

Au.diGroove™ data sheet

Product Description

A premium acoustic lining system that offers a host of options both in appearance and performance. Installed in plank form, this product provides an attractive grooved look. Suitable for high performance acoustic applications or purely as a decorative lining.

Product Features

- Best possible combination of acoustics & aesthetics
- Easy install with tongue and groove design
- Wide variety of surface finishes available
- Range of acoustic performance options
- Various profiles for maximum design and acoustic flexibility
- Easy to handle, transport, store and install
- Short acquisition lead times
- Demountable, reusable

Application

Walls and ceilings

Variations

- Extensive range of surface finishes
- Manufactured from standard, moisture resistant or fire rated core.
- Choice of plank lengths
- Wide variety of appearances and acoustic performance combinations

Material Sizes

- Planks are supplied in standard width of 128mm
- Standard lengths only are available and are to be cut on site where required: 2400mm, 2700mm, 3000mm and 3600mm*

**Not all finish / length combinations are available*



Substrates

MDF: Fire Rated / Moisture Resistant /
Blackcore / Blackcore Fire Rated

Fire Rating

For Group Number fire ratings please contact Atkar

Warranty

Au.diGroove is warranted for fifteen (15) years. Refer to Warranty document for terms

Maintenance

Remove marks and dust with a damp cloth and dry thoroughly. A mild cleaning agent can be used for stubborn marks. Do not use abrasive cleaning chemicals or strong solvents. By observing these basic guidelines, Au.diGroove will maintain its premium appearance.

Jointing Options

- Au.diClip tongue and groove connection providing seamless finish
- Various trims available

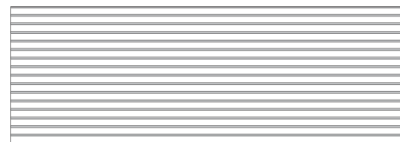
Finish Options

- Inlux Veneer
- Inlux Image
- Inlux Laminate
- Inlux Colour

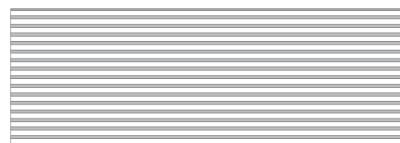
Panel Options

Illustrated below are scaled versions of standard width plank showing the varying visual effects provided by the different product types.

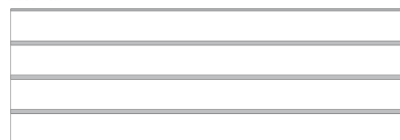
AG10-280



AG11-380



AG36-432



Acoustic Performance

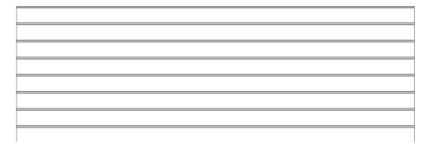
Au.diGroove provides an ideal combination of outstanding acoustic control and visual appeal. Its unique low profile yet efficient design makes it one of the most innovative and effective sound control products available.

NRC Value up to 0.9

Open Area Guide

Code	Open Area (%)
AG10 – 280	7.7
AG11 – 380	11.5
AG18 – 216	7.8
AG19 – 316	11.5
AG20 – 416	15.2
AG36 – 432	7.6

AG18-216



AG19-316



AG20-416



Au.diGroove installation guide

Sorting

On receipt of a delivery, Au.diGroove planks need to be unpacked and allowed to acclimatise for 3-4 days in the installation area prior to installation. All planks should be equally exposed to the ambient conditions during this period. Natural timber faced planks should be then sorted into respective grain and colour batches to minimise the variation inherent to natural timber.

On-Site Machining

Planks can be cut to length on site with standard wood working tools. Angles, curves or service penetrations should be cut with a jig-saw. To avoid splintering or face marking on painted planks, tape up the area to be machined and cut through the tape. Refer to recommended safe working practices before starting any cutting or machining of product.

Important: Adhesive tape should never be applied to planks finished in Inlux Image or Laminate, as this could result in defects to the finish.

