - Horizontal
Over Top Hats
View Alteria's Cladding Installation Guide for details.



Cladding - Vertical
Over Top Hats
View Alteria's Cladding Installation Guide for details.

Batten - Vertical
Floor to Ceiling Mounting Plates
Go to page 22 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](http://alteria.com.au)



Application

Battens can be installed horizontally or vertically and are suitable for both internal and external applications.

Batten Profile Sizes

Alteria battens are available in available in the following sizes:

| | |
|------------|------------|
| 30 x 50mm | 50 x 50mm |
| 30 x 80mm | 50 x 100mm |
| 30 x 120mm | 50 x 150mm |

Fixing System & Accessories

Alteria Aluminium Battens use a direct fix two-piece click system for easy installation.

Alteria have developed relevant profile trims and accessories to allow for a faster and seamless installation. See page 16 for system details and accessories.

Design & Layout

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

The most common layouts for battens include installation over exterior cladding or internal linings, or floor to ceiling installation with mounting plates.

External Installation

Alteria 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

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

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

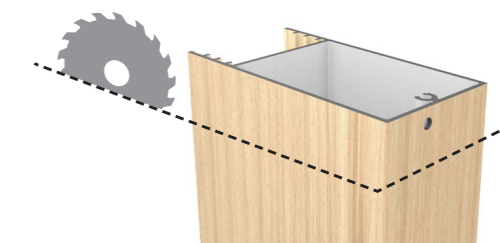
Batten Lengths

All battens come in standard 6500mm lengths.

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

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

See page 11 for cutting tips



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 Male Profile across a single batten as this helps to achieve a straight finish.

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.

Fixing Distances

See Span Table section (page 26) for fixing distance requirements for battens.

Applications Over One Storey

In some applications over one storey, particularly in areas with higher wind loads, it is recommended to apply a mechanical screw/fixing or polyurethane adhesive sealant/glue to secure the batten. For more information please see page 21 or contact us for further advice.

Batten End Caps

Alteria Aluminium end caps are colour matched to your batten profile size and can be easily fixed into place after batten profile has been installed. There are two end cap options available.

Screw Fit End Caps

Batten profiles have been designed with screw flutes to allow a screw to be securely inserted into the profile. End caps come with countersunk screw holes pre-drilled. Colour matched screws are also available.

Concealed Friction Fit End Caps

If you require a seamless finish, then you can select our friction fit concealed end caps. These end caps have been designed to snugly fit our batten profiles and do not require any exposed screws. If required, a suitable polyurethane adhesive sealant can be used in conjunction.



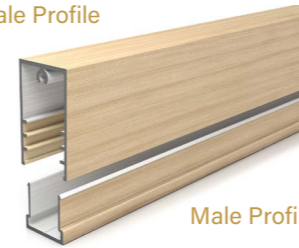
1. Batten Profile
2. Backing Base
3. Exterior Cladding
4. Top Hats
5. Weather Barrier



Accessories

Aluminium Batten Profile & Base

Female Profile



Male Profile

Batten End Cap



Micro Flat Head Screw



Mounting Plates



Countersunk Screw



Two-piece Batten System comprising batten profile and batten base.

| | 30mm Series: | 50mm Series: |
|--|--------------|--------------|
| | 30 x 50mm | 50 x 50mm |
| | 30 x 80mm | 50 x 100mm |
| | 30 x 120mm | 50 x 150mm |
| | 30m Base | 50m Base |

Colour matched end cap. Available in Screw Fit or Concealed Fit.

Available in 30mm & 50mm.

See page 15 for details.

Screw required to secure batten profiles to exterior cladding or internal lining. Minimum C3 Galvanized screw recommended.

10g x 22mm

Mounting plate required to secure batten for floor to ceiling batten applications.

Available in 30mm & 50mm.

Screw required to secure Screw Fit End Cap to batten profile. Colour match options available.

