



DecoBatten®

Installation Guide

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Introduction

Performance

As part of Deco's commitment to compliant building products, the DecoBatten® systems have been designed to meet Australia's stringent building standards. The DecoBatten® range has been tested and has passed the following standards.

Certifications

All testing has been done using the details provided in this installation guide. To claim the performances set out herein, the details in this guide must be followed. The testing body for the following standards is CSIRO.

Description/Standard

- Combustibility test for materials - AS1530.1/CSIRO
- Determination of ignitability, flame propagation, heat release and smoke release - AS/NZ1530.3/CSIRO
- Heat and smoke release rates for materials - AS3837/CSIRO

DecoBatten® is also compliant with the NCC Non-Combustible building elements. (C2D10 (6)(e) Non-Combustible building elements)

Suggested Installation Tools

Screw/Rivet



Metal – colour-matched pop rivets or self drilling TEK screws

Wood – self drilling timber screws



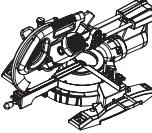
Sealant/Adhesive

Deco recommends the use of high-quality sealant and adhesives.



Impact Driver

A high-quality Impact Driver with an appropriate driver bit is recommended for fixing all extrusions to the building structure.



Mitre Saw

A high-quality Mitre Saw equipped with an aluminium cutting blade is recommended for cutting the battens to length and trimming the batten ends.

Preparation

Useable Extrusion Length

All DecoBatten® profiles and accessories are supplied in 6.5m lengths. As part of the manufacturing process, the first 10mm of both ends of the extrusion are taped and not imaged, therefore each extrusion will need to be trimmed by 25mm on each end to remove the tape and provide a clean finish. After the removal of each end, the useable length of each extrusion is 6.45m.

Installation Surface

The installation surface should be clean and flat, and preparations (such as backing color) should be applied before the installation of DecoBatten® products.

Handle With Caution

WARNING - When handling DecoBatten® care should be taken and appropriate Personal Protective Equipment should be worn at all times. Failure to do so risks potential serious injury, disablement or death. When processing battens or accessories, care should be taken to ensure that the work space is clean and free from dust, sawdust, metal fines and/or shavings. Processing of battens in areas with excessive dust, sawdust, metal fines and/or shavings risks potential damage to the finished surface.

Supporting Structure and Fixings

Before installation, the supporting structure should be assessed to ensure that it is structurally sound and able to support the live and dead loads of the DecoBatten® products to be installed. When fixing DecoBatten® products, it is recommended that they are fixed at a minimum of 600mm centers when applied to a solid backing or 450mm centers when applied to framing. However, due to the wide variety of installation applications, this may not be required for all cases. Deco recommends that users contact a certified engineer to assess the supporting structure and fixings required when installing DecoBatten®, especially in high-wind and high-risk areas.

DecoBatten® Profiles

One-Piece Batten



Square Hollow Design
(Various Sizes)



Rectangle Hollow Design
(Various Sizes)



Tubular Hollow Design
(Various Sizes)

50mm Range Two-Piece QuickClick® Batten



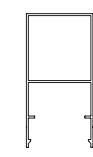
50 x 25
DB01-25
0.421kg/m



50 x 50
DB01-50
0.664kg/m



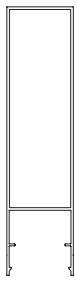
50 x 75
DB01-75
1.160kg/m



50 x 100
DB01-100
1.261kg/m



50 x 150
DB01-150
1.671kg/m



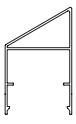
50 x 200
DB01-200
2.665kg/m



50 x 250
DB01-250
3.656kg/m



Radius
50 x 80
DB01-80R
1.146kg/m



Angle
50 x 80
DB01-80A
1.142kg/m

40mm Range Two-Piece QuickClick® Batten



40 x 20
DB03-20
0.325kg/m



40 x 40
DB03-40
0.496kg/m



40 x 80
DB03-80
1.088kg/m



40 x 65
DB03-65R
0.863kg/m



40 x 20
DB03-CCV
0.318kg/m



40 x 25
DB03-CVX
0.324kg/m



25 x 25
DB02-25
0.263kg/m



25 x 50
DB02-50
0.571kg/m



25 x 75
DB02-75
0.810kg/m



25 x 40
DB02-40R
0.397kg/m

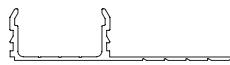


32mm Circular
DB02-32
0.261kg/m

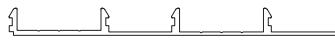
50mm QuickClick® Batten Bases



50mm Standard Base
0.616kg/m



50mm SpaceBase®
0.764kg/m

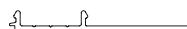


50mm Double SpaceBase®
1.131kg/m

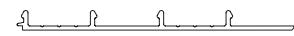
40mm QuickClick® Batten Bases



40mm Standard Base
0.243kg/m



40mm SpaceBase®
0.472kg/m



40mm Double SpaceBase®
0.744kg/m

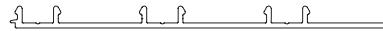
25mm QuickClick® Batten Bases



25mm Standard Base
0.152kg/m



25mm SpaceBase®
0.317kg/m



25mm Triple SpaceBase®
1.045kg/m



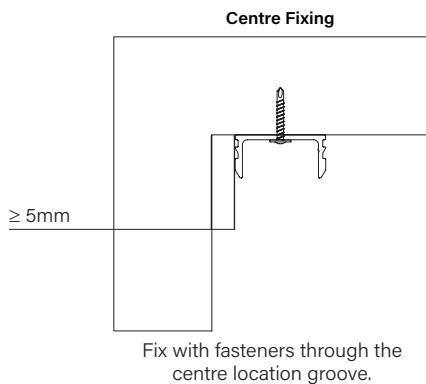
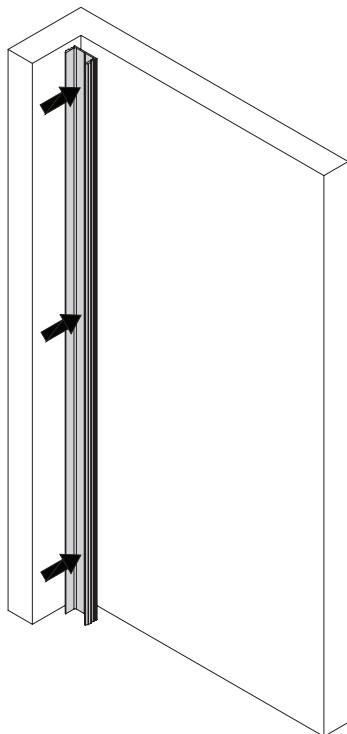
Two-Piece QuickClick® Batten

50mm Standard Base Installation

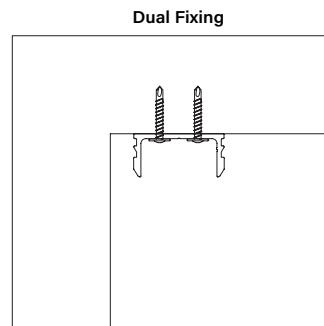
1

Apply the Two-Piece Batten Base to the supporting structure and fix it as required.

If the batten is to be installed close to flush to an end surface, ensure at least 5mm of clearance is provided to allow the batten cover to click over the base. To ensure a straight, consistent, and parallel installation, it is strongly recommended that a level be used to position each base.



Fix with fasteners through the centre location groove.

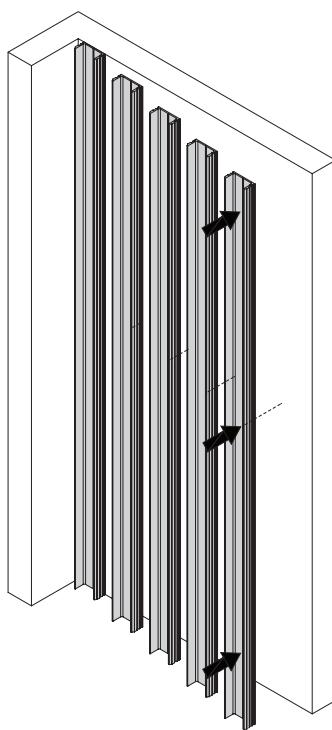


Fix with fasteners at two appropriately spaced locations.

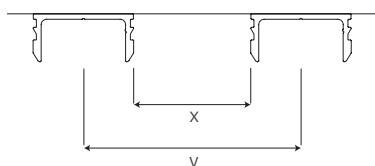
2

Install additional Two-Piece Bases and fix them as required.

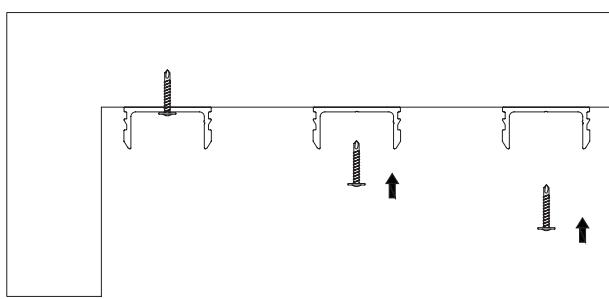
To ensure equal and consistent spacing between each batten, space the bases according to your desired finished spacing using the following formula:



Space Dimensioning



1. X (spacing between bases) = Desired finished spacing + 4mm
2. Y (centre-to-centre spacing) = Desired finished spacing + 50mm

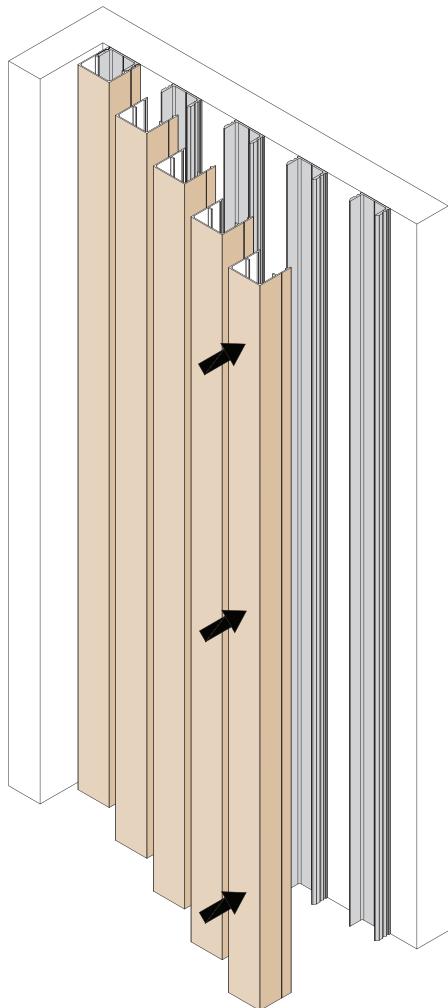


50mm Standard Base Installation

3

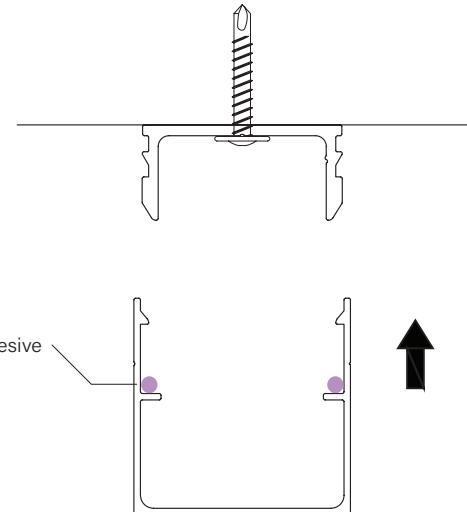
Install additional Two-Piece Batten Covers and fix them as required.

Click the cover over each of the bases, ensuring a tight fit. Although the DecoBatten® product is designed to ensure a secure click fit, if extra security against dislodgement is required, follow the detail provided below.



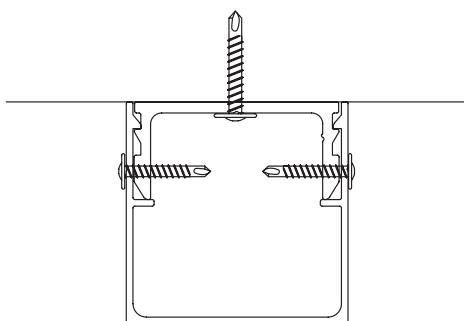
Adhesive Fix

Prior to installation, apply a bead of adhesive to the internal face of the step in the cover and click it over the base. Ensure that the cover is secured in place until the adhesive sets.