Curved Surfaces

Due to their narrow design Au.diGroove planks can be used for curved ceilings or walls with a radius of no less than 10m without any additional machining or effort. Radii less than this are possible through further fabrication of the planks. Consult Atkar technical staff for further information.

Alignment

When cutting planks to size on site, consideration needs to be given to the location of the rear perforations (partly visible inside grooves) so that once installed they align, correctly.

Air Gap

You must leave a minimum 90mm air gap between the panel and wall/ceiling to ensure optimal acoustic performance.

Layout Options

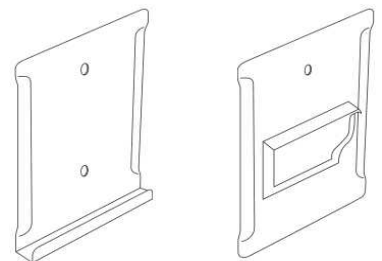
Au.diGroove planks can be installed in either a 'straight' or 'offset' configuration as illustrated to create different aesthetic effects. However the design of the planks allows them to be installed in other configurations if special patterns are required.

A minimum 3mm expressed joint is required on the short edge of the planks when abutting to panels or extrusions to allow for material expansion or contraction.

Joints can be treated using various extrusions - refer to installation guide.

Au.diClip

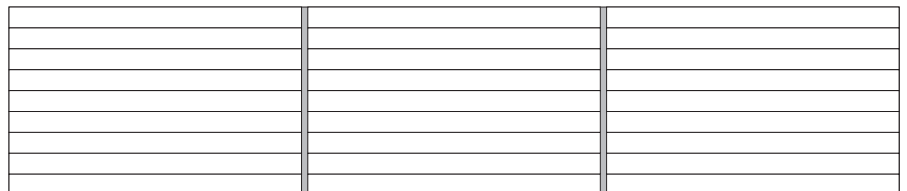
The Au.diGroove Installation system only requires two simple components as shown here. All standard plank deliveries include these fixing components supplied in sufficient quantities to complete the installation.



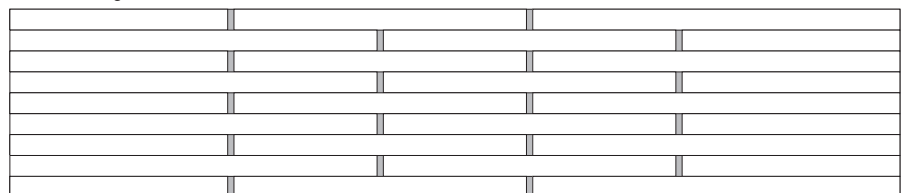
Starter Clip - Direct fixing to timber or metal battens for wall and ceiling installations (first row only)

Mounting Clip - Direct fixing to timber or metal battens for wall and ceiling installations

'Straight' Configuration



'Offset' Configuration



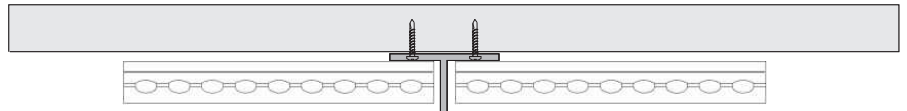
Au.diGroove installation guide

Joint Details

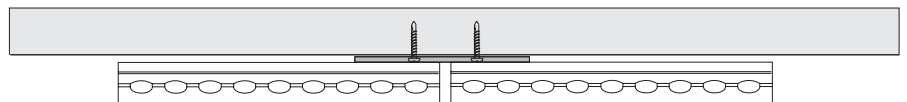
A 'T section' extrusion or a flat backing strip can be utilised to treat straight joints.

A 'T section' extrusion or a flat backing strip can be utilised to treat straight joints.

T Section Joint Detail (Part # ALT20201650A)



Backing Strip Joint Detail (Part # FBBS-70)



Au.diGroove installation guide

Corner Details

Corner joints can be finished using Atkar's proprietary ACM905 aluminium joint extrusion. This section has been custom designed to provide a neat 5 x 5mm corner detail for Au.diGroove. The appropriate cutter can be obtained from Atkar* to machine the Au.diGroove planks to the precise configuration to receive the ACM905 section. Extrusion will slide smoothly into planks if machined correctly and can be glued into place if necessary. The ACM905 extrusion is available from Atkar in 5000mm lengths. Alternatively planks can be simply butted into a timber mould or capped with a right angle cover mould.