8g x 20mm SS304 phillips countersunk screw

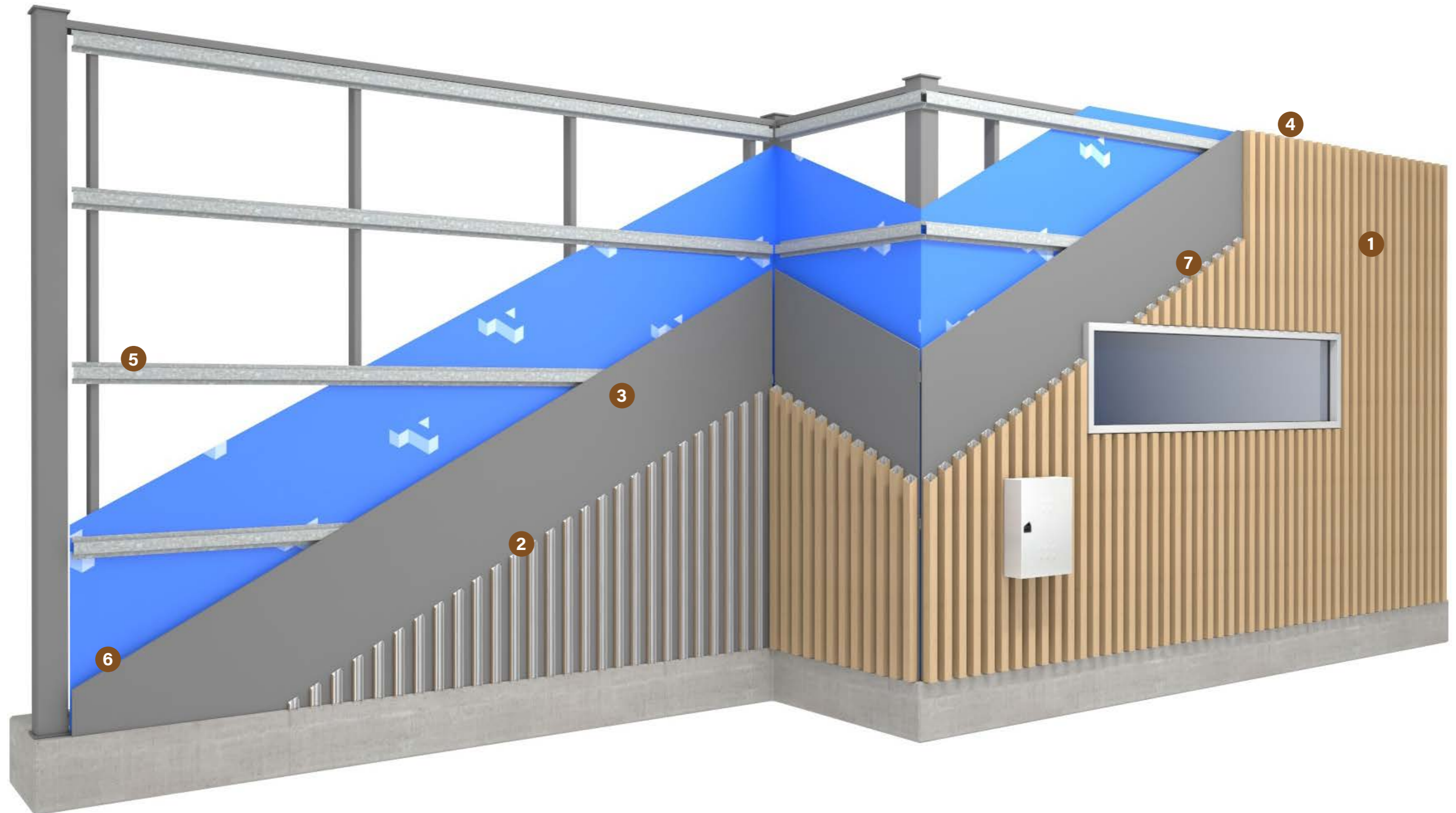
All Alteria Aluminium System Profiles & Accessories available from our major distributor Trumark.

Batten Install Overview - Over Cladding/Lining

Alteria Aluminium battens can be installed both vertically and horizontally.

This section provides advice for installing battens over external claddings or internal linings.

1. Batten Profile
2. Batten Base
3. External Cladding / Lining Board
4. End Caps [See page 15](#)
5. Top Hat Span Tables [See page 26](#)
6. Preparation & Substructure Detail [See page 10](#)
7. Cutting [See page 11](#)



Installation Over Exterior Cladding / Interior Linings

There are various installation methods that can be implemented when installing battens. The below highlights the most common way when installing over exterior cladding.