Mechanical Fix

Apply screws or rivets as required through the cover and into the base.

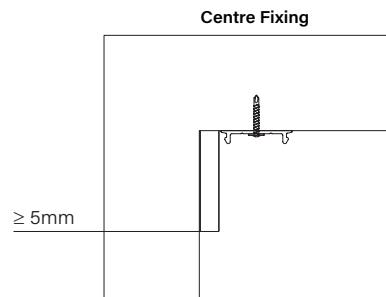
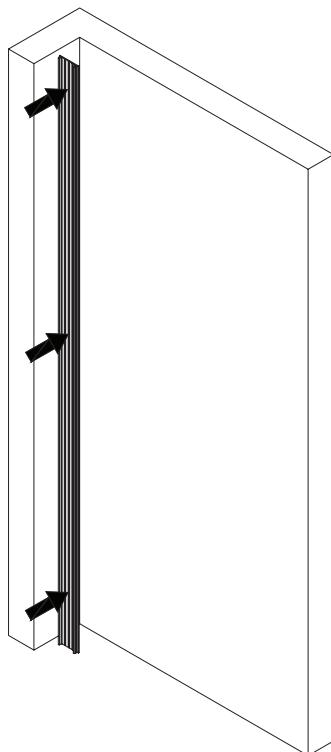


40mm Standard Base Installation

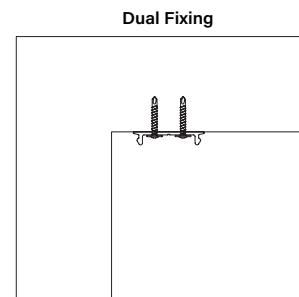
1

Apply the Two-Piece Batten Base to the supporting structure and fix it as required.

If the batten is to be installed close to flush to an end surface, ensure at least 5mm of clearance is provided to allow the batten cover to click over the base. To ensure a straight, consistent, and parallel installation, it is strongly recommended that a level be used to position each base.



Fix with fasteners through the centre location groove.

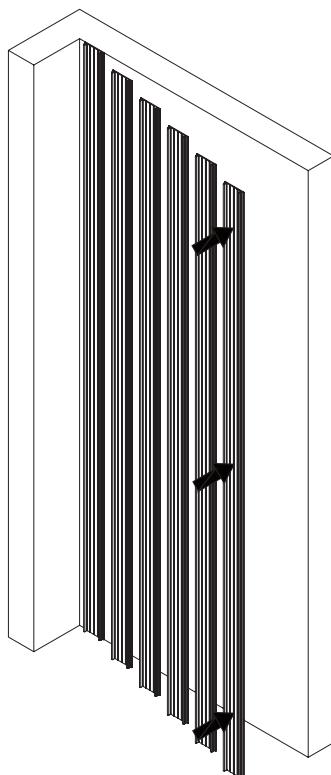


Fix with fasteners at two appropriately spaced locations.

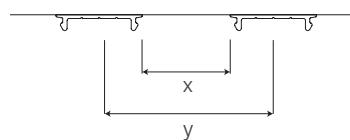
2

Install additional Two-Piece Bases and fix them as required.

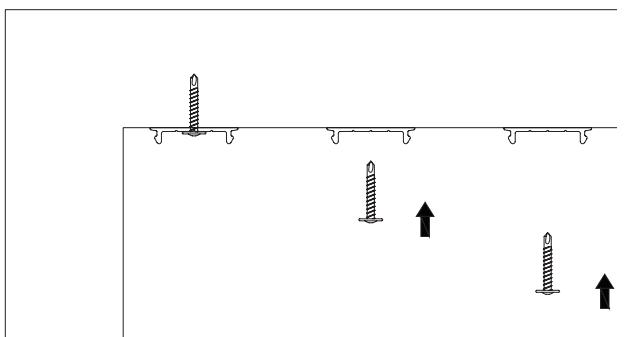
To ensure equal and consistent spacing between each batten, space the bases according to your desired finished spacing using the following formula:



Space Dimensioning



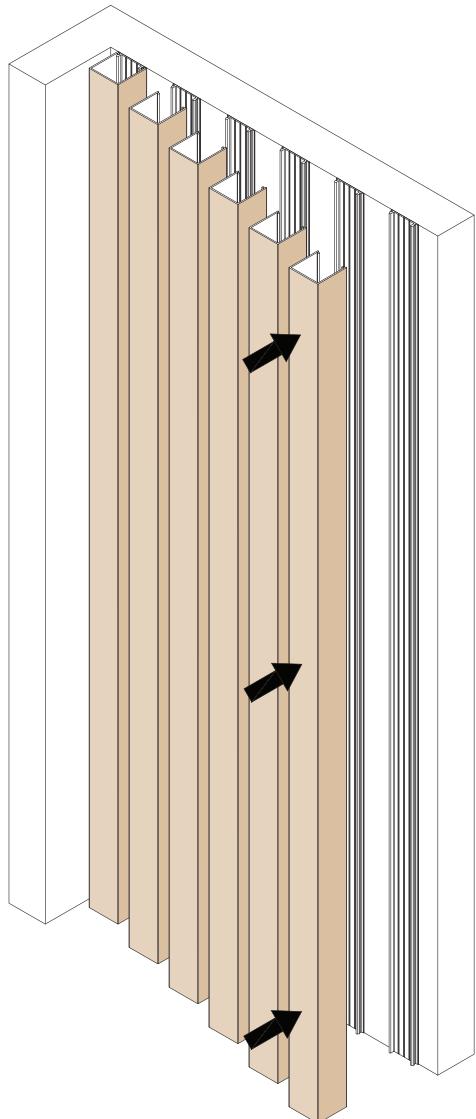
1. X (spacing between bases) = Desired finished spacing + 4mm
2. Y (centre to centre spacing) = Desired finished spacing + 40mm



3

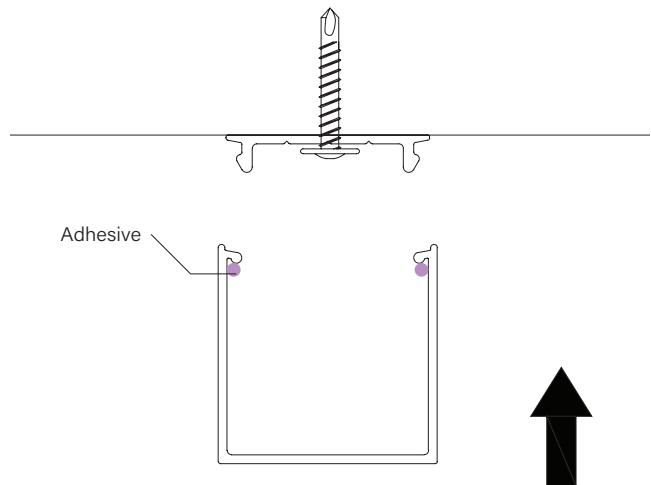
Install additional Two-Piece Batten Covers and fix them as required.

Click the cover over each of the bases, ensuring a tight fit. Although the DecoBatten® product is designed to ensure a secure click fit, if extra security against dislodgement is required, follow the details provided below.



Adhesive Fix

Prior to installation, apply a bead of adhesive to the internal face of the step in the cover and click it over the base. Ensure that the cover is secured in place until the adhesive sets.

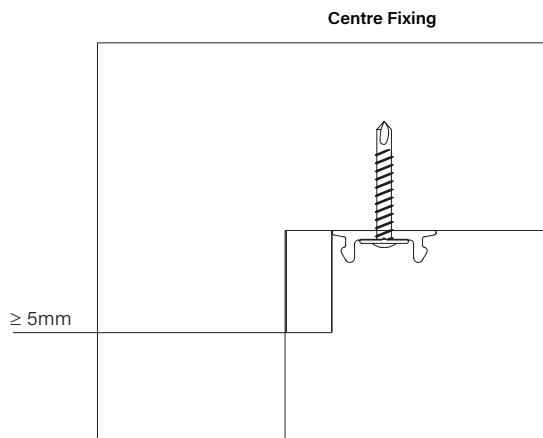
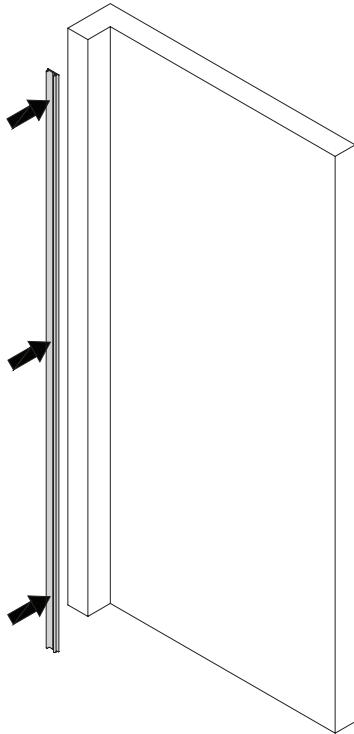


25mm Standard Base Installation

1

Apply the Two-Piece Batten Base to the supporting structure and fix it as required.

If the batten is to be installed close to flush to an end surface, ensure at least 5mm of clearance is provided to allow the batten cover to click over the base. To ensure a straight, consistent, and parallel installation, it is strongly recommended to use a level to position each base.

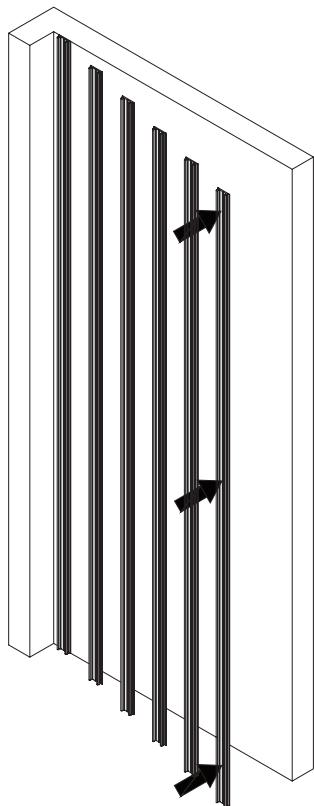


Fix with fasteners through the centre location groove.

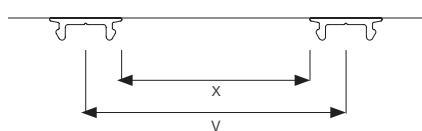
2

Install additional Two-Piece Bases and fix them as required.

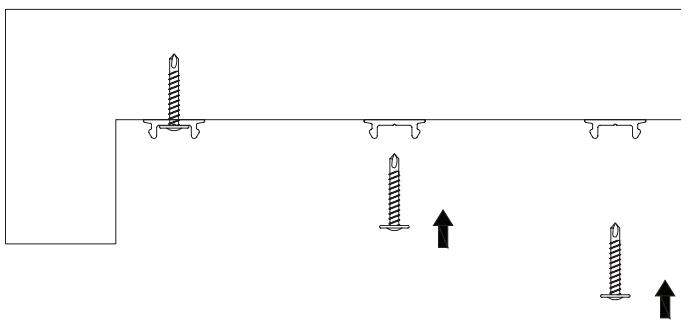
To ensure equal and consistent spacing between each batten, space the bases according to your desired finished spacing using the following formula:



Space Dimensioning



1. X (spacing between bases) = Desired finished spacing + 4mm
2. Y (centre to centre spacing) = Desired finished spacing + 25mm