*Contact Atkar Technical Staff for details.

Figure 3: ACM905

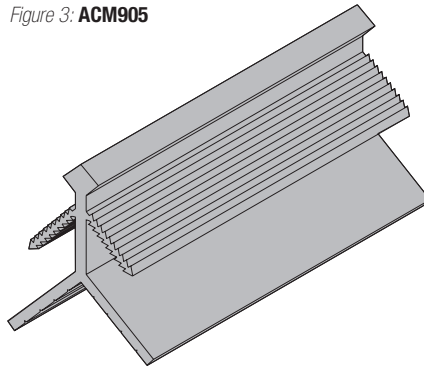


Figure 2: ACM905 Section

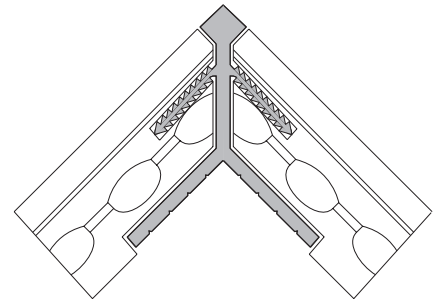
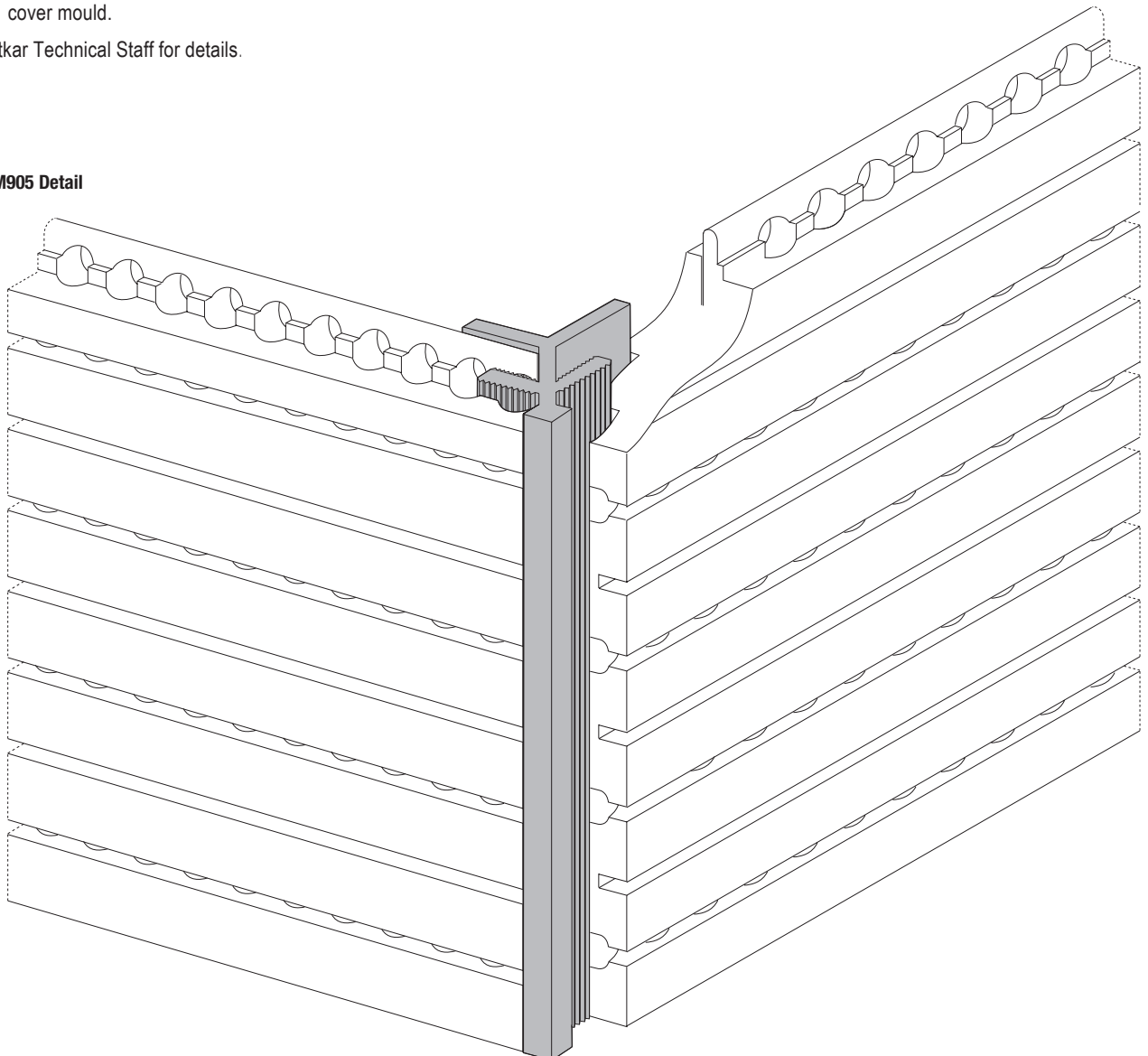