Accessories required:



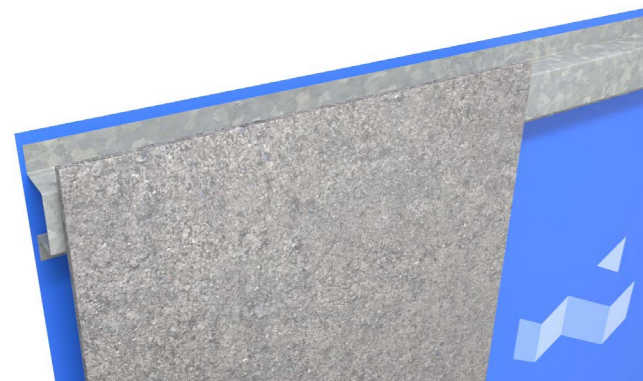
2-Piece Aluminium Batten



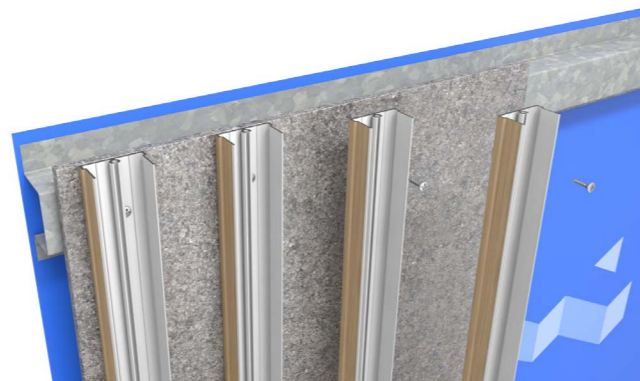
Batten End Cap



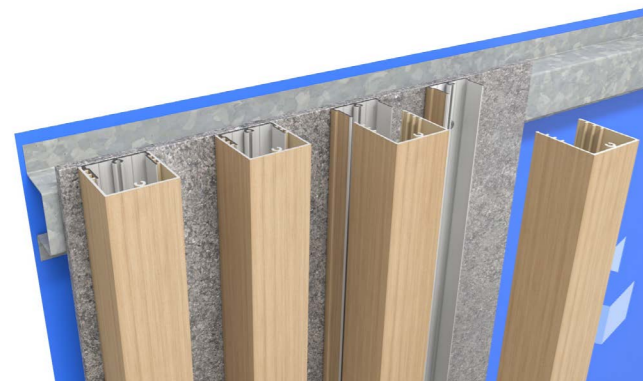
Micro Flat Head Screw



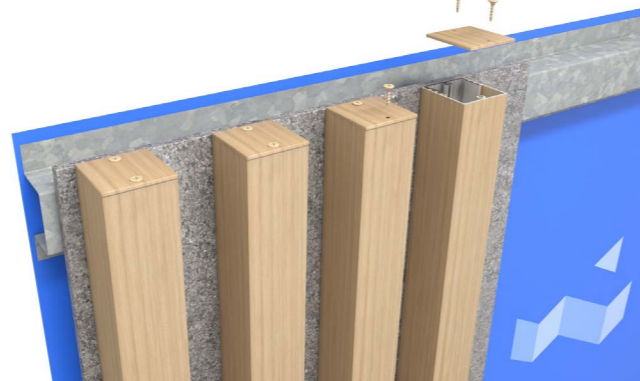
Step 1. Install exterior cladding and weatherproofing as per manufacturer instruction.



Step 2. Separate the Batten backing clip from the Batten profile and screw batten backing clip directly to the wall using a 22mm micro flat head screw.



Step 3. Once backing clip is secure, click in the top batten profile.



Step 4. Click in colour-matched batten end caps and secure with a screw into screw flutes. Friction Fit End Cap can also be used. See page 15 for more detail on end caps.

Alteria tip

Exterior Cladding

When installing Alteria directly to cladding - ensure you refer to cladding manufacturers guidelines for suitability or fixing requirements.

Securing Battens

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



Applications Over One Storey

In some applications over one storey, particularly in areas with higher wind loads, it is recommended to apply on both ends of the batten either a 20 - 30cm bead of suitable polyurethane adhesive sealant/glue or a mechanically fixed rivet or screw.