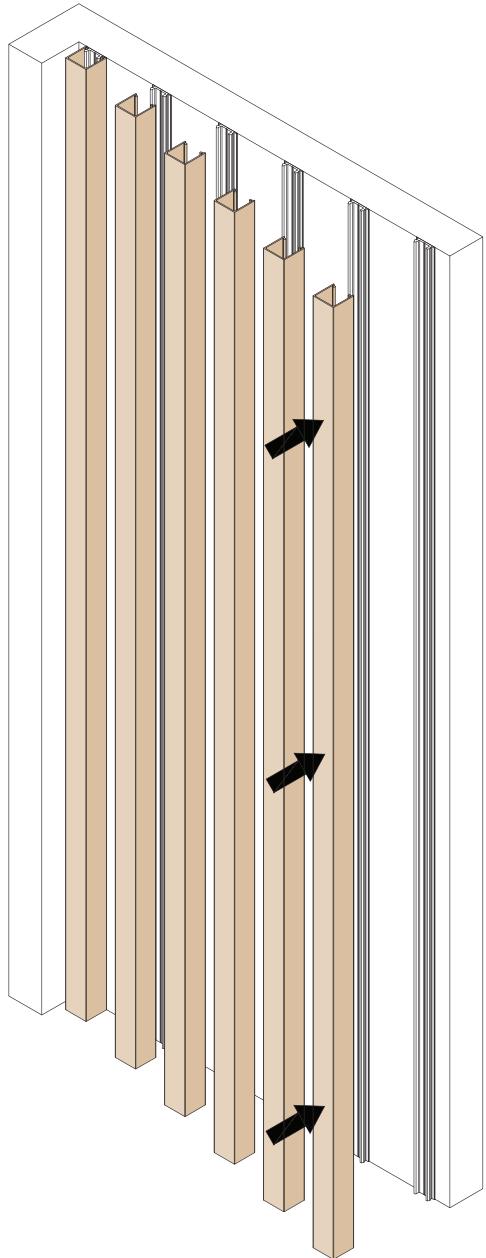


25mm Standard Base Installation

3

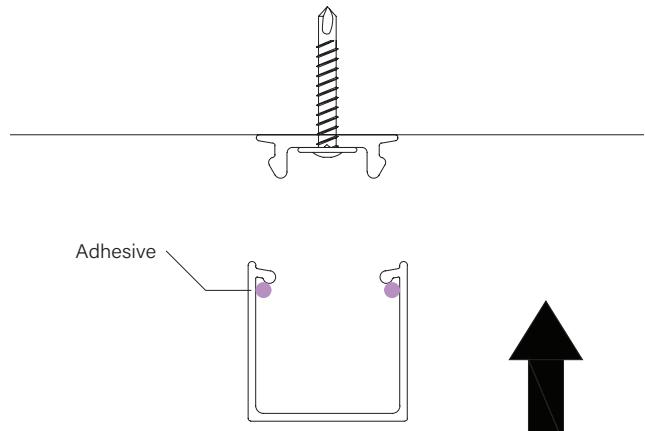
Install additional Two-Piece Batten Covers and fix them as required.

Click the cover over each of the bases, ensuring a tight fit. Although the DecoBatten® product is designed to ensure a secure click fit, if extra security against dislodgement is required, follow the detail provided below.



Adhesive Fix

Prior to installation, apply a bead of adhesive to the internal face of the step in the cover and click it over the base. Ensure that the cover is secured in place until the adhesive sets.



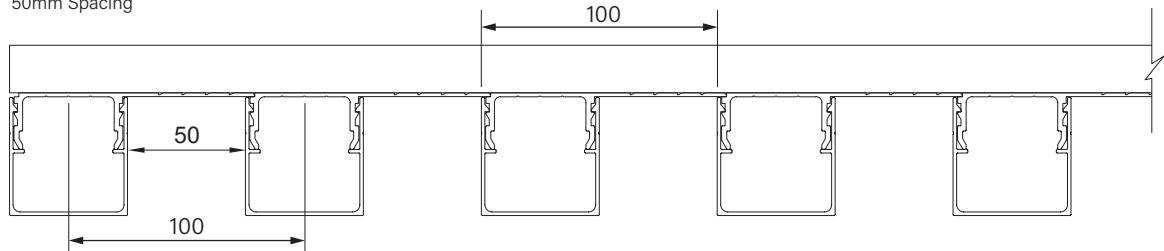


SpaceBase®

SpaceBase® Coverage

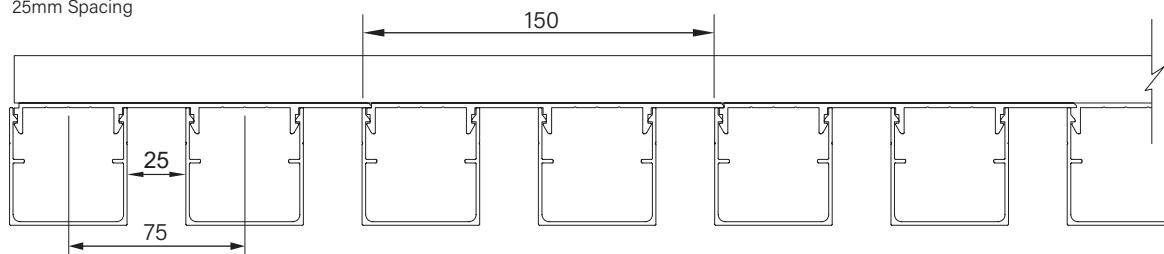
50mm SpaceBase®

50mm Spacing



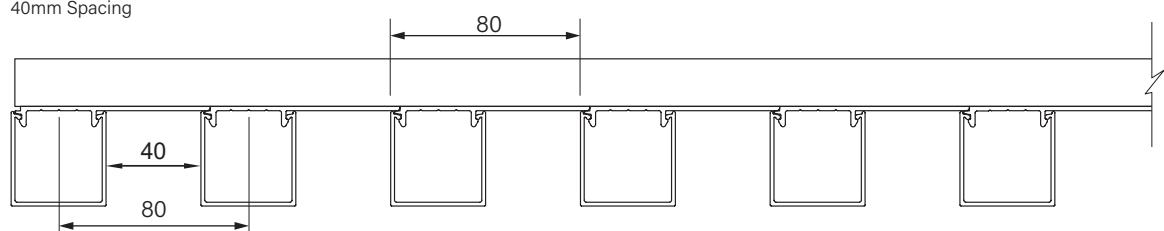
50mm Double SpaceBase®

25mm Spacing



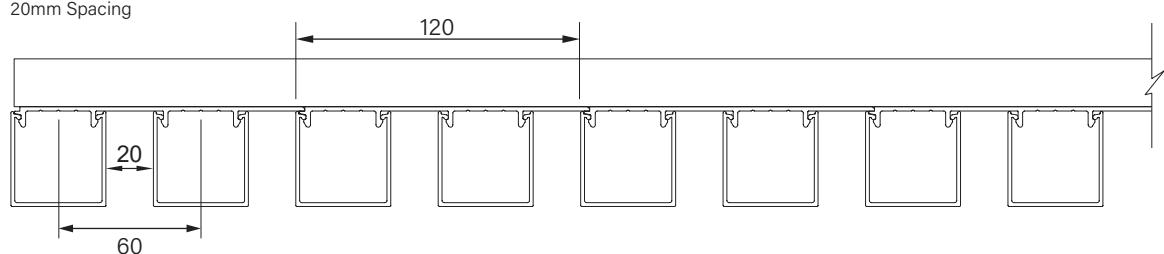
40mm SpaceBase®

40mm Spacing



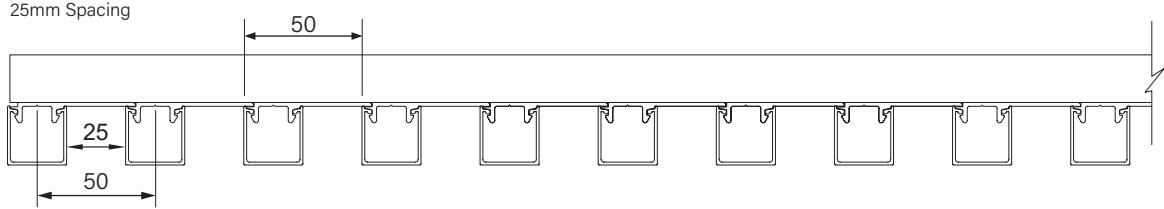
40mm Double SpaceBase®

20mm Spacing



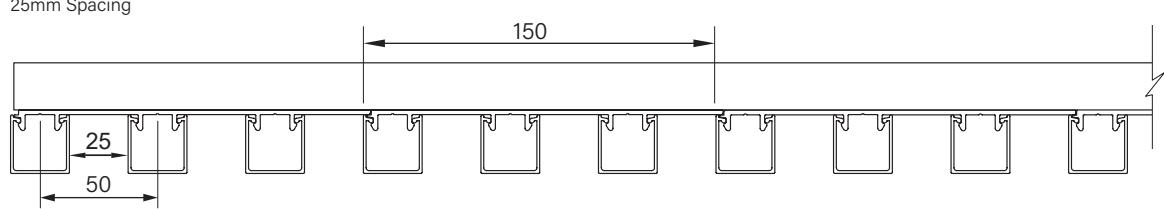
25mm SpaceBase®

25mm Spacing



25mm Triple SpaceBase®

25mm Spacing

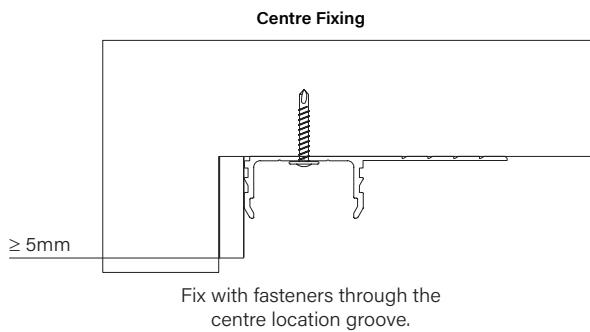
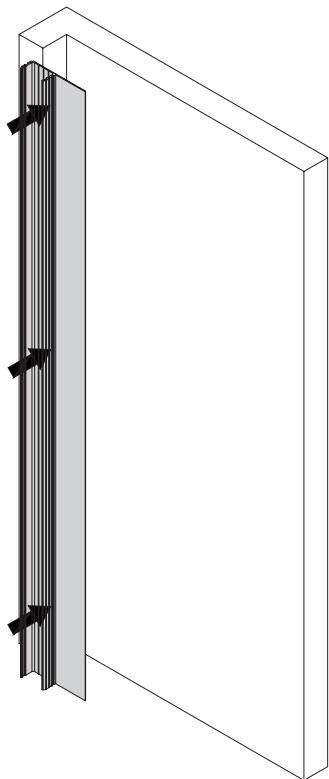


50mm SpaceBase® Installation

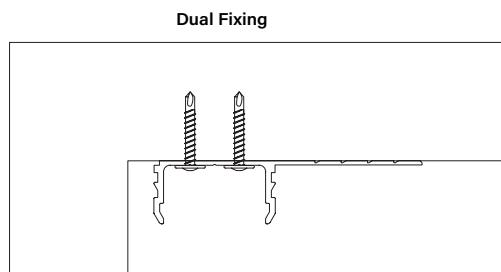
1

Apply the SpaceBase® to the supporting structure and fix it as required.

If the batten is to be installed close to flush to an end surface, ensure at least 5mm of clearance is provided to allow the batten cover to click over the base. To ensure a straight, consistent, and parallel installation, it is strongly recommended to use a level to position each base.



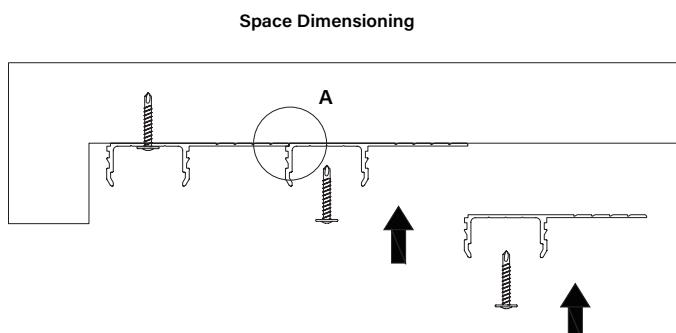
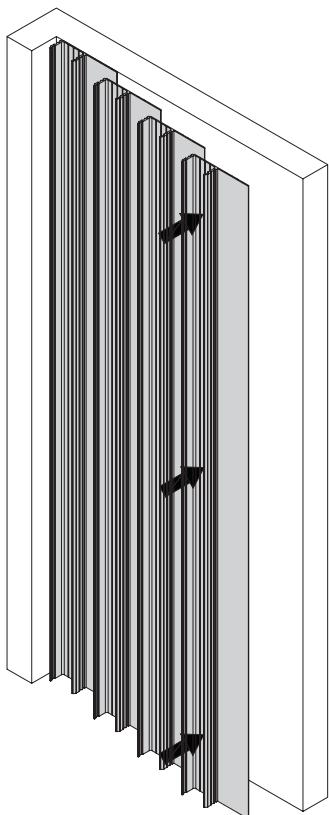
Fix with fasteners through the centre location groove.



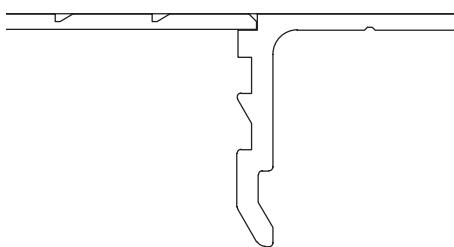
Fix with fasteners at two appropriately spaced locations.