Figure 5: ACM905 Detail



Au.diGroove installation guide

Ceiling Installation – Au.diClip

1. Unpack crate and allow Au.diGroove planks to acclimatise to site conditions for 3-4 days as stated on page 2.
2. Determine starting point and plank configuration bearing in mind joint locations and alignment, and any walls or coffers. It is advisable to set out planks from the longest straight wall available.
3. Set out timber battens or furring channels to run at 90° to the intended Au.diGroove plank direction (see figure 6). These should be installed at no greater than 600mm centres.
4. Determine wall detail method and fix perimeter channel or wall angle onto wall(s) (see figures 7 and 8). Fix Starter Clip onto all battens or furring channels where they abut the wall.
5. Slide first plank onto Starter Clip then slide Mounting Clip into groove on plank and fix in place. Work your way along plank fixing clips to each batten or furring channel until plank is securely fixed in place. A clip is required on every batten.
6. The next plank will slide into tongue and groove joint. Planks should fit precisely together using hand pressure only. If joint does not marry perfectly, check if there is any obstruction in the groove. Fix next clip into groove on leading edge of plank as above and fix in place. Repeat this procedure until desired ceiling area is covered.
7. A minimum 3mm expressed joint is required on the short edge of the planks when abutting to panels or extrusions to allow for material expansion or contraction.