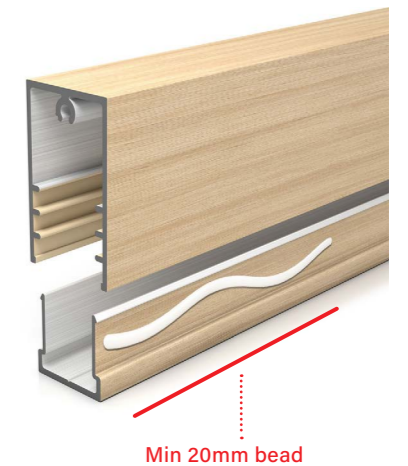
Alteria can supply a colour matched micro flat head screw for a seamless application.

Option 1: Mechanical Fix



Screw Fix

Option 2: Sealant/Glue Fix



Min 20mm bead

Batten Install Overview - Floor to Ceiling

This section provides advice for installing battens vertically from floor to ceiling with the use of mounting plates.

- 1. Batten Profile
- 2. Batten Base
- 3. Ceiling Mounting Plate
- 4. Floor Mounting Plate
- 5. Cutting



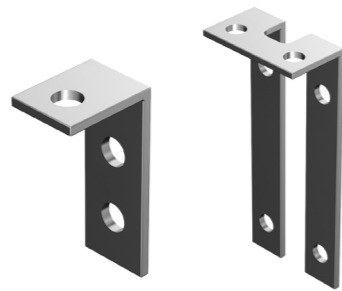
Floor to Ceiling with Mounting Plates

Battens can also be installed floor to ceiling using mounting plates. This method is suitable when all sides of the battens need to be exposed, including when installed as screening or railings.

Accessories required:



2-Piece Aluminium Batten



Mounting Plates



Micro Flat Head Screw



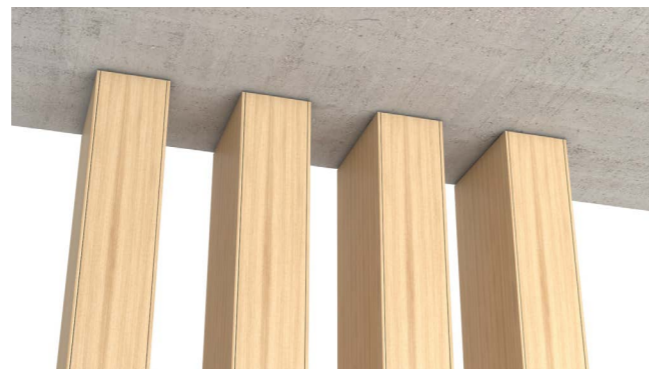
Step 1. Secure Mounting Plate to ceiling and to the floor with suitable anchor. Ensure that the floor and ceiling mounting plates line up.



Step 2. Secure the Batten Profile to the mounting plate with micro flat head screws.