2

Install additional SpaceBase® and fix them as required.



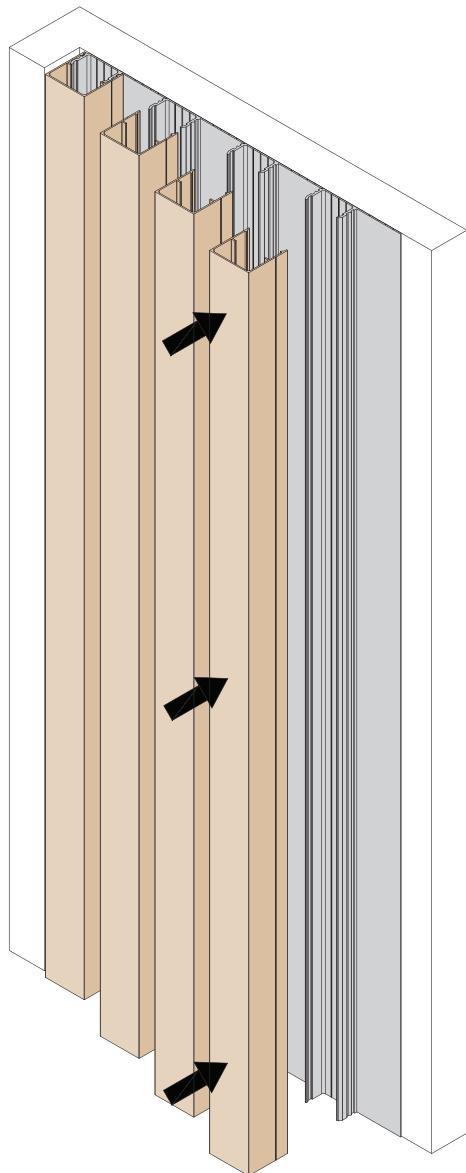
Detail A



3

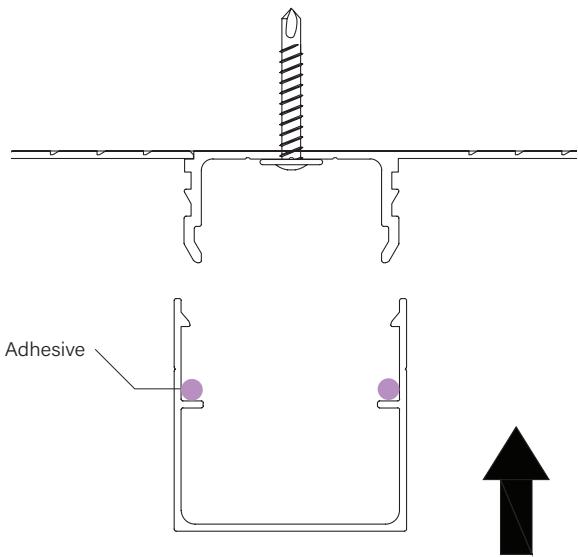
Install additional Two-Piece Batten Covers and fix them as required.

Click the cover over each of the bases, ensuring a tight fit. Even though the DecoBatten® product has been designed to ensure a secure click fit, if extra security against dislodgement is required, follow the detail provided below.



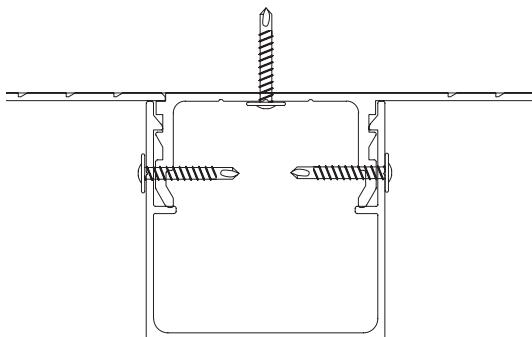
Adhesive Fix

Prior to installation, apply a bead of adhesive to the internal face of the step in the cover and click it over the base. Ensure that the cover is secured in place until the adhesive sets.



Mechanical Fix

Apply screws or rivets as required through the cover and into the base.

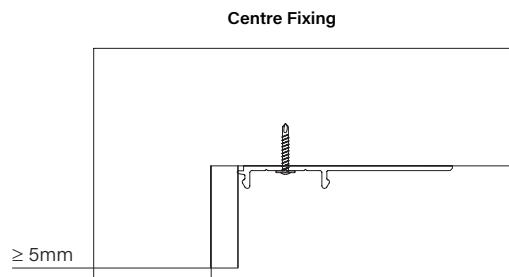
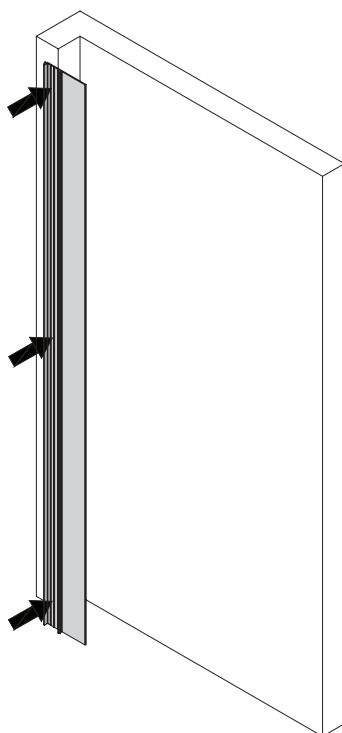


40mm SpaceBase® Installation

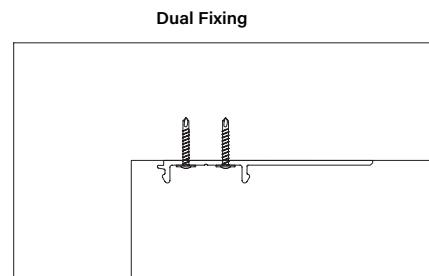
1

Apply the SpaceBase® to the supporting structure and fix it as required.

If the batten is to be installed close to flush to an end surface, ensure at least 5mm of clearance is provided to allow the batten cover to click over the base. To ensure a straight, consistent, and parallel installation, it is strongly recommended to use a level to position each base.



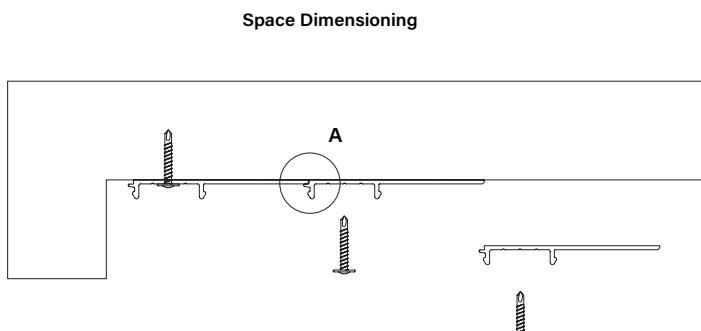
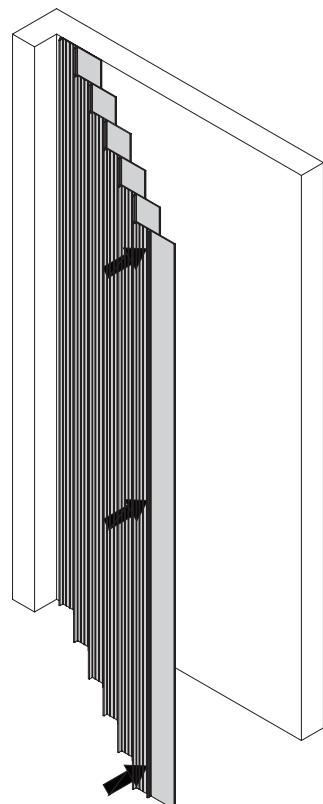
Fix with fasteners through the centre location groove.



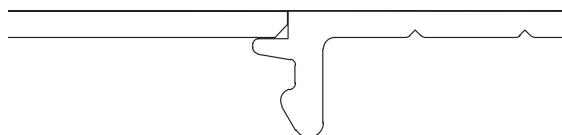
Fix with fasteners at two appropriately spaced locations.

2

Install additional SpaceBase® and fix them as required.



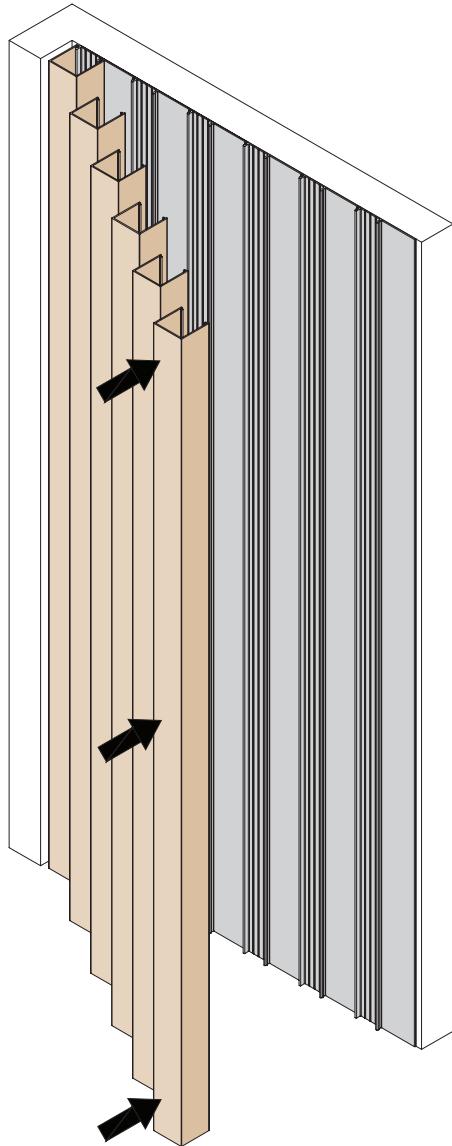
Detail A



3

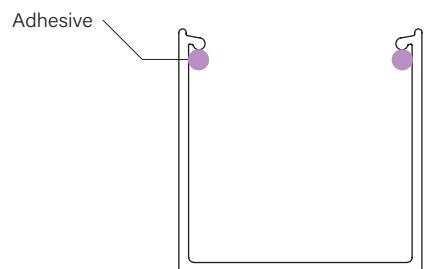
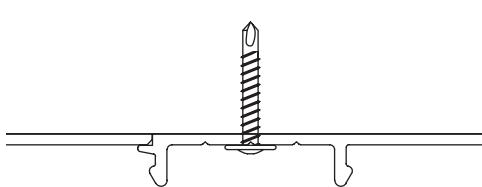
Install additional Two-Piece Batten Covers and fix them as required.

Click the cover over each of the bases, ensuring a tight fit. Although the DecoBatten® product is designed to ensure a secure click fit, if extra security against dislodgement is required, follow the details provided below.



Adhesive Fix

Prior to installation, apply a bead of adhesive to the internal face of the step in the cover and click it over the base. Ensure that the cover is secured in place until the adhesive sets.

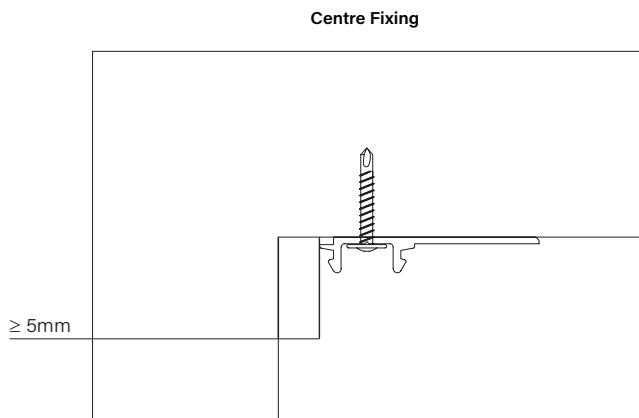
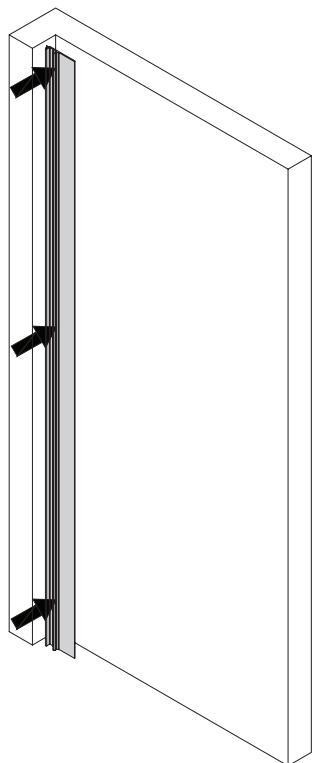


25mm SpaceBase® Installation

1

Apply the SpaceBase® to the supporting structure and fix it as required.