Figure 6: Mounting Detail

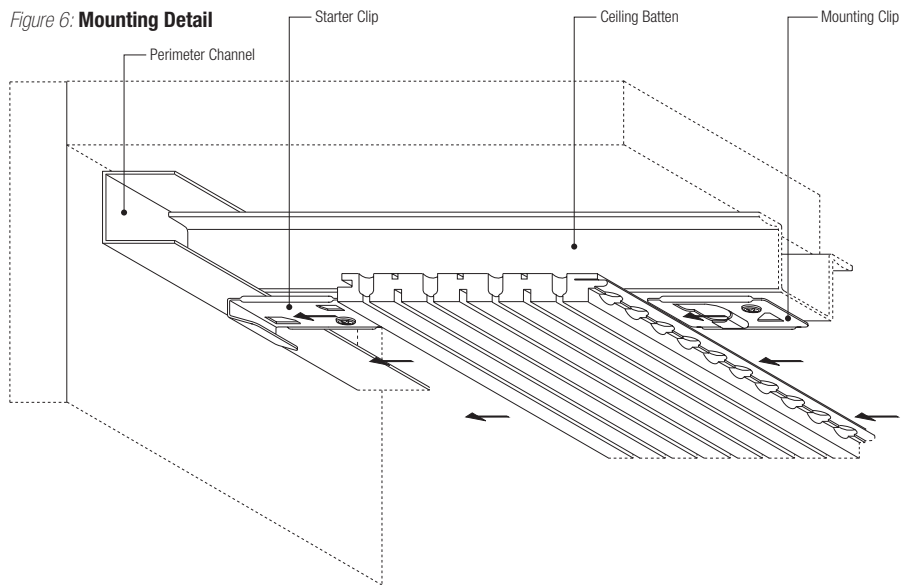


Figure 7: Shadowline Detail

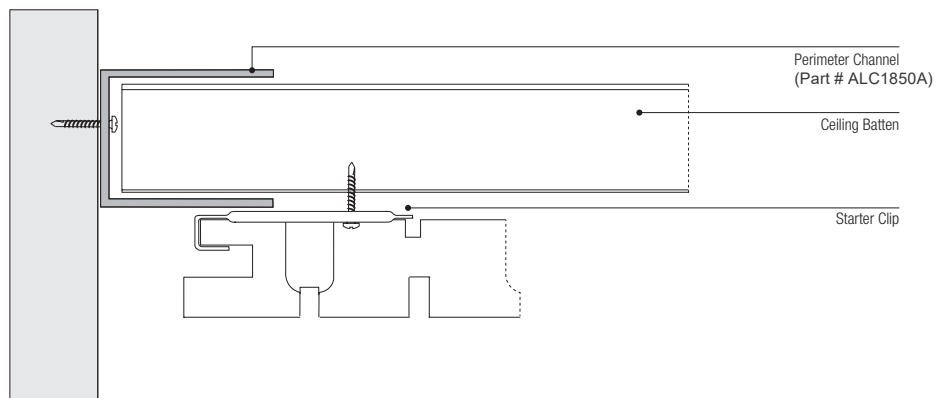
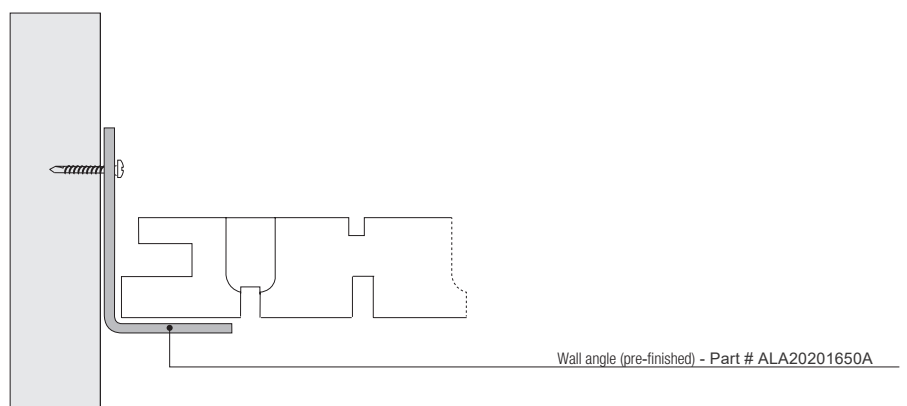