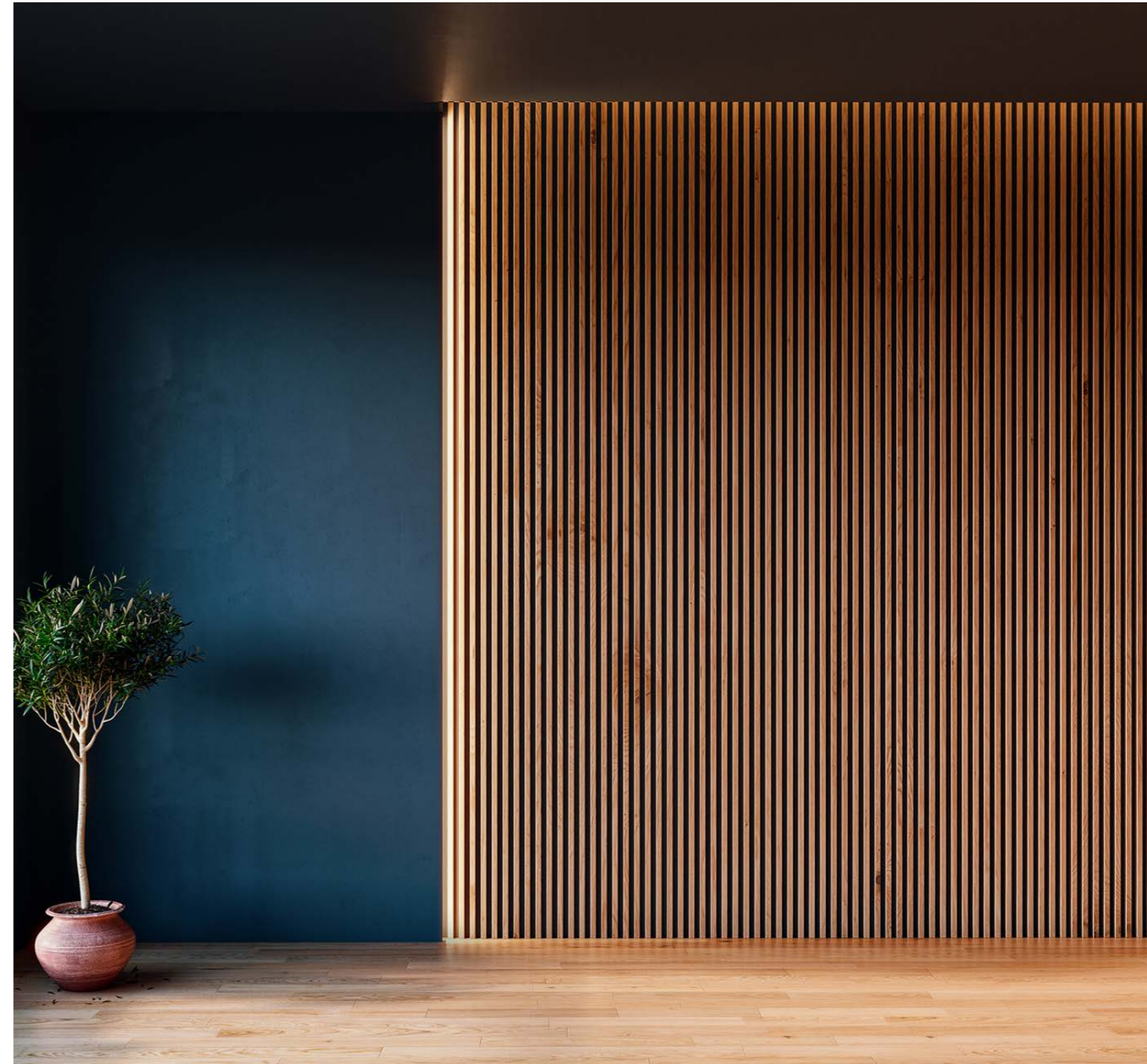
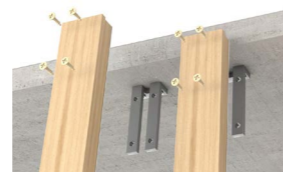
Step 3. Clip the Batten Base into the Batten Profile.



Step 4. Repeat with remaining battens.

Alteria tip

For the 50 x 50 batten you will need to screw from the outside of the batten though to the mounting plates. Colour matches screws available.



Top Hat Span Tables for Alteria Aluminium Battens

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

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

30mm Batten Range

FIXING SPACING: For 30x50mm Battens

| | Wind Region A | Wind Region B | Wind Region C |
|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Steel Stud 0.55 BMT | Single Fixing | Single Fixing | Single Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 2150 | 1850 | 1400 |
| Steel Stud 0.75 BMT | Single Fixing | Single Fixing | Single Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 2150 | 1850 | 1400 |
| Steel Stud 1.0 BMT | Single Fixing | Single Fixing | Single Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 2150 | 1850 | 1400 |
| Timber F7 pine | Single Fixing | Single Fixing | Single Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 2150 | 1850 | 1400 |
| Timber F17 hardwood | Single Fixing | Single Fixing | Single Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 2150 | 1850 | 1400 |
| Concrete N≥25 | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 2150 | 1950 | 1600 |
| Solid brick | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 2150 | 1950 | 1600 |
| 3 hold brick | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 2150 | 1950 | 1600 |
| Concrete block | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 2150 | 1950 | 1600 |