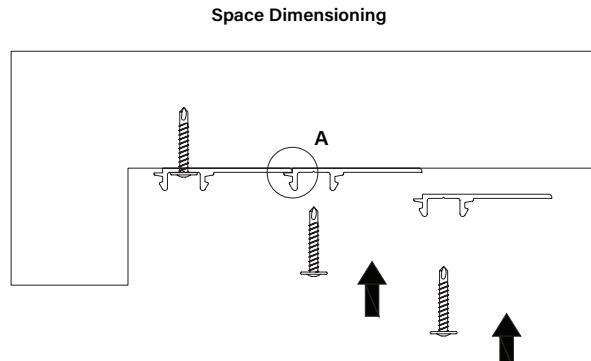
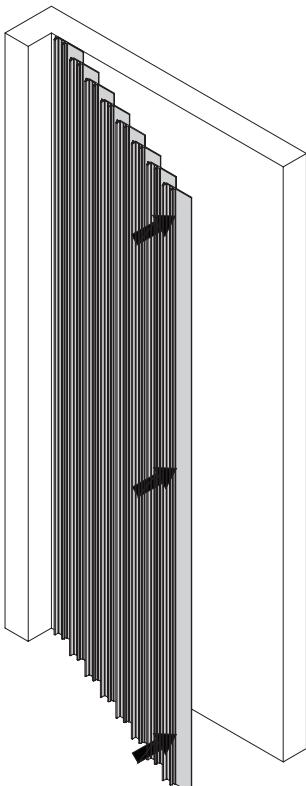
If the batten is to be installed close to flush to an end surface, ensure at least 5mm of clearance is provided to allow the batten cover to click over the base. To ensure a straight, consistent, and parallel installation, it is strongly recommended to use a level to position each base.



Fix with fasteners through the centre location groove.

2

Install additional SpaceBase® and fix them as required.

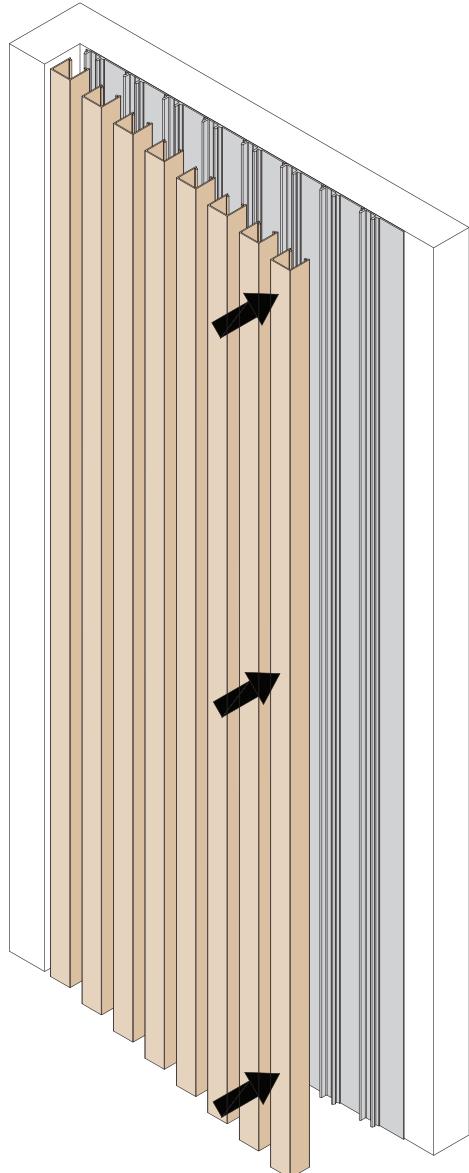


Detail A

3

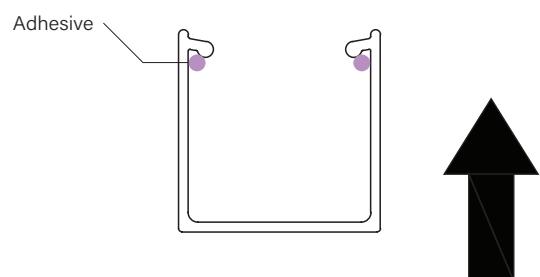
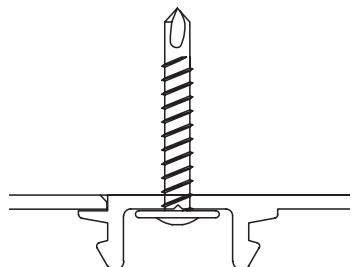
Install additional Two-Piece Batten Covers and fix them as required.

Click the cover over each of the bases, ensuring a tight fit. Although the DecoBatten® product is designed to ensure a secure click fit, if extra security against dislodgement is required, follow the details provided below.



Adhesive Fix

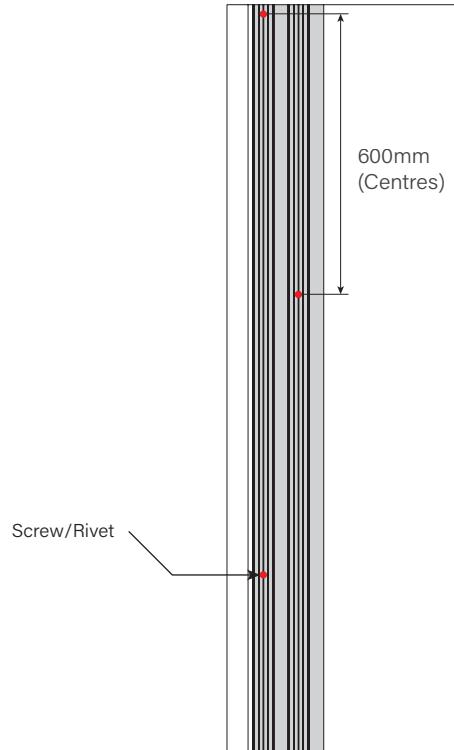
Prior to installation, apply a bead of adhesive to the internal face of the step in the cover and click it over the base. Ensure that the cover is secured in place until the adhesive sets.



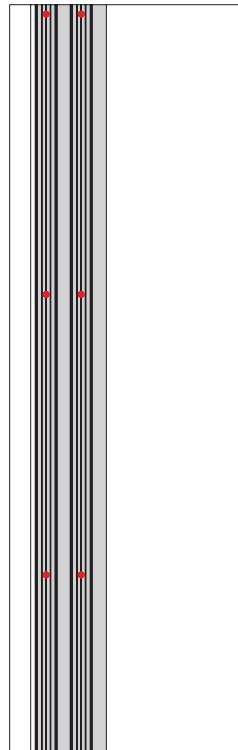
Double & Triple SpaceBase®

Double SpaceBase®

Typically, we advise alternating left and right when screwing the double space base with 600mm spacing. However, in harsher environments, a consistent and uniform fixing approach is recommended. **NOTE:** The red dot indicates the location for screw or rivet placement.



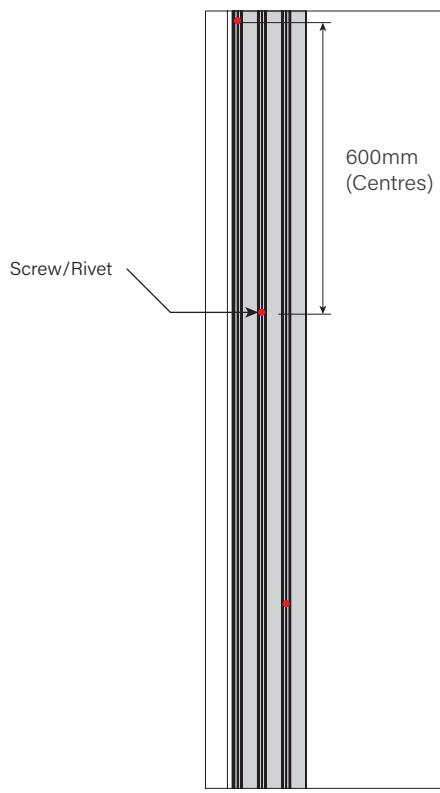
Alternating Fixing



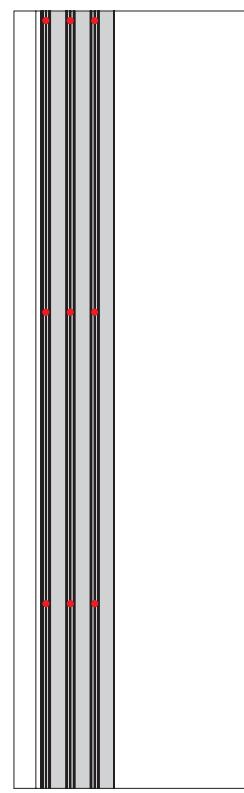
Uniform Fixing

Triple SpaceBase®

Typically, we advise changing the base for each screw with 600mm spacing. However, in harsher environments, a consistent and uniform fixing approach is recommended. **NOTE:** The red dot indicates the location for screw or rivet placement.