Figure 8: Flush Detail

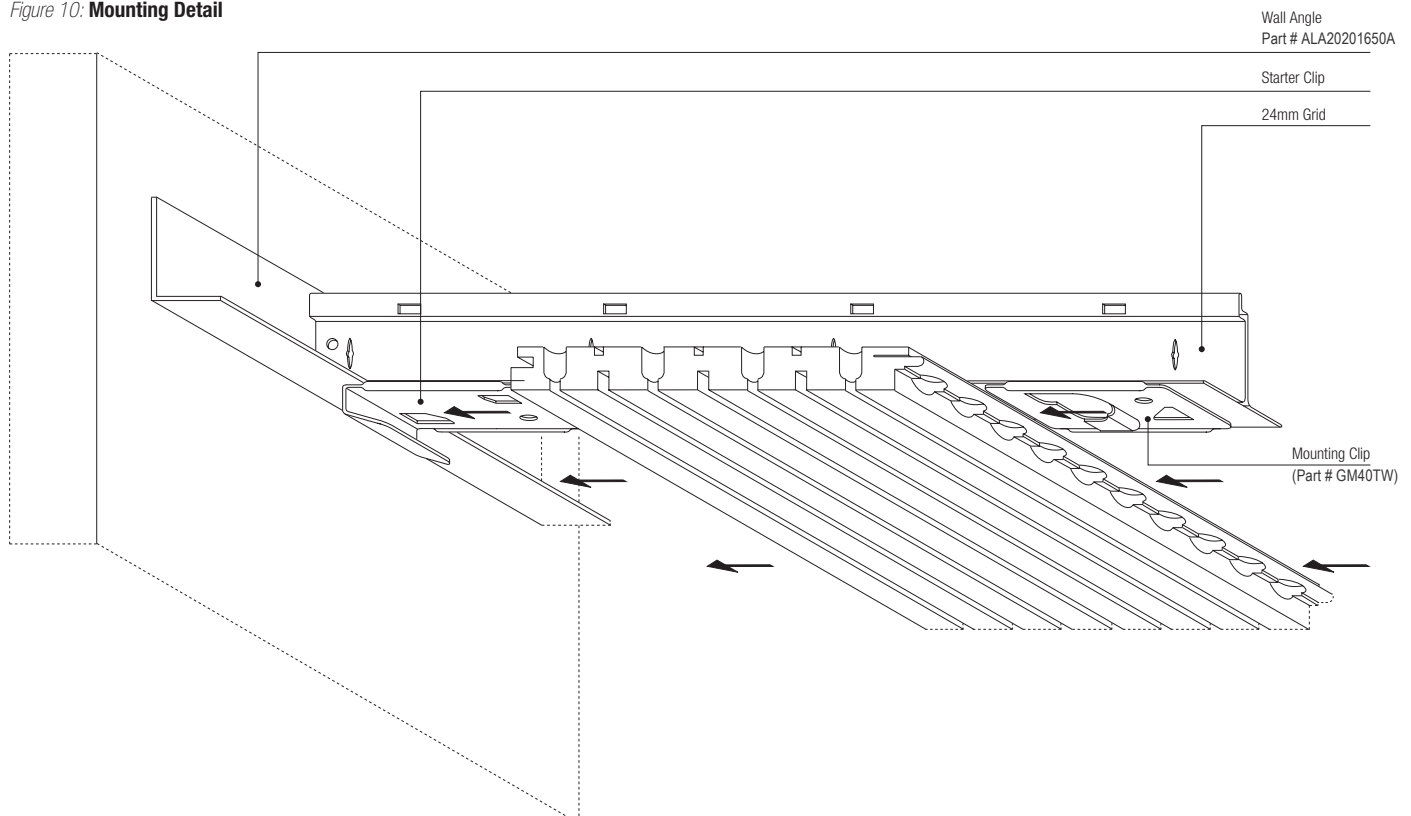


Au.diGroove installation guide

Ceiling Installation – Au.diClip Fix

1. Unpack crate and allow Au.diGroove planks to acclimatise to site conditions for 3-4 days as stated on page 2.
2. Determine starting point and plank configuration bearing in mind joint locations and alignment, and any walls or coffer. It is advisable to set out planks from the longest straight wall available.
3. Install a standard 24mm exposed grid suspension system ensuring it has sufficient weight carrying capacity. Grid should be set out so the main tees run at 90° to the intended Au.diGroove plank direction. (see figure 10). These should be installed at 600mm centres.
4. At main tee and wall angle junction, twist on Starter Clip. A clip should be fitted to every main tee.
5. Slide first plank into starter clips. Twist Mounting Clip onto main tees and slide along into slot on leading edge of plank.
6. The next plank will slide into tongue and groove joint. Planks should fit precisely together using hand pressure only. If joint does not marry perfectly, check if there are any obstructions in the groove.
7. Twist the next Mounting Clip onto t-bar and slide into place as above. Repeat this procedure until desired ceiling area is covered.
8. It is recommended that every second clip be riveted to the main tee.
9. A minimum 3mm expressed joint is required on the short edge of the planks when abutting to panels or extrusions to allow for material expansion or contraction.