FIXING SPACING: For 30x80mm Battens

| | Wind Region A | Wind Region B | Wind Region C |
|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Steel Stud 0.55 BMT | Single Fixing | Single Fixing | Single Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 1250 | 700 | 500 |
| Steel Stud 0.75 BMT | Single Fixing | Single Fixing | Single Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 1250 | 700 | 500 |
| Steel Stud 1.0 BMT | Single Fixing | Single Fixing | Single Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 1250 | 700 | 500 |
| Timber F7 pine | Single Fixing | Single Fixing | Single Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 1250 | 700 | 500 |
| Timber F17 hardwood | Single Fixing | Single Fixing | Single Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 1250 | 700 | 500 |
| Concrete N≥25 | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 2100 | 1900 | 1600 |
| Solid brick | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 2100 | 1700 | 1250 |
| 3 hold brick | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 2100 | 1700 | 1250 |
| Concrete block | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 1100 | 600 | 450 |

FIXING SPACING: For 30x120mm Battens

| | Wind Region A | Wind Region B | Wind Region C |
|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Steel Stud 0.55 BMT | Single Fixing | Single Fixing | Single Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 550 | 300 | 200 |
| Steel Stud 0.75 BMT | Single Fixing | Single Fixing | Single Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 550 | 300 | 200 |
| Steel Stud 1.0 BMT | Single Fixing | Single Fixing | Single Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 550 | 300 | 200 |
| Timber F7 pine | Single Fixing | Single Fixing | Single Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 550 | 300 | 200 |
| Timber F17 hardwood | Single Fixing | Single Fixing | Single Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 550 | 300 | 200 |
| Concrete N≥25 | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 2100 | 1550 | 1150 |
| Solid brick | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 1350 | 750 | 550 |
| 3 hold brick | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 1350 | 750 | 550 |
| Concrete block | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 500 | 250 | 200 |

Top Hat Span Tables for Alteria Aluminium Battens

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

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

50mm Batten Range

FIXING SPACING: For 50x50 Battens

| | Wind Region A | Wind Region B | Wind Region C |
|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Steel Stud 0.55 BMT | Double Fixing | Double Fixing | Double Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 3200 | 2650 | 2400 |
| Steel Stud 0.75 BMT | Double Fixing | Double Fixing | Double Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 3200 | 2650 | 2400 |
| Steel Stud 1.0 BMT | Double Fixing | Double Fixing | Double Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 3200 | 2650 | 2400 |
| Timber F7 pine | Double Fixing | Double Fixing | Double Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 3200 | 2650 | 2400 |
| Timber F17 hardwood | Double Fixing | Double Fixing | Double Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 3200 | 2650 | 2400 |
| Concrete N≥25 | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 3200 | 2650 | 1200 |
| Solid brick | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 3200 | 2650 | 2400 |
| 3 hold brick | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 3200 | 2650 | 2400 |
| Concrete block | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 3200 | 2650 | 2000 |

FIXING SPACING: For 50x100 Battens

| | Wind Region A | Wind Region B | Wind Region C |
|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Steel Stud 0.55 BMT | Double Fixing | Double Fixing | Double Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 2050 | 1150 | 850 |
| Steel Stud 0.75 BMT | Double Fixing | Double Fixing | Double Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 2050 | 1150 | 850 |
| Steel Stud 1.0 BMT | Double Fixing | Double Fixing | Double Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 2050 | 1150 | 850 |
| Timber F7 pine | Double Fixing | Double Fixing | Double Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 2050 | 1150 | 850 |
| Timber F17 hardwood | Double Fixing | Double Fixing | Double Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 2050 | 1150 | 850 |
| Concrete N≥25 | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 3700 | 3300 | 2450 |
| Solid brick | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 3250 | 1800 | 1350 |
| 3 hold brick | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 3250 | 1800 | 1350 |
| Concrete block | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 1200 | 650 | 500 |