Alternating Fixing

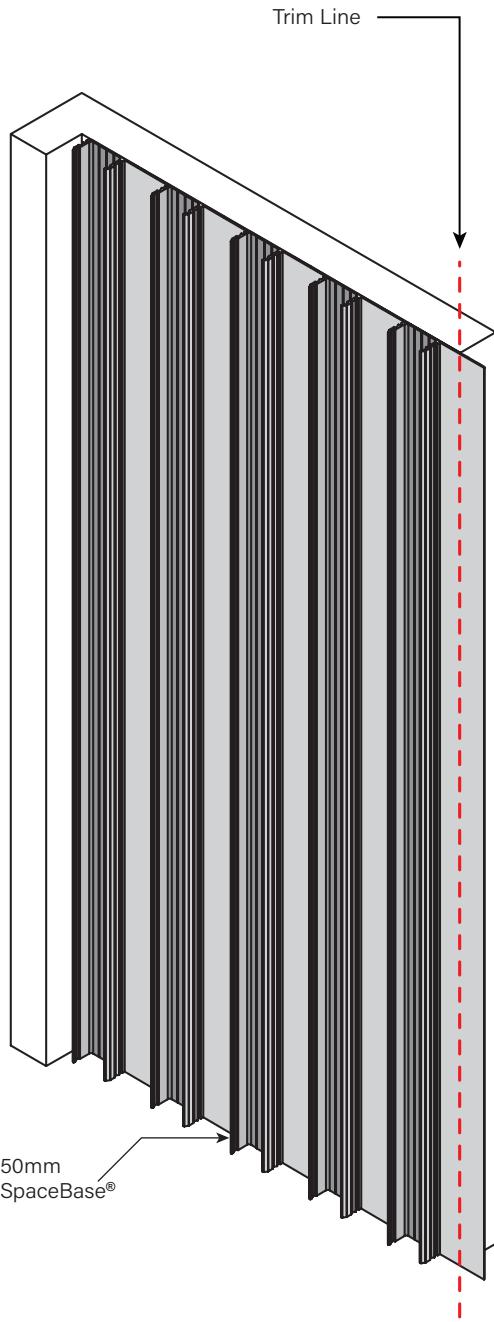


Uniform Fixing

SpaceBase® Details

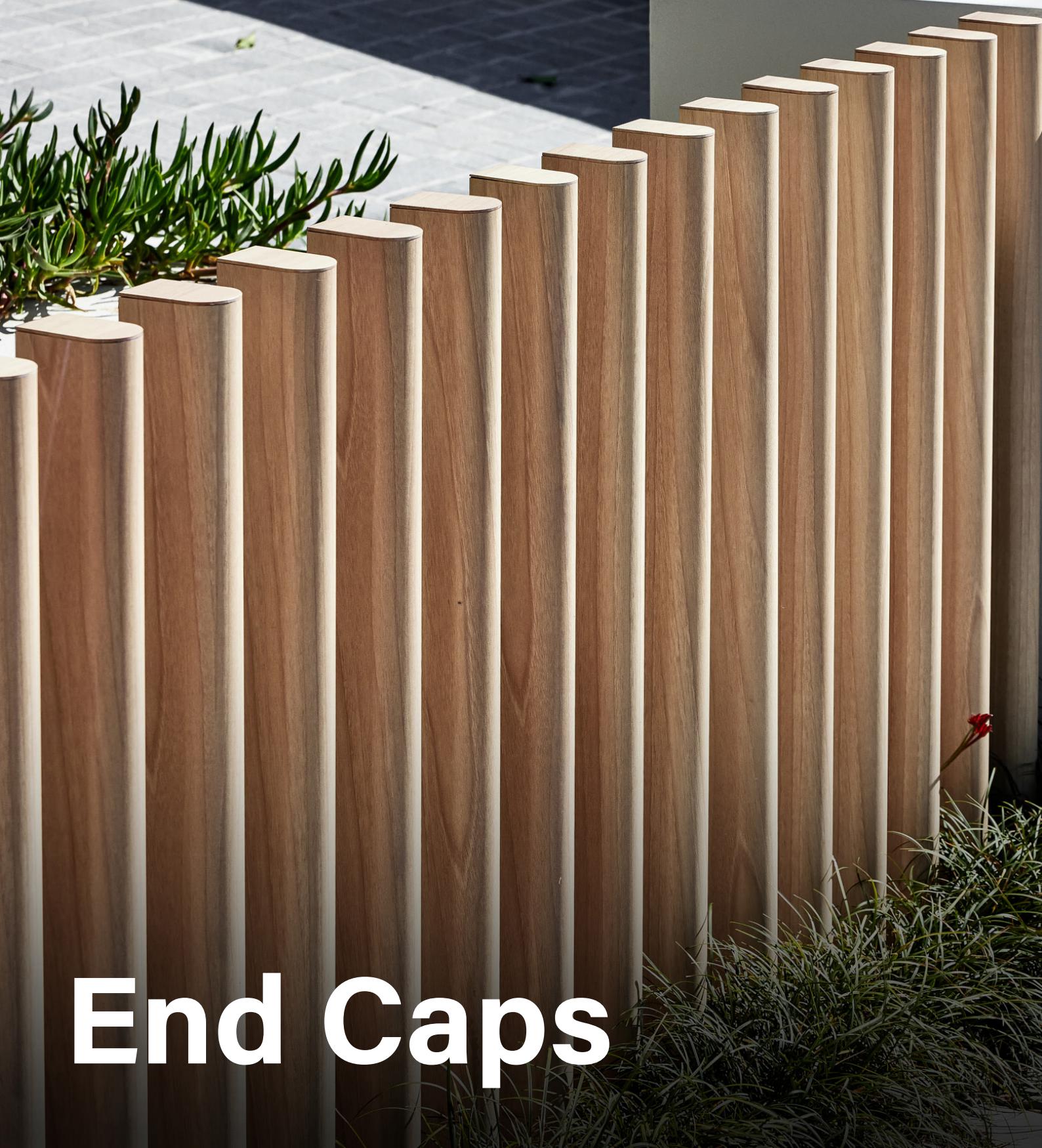
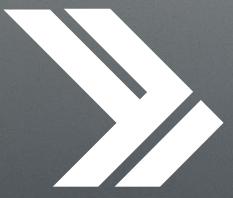
Ripping SpaceBase®

To adjust the length of your SpaceBase®, measure where you want them to end and then use a table saw with a metal cutting blade to make a rip cut at that point.



Overhanging SpaceBase®

SpaceBase® Post Ripping



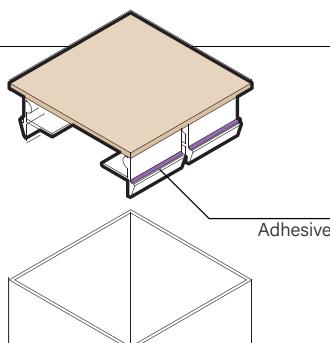
End Caps

End Cap Installation

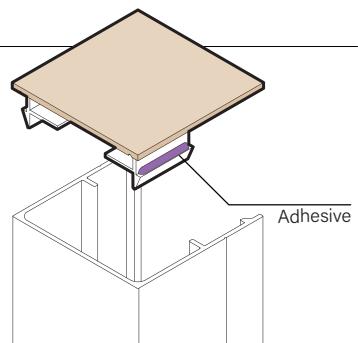
Adhesive Secure

Apply high-quality adhesive to each of the legs as depicted and insert them into the One-Piece batten. Take care to ensure that no adhesive is applied to the visible surface of the extrusion or End Cap.

Ensure that the End Cap is securely fastened in place until the adhesive sets.



One-Piece End Cap

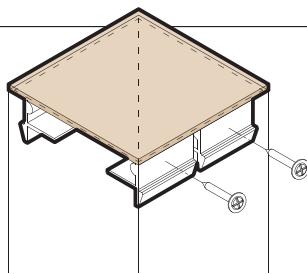


Two-Piece End Cap

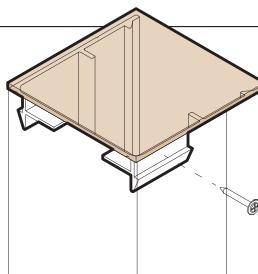
Mechanical Secure

Fix in place with mechanical fixings such as screws or rivets through the outside of the section into one or more of the internal legs.

Deco recommends using stainless steel, galvanised, or aluminium fixings. Colour matched rivets are available to order.



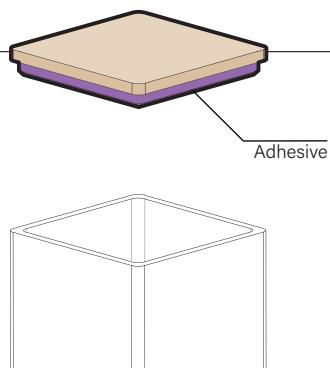
One-Piece End Cap



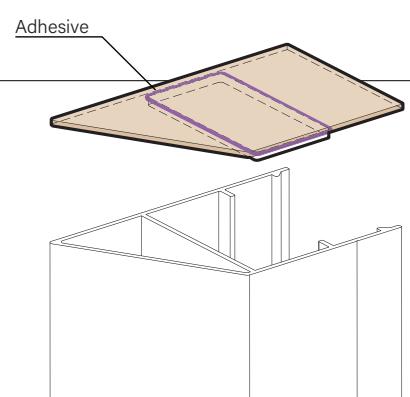
Two-Piece End Cap

Press Fit Aluminium End Caps

For all other profiles, press-fit aluminium end caps are available for both the One-Piece and Two-Piece batten systems. Depending on the profile, the End Cap will be machined to fit snugly into the profile and can be secured using a high quality adhesive.



One-Piece End Cap



Two-Piece End Cap



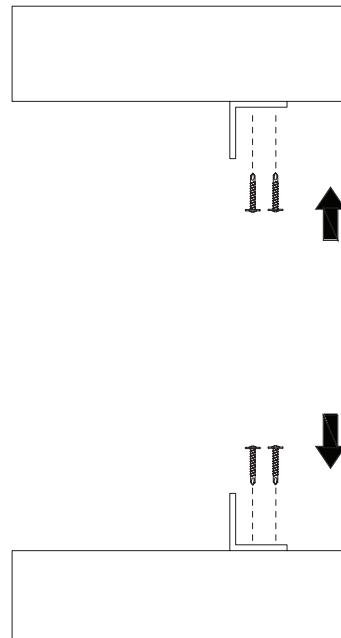
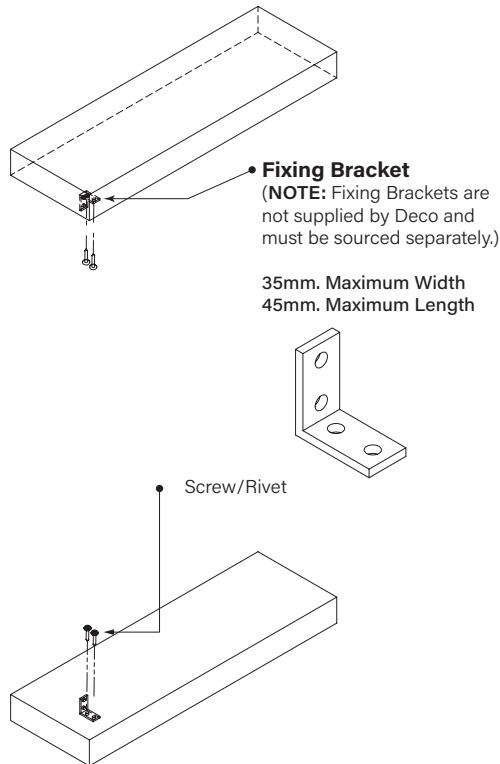
End to End Fixing Options

Two-Piece QuickClick® Batten End to End Concealed Fixing

1

Apply the fixing to the supporting structure and fix as required.

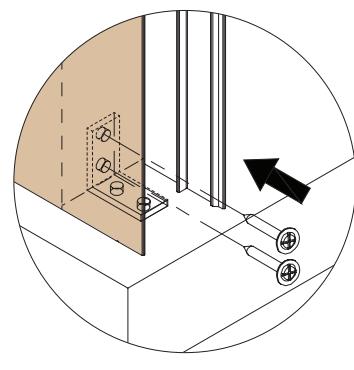
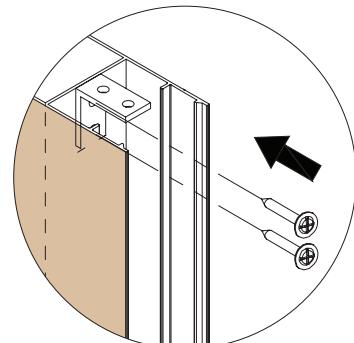
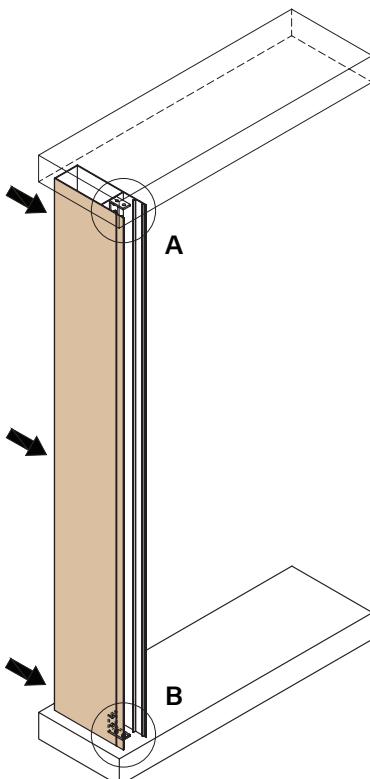
While applying fixings on the top, ensure they align with the bottom fixings.



2

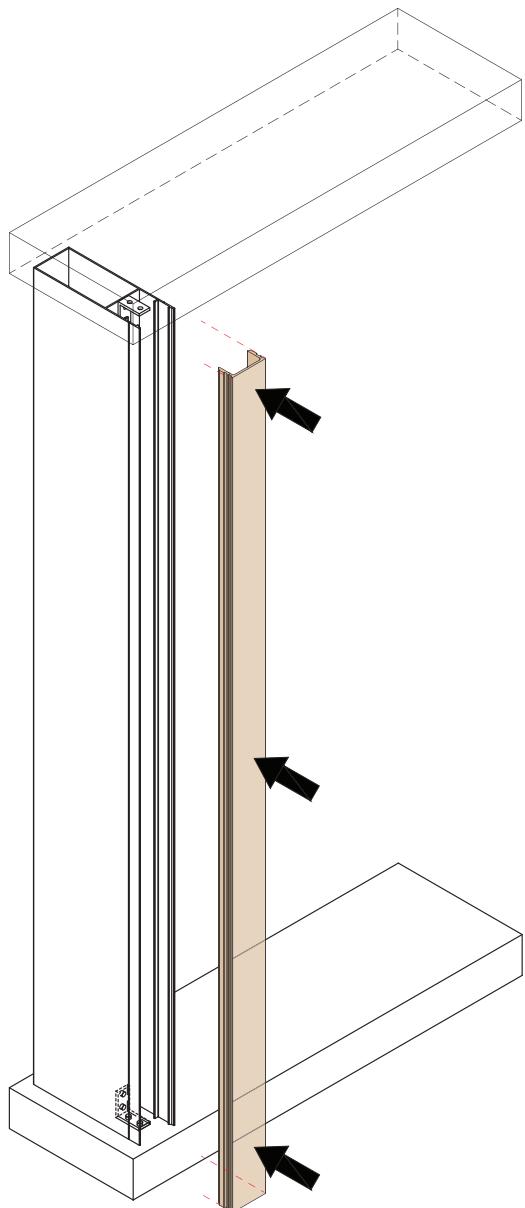
Fix the Batten.