Figure 10: Mounting Detail



Au.diGroove installation guide

Wall Installation – Clip Fix

1. Unpack crate and allow Au.diGroove planks to acclimatise to site conditions for 3-4 days as stated on page 2.
2. Determine starting point and plank configuration, bearing in mind joint locations and alignment, and any corners or windows. Fix timber or steel battens to wall structure at maximum 600mm centres.
3. Use spirit level or laser level to establish a level starting line at lowest point of intended installation area.
4. Fit angle to batten to support planks (see figures 12 & 13), then fix Starter Clip onto battens. A clip should be fixed to every batten. Sit first plank onto starter clips.
5. Slide Mounting Clip down into slot on top edge of plank and fix it back to batten. A clip is required on every batten.
6. The next plank will connect over first plank by means of the tongue and groove joints. Planks should fit precisely together using hand pressure only. If joint does not marry perfectly, check if there are any obstructions in the groove. Fix the next Mounting Clip into slot on top edge of planks as above and fix in place. Repeat this procedure until desired wall height is reached.
7. Continue to check the level and straightness of the planks as you work up the wall.
8. A minimum 3mm expressed joint is required on the short edge of the planks when abutting to panels or extrusions to allow for material expansion or contraction.

Figure 11: Mounting Detail

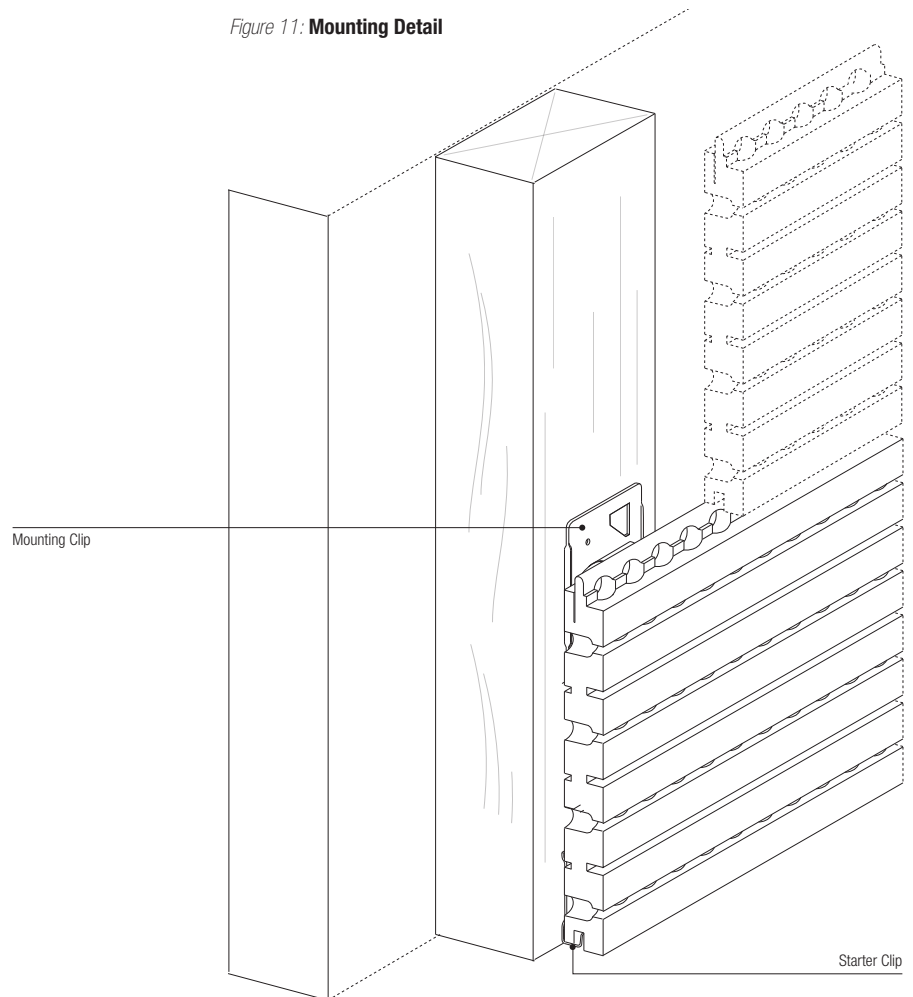


Figure 12:
Angle Detail
Part # ALA20201650A