FIXING SPACING: For 50x150 Battens

| | Wind Region A | Wind Region B | Wind Region C |
|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Steel Stud 0.55 BMT | Double Fixing | Double Fixing | Double Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 900 | 500 | 350 |
| Steel Stud 0.75 BMT | Double Fixing | Double Fixing | Double Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 900 | 500 | 350 |
| Steel Stud 1.0 BMT | Double Fixing | Double Fixing | Double Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 900 | 500 | 350 |
| Timber F7 pine | Double Fixing | Double Fixing | Double Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 900 | 500 | 350 |
| Timber F17 hardwood | Double Fixing | Double Fixing | Double Fixing |
| | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips | Buildex #14-12 CyclonicZips |
| | 900 | 500 | 350 |
| Concrete N≥25 | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 2900 | 1650 | 1200 |
| Solid brick | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 1400 | 800 | 600 |
| 3 hold brick | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 1400 | 800 | 600 |
| Concrete block | Single Fixing | Single Fixing | Single Fixing |
| | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 | RAMSET WERCS AnkaScrew #8 |
| | 500 | 300 | 200 |

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

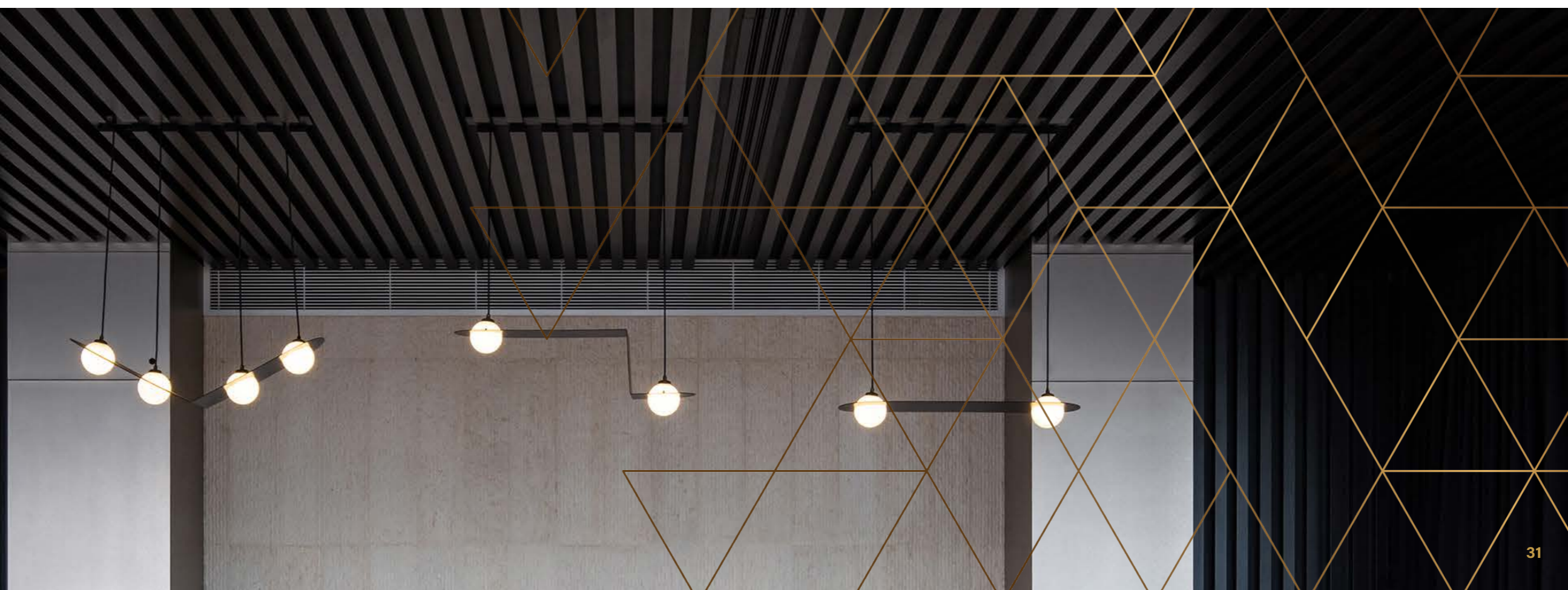
Alteria Aluminium batten and claddings are low maintenance systems that requires minimal cleaning, especially when compared to timber or steel. To help maintain the integrity of the powder coated finish, it is necessary to consider the care and maintenance requirements.

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.



About Alteria Signature Aluminium Systems

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

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

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

Working with Alteria

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

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

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

Disclaimer

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

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

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

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

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

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

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In case of doubt, please contact Alteria.

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