Locate and fix the batten cover to the generic fixing at the top and bottom of the batten (see Details A and B).



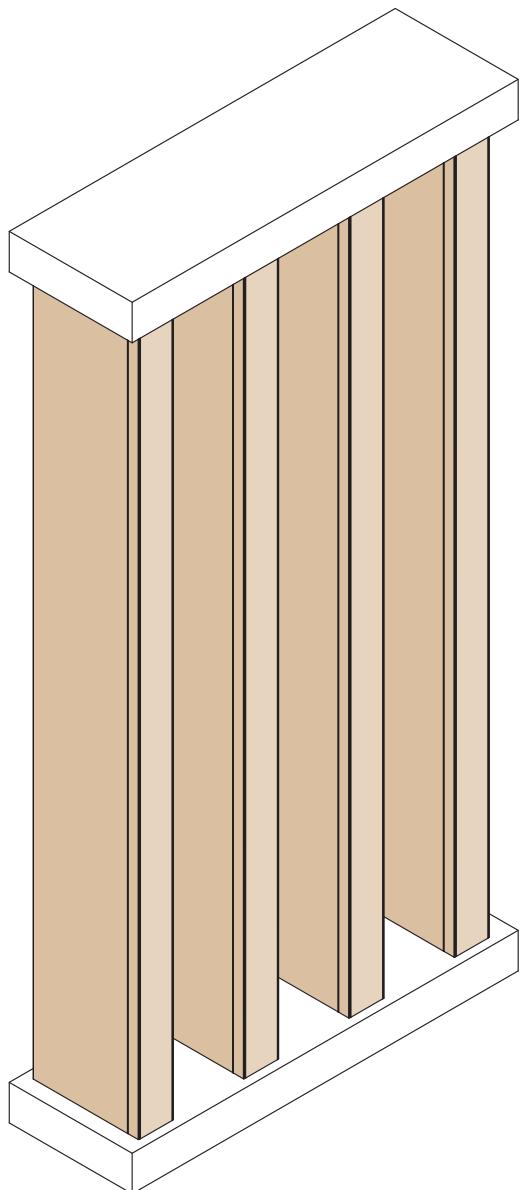
3

Install the Two-Piece Batten Bases.



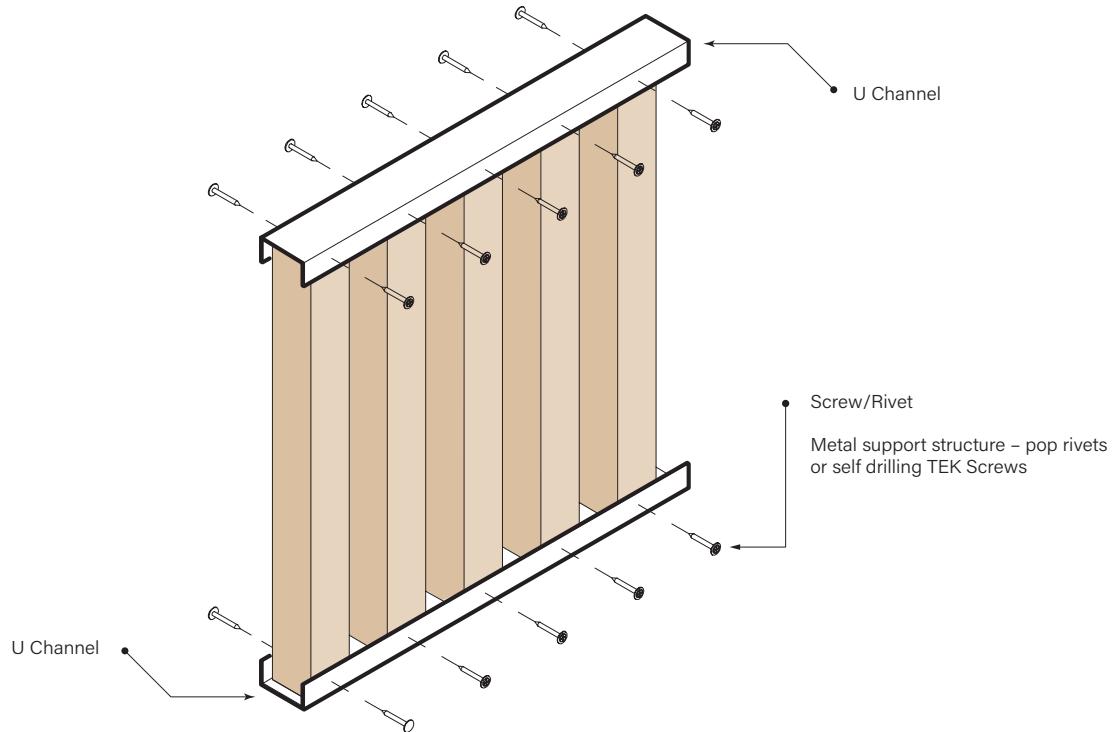
Install additional Two-Piece Battens and fix them as required.

To ensure a straight, consistent, and parallel installation, it is strongly recommended to use a level to position each batten. For a consistent finish, ensure the batten covers are spaced apart evenly during installation. We recommend using a batten or another solid item for even spacing.



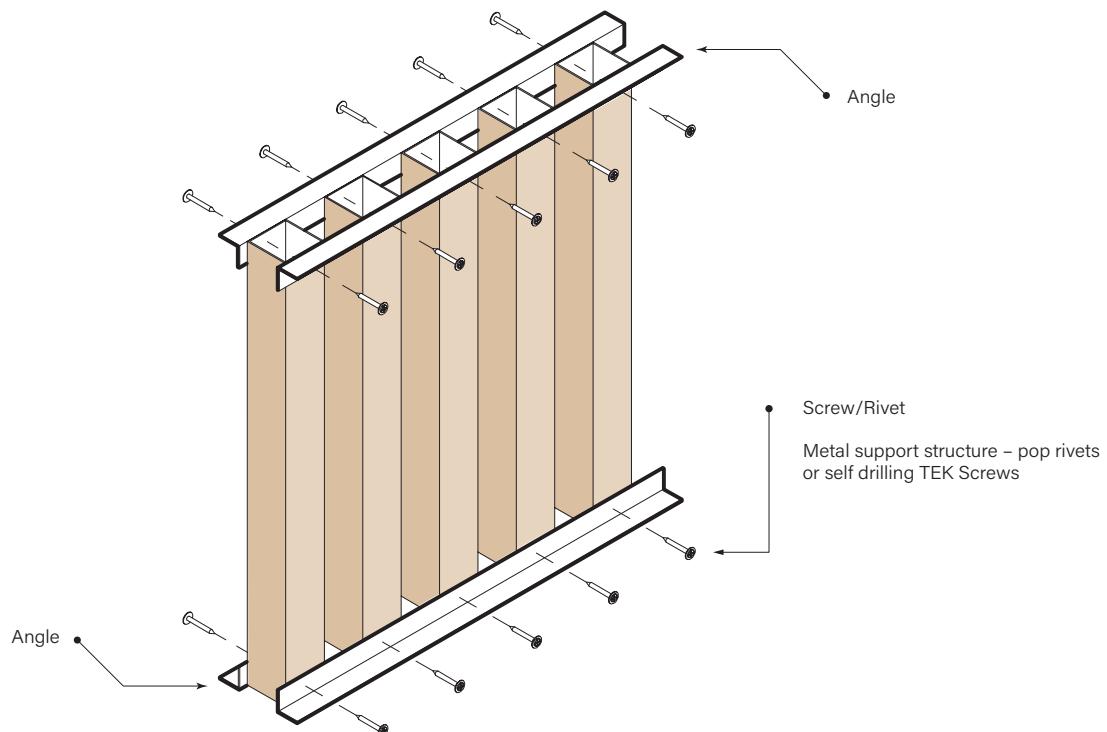
One-Piece Batten End to End Fixing

End-to-End Channel Fixing



End-to-End Angle Fixing

Front Angle may be optional, based on the specific site requirements or construction detail. Check your engineer's specifications.

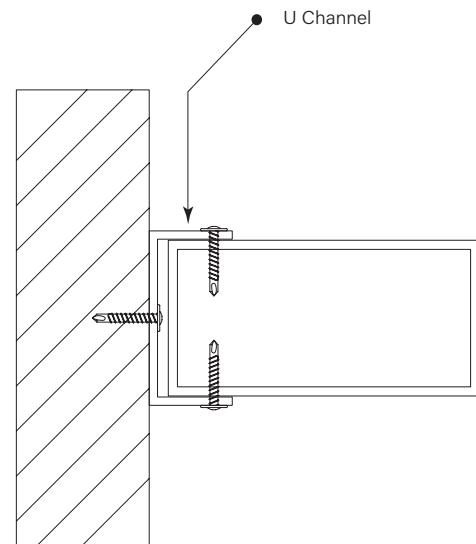
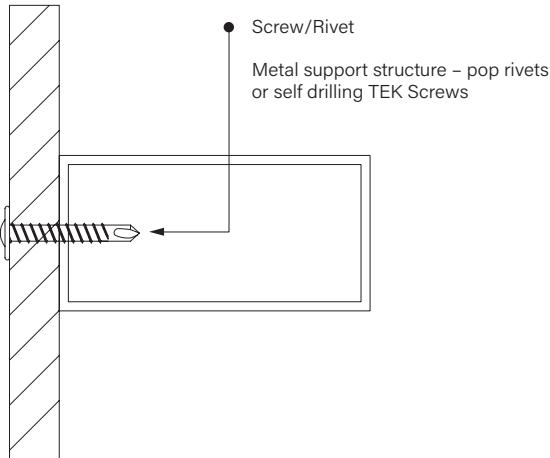




Additional Details

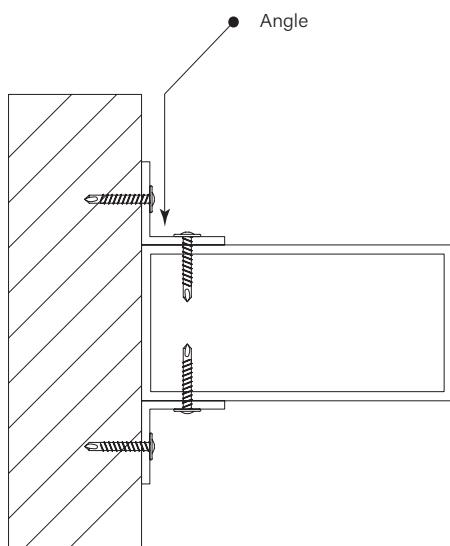
DecoBatten® Details

One-Piece Fixing Methods

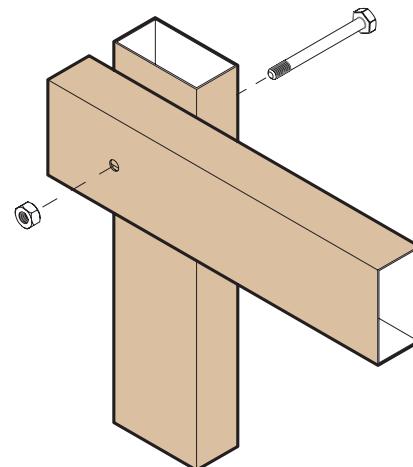


Back Fixing

The simplest method of fixing One-Piece battens is to fix through the back of the support material into the extrusion.



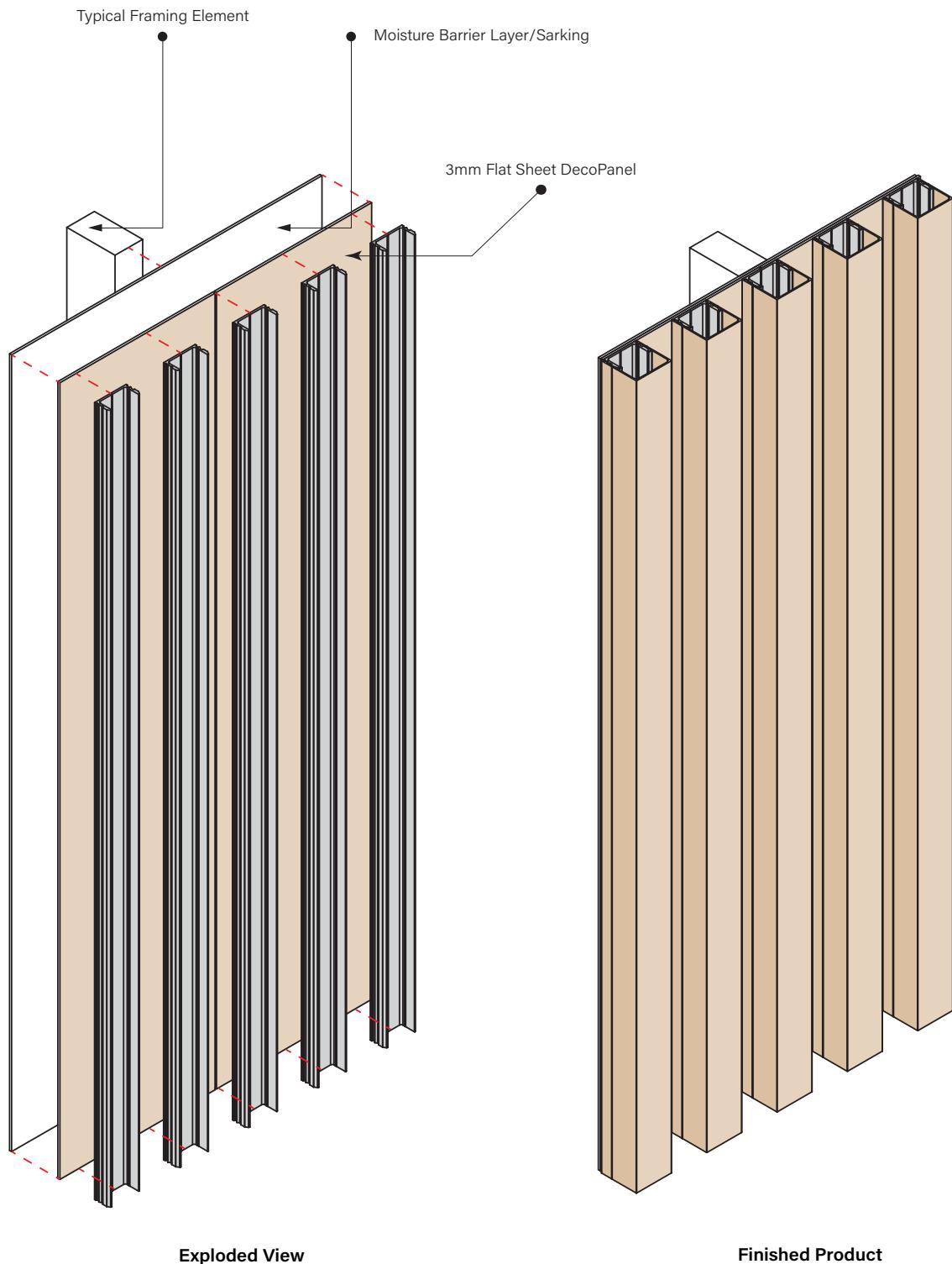
Fixed Surface Angle Fixing



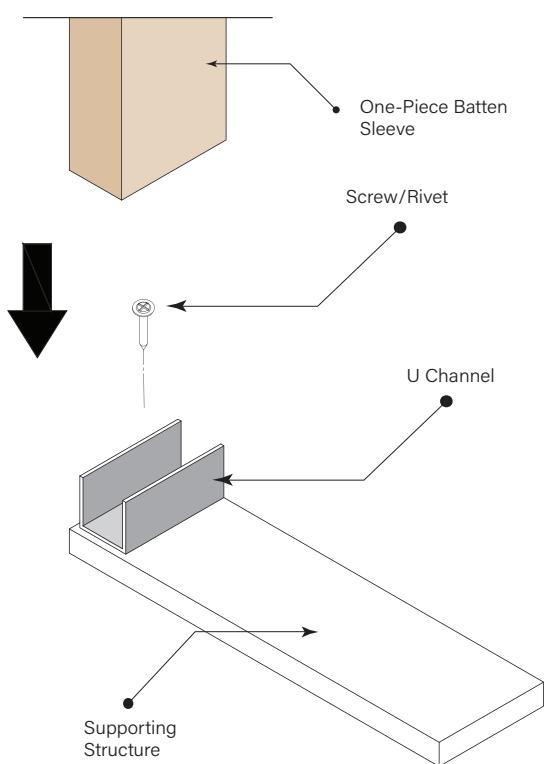
Bolt Fixing

Bolt fixing allows connection of materials at any angle or interval. Bolt fixing also allows on site construction of factory processed materials for a quick assembly and installation. When tightening bolts, ensure that they are not over-tightened as this may cause the extrusion to deform.

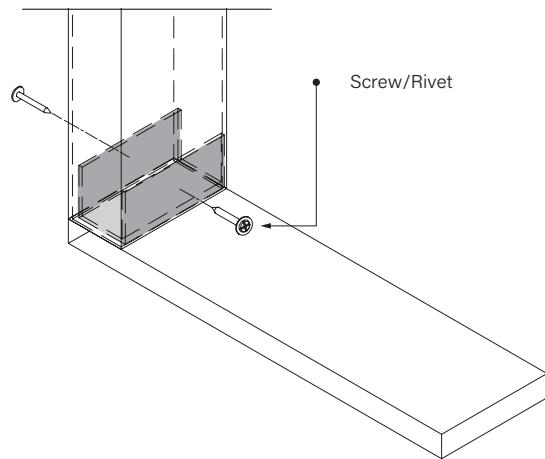
Flat Sheet Install



Channel Fix



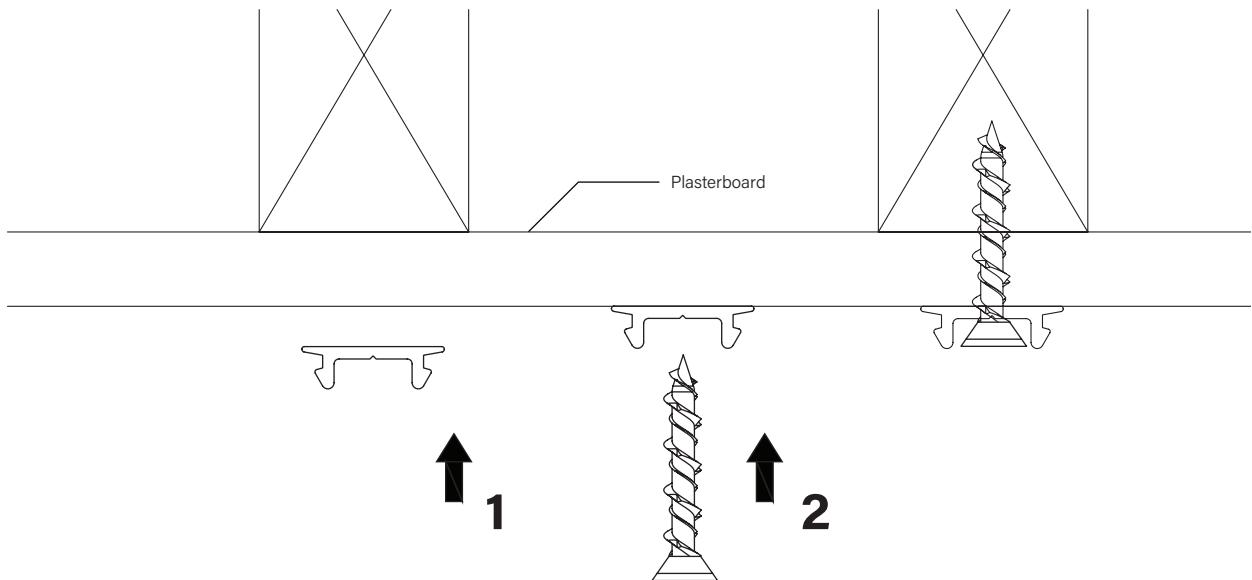
Fix channel on supporting structure, using pop rivets or self drilling TEK screws.



Fix batten on channel by fixing the batten through the adjacent faces of the batten, screwing into the inside channel.

Plasterboard Fixing

Plasterboard screws are strongly recommended while installing 25mm Two-Piece battens onto a plasterboard backing. The countersunk heads of these screws provides a suitable grip to hold the battens in place against the plasterboard. **Please Note:** Contact and discuss with your Deco representative for more information.

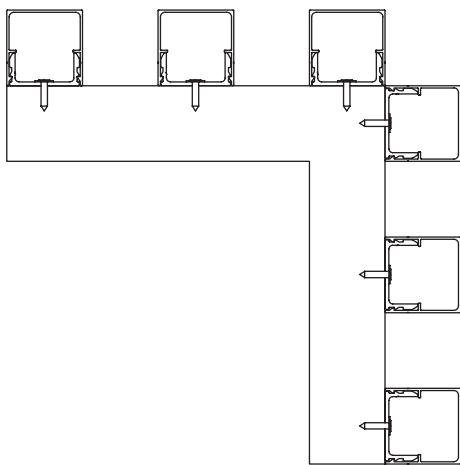


1. Position and pre-drill the base/SpaceBase®

2. Screw fix the base/SpaceBase® with plasterboard screws

External & Internal Corner Details

External Corner

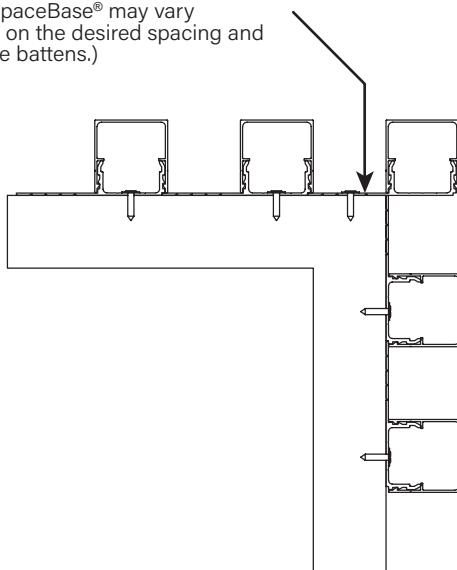


Option 1

Position the batten along the edge of the wall and install it (refer to the diagram above). Use this batten as the base reference for placing and spacing the rest of the battens around this corner.



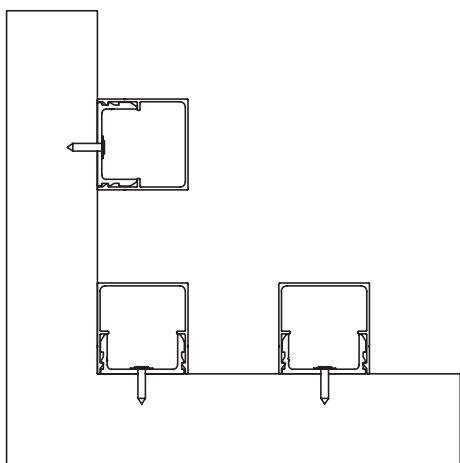
50mm SpaceBase®. (NOTE: The intended SpaceBase® may vary depending on the desired spacing and width of the battens.)



Option 2

Install a SpaceBase® at the edge of the wall, allowing the batten to protrude by its width (see the diagram above). Use SpaceBase® for the remaining battens to ensure a consistent look.

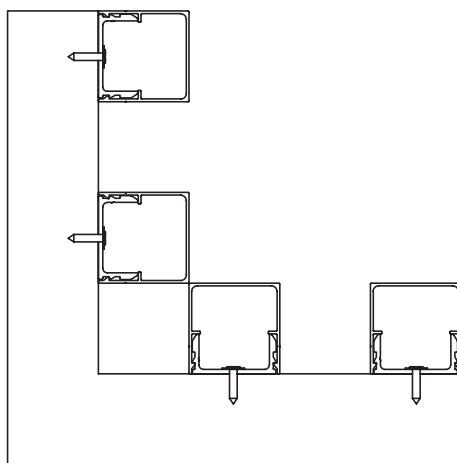
Internal Corner



Option 1

Position the batten along internal corner and install it (refer to the diagram above). Use this batten as the base reference for placing and spacing the rest of the battens around this corner.

NOTE: The spacing between each batten and the internal corner should be adjusted based on the size of the batten. Ensure the spacing is equal and adjust accordingly.



Option 2

Position and install two battens with an equal distance between each batten and the internal corner (as shown in the diagram above). Use these battens as the reference point for placing and spacing the remaining battens around this area.