Au.diTone Datasheet

atkar acoustics design innovation

Product Description

Au.diTone is a contemporary and stylish alternative acoustic treatment where sound diffraction is preferred to conventional sound absorption. It is suited to special performance and presentation spaces by minimising flutter echoes.

Features and Benefits

- Allows to build an environment that supports speeches with superior coverage and high speech intelligibility
- Quick and easy to install with the Au.diClip system
- Wide range of colour finishes
- Moisture resistant option available.

Applications

Walls and Ceilings of auditoriums, conference rooms, music rooms and all critical listening environments.

Warranty & Maintenance

Au.diTone is backed by a 15 year warranty. Refer to Atkar warranty and maintenance documents for terms.

Fire Rating

Please consult Atkar to discuss the reaction to fire requirements of your project.

Substrates

- MDF standard
- MDF Moisture Resistant
- Solid Timber (soft wood).

Finish Options

Au.diTone can be finished with the wide range of **Inluxe Finishes** or with Inluxe Clear.

atkar.com.au/architectural/3d-visualiser

Material Sizes

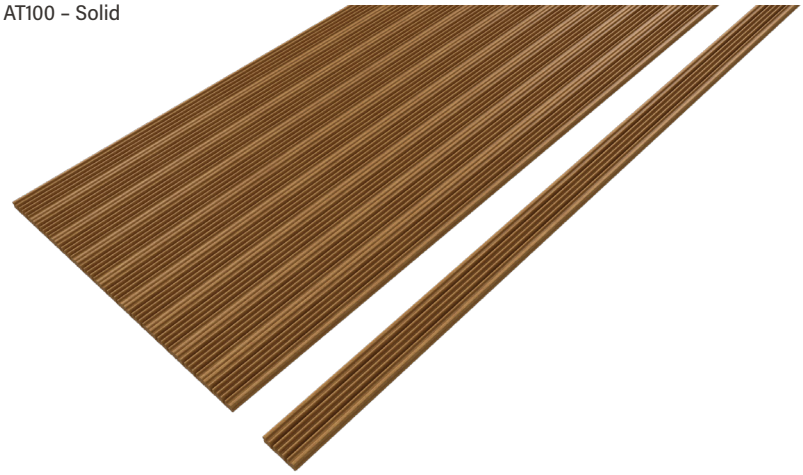
Planks are supplied in standard sizes:

- 102mm Width
- 25mm Thickness

Length can be customised up to 3600mm.

Face Profile

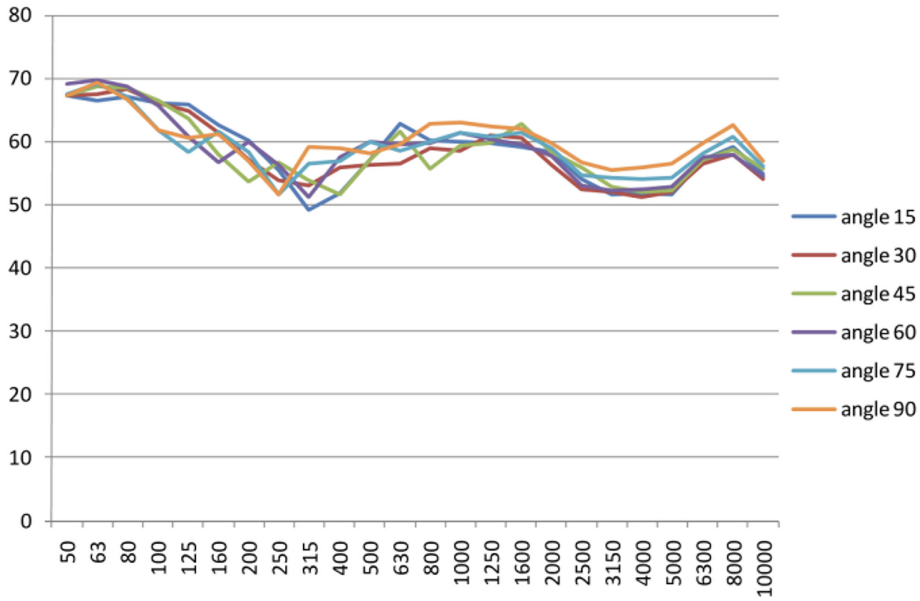
AT100 – Solid



For the full range of colour options go to:
atkar.com.au/product/au-ditone/

Acoustic Performance

Au.diTone achieves a more diffused sound field, which is critically important in any music performance.
For specific results, refer to our acoustic test.



Panel margins and Joints

Tongue and groove connection (with Au.diClip) between planks on long edge.

Design Assistance

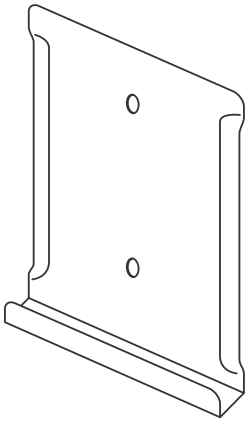
Atkar can support you with Shop Drawings and CAD modelling.
Chat to Atkar to discuss your project specifications.

Fixing Guide

Au.diTone is installed with the Direct Fixing method or with the two Au.diClip system.

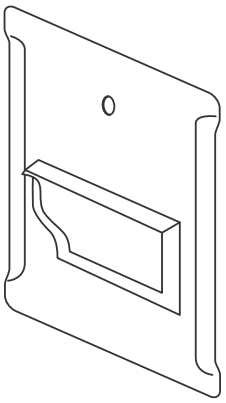
Starter Clip

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.



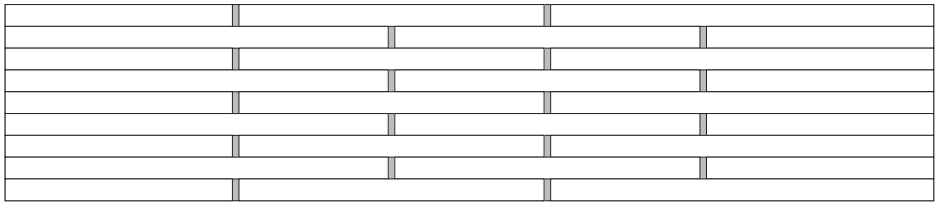
Planks Layout

Au.diTone can be installed in either a “straight” or “offset” configuration.
Other configurations can be achieved with special patterns.

Consult Atkar for more information.

‘Straight’ Configuration

‘Offset” Configuration



Onsite Machining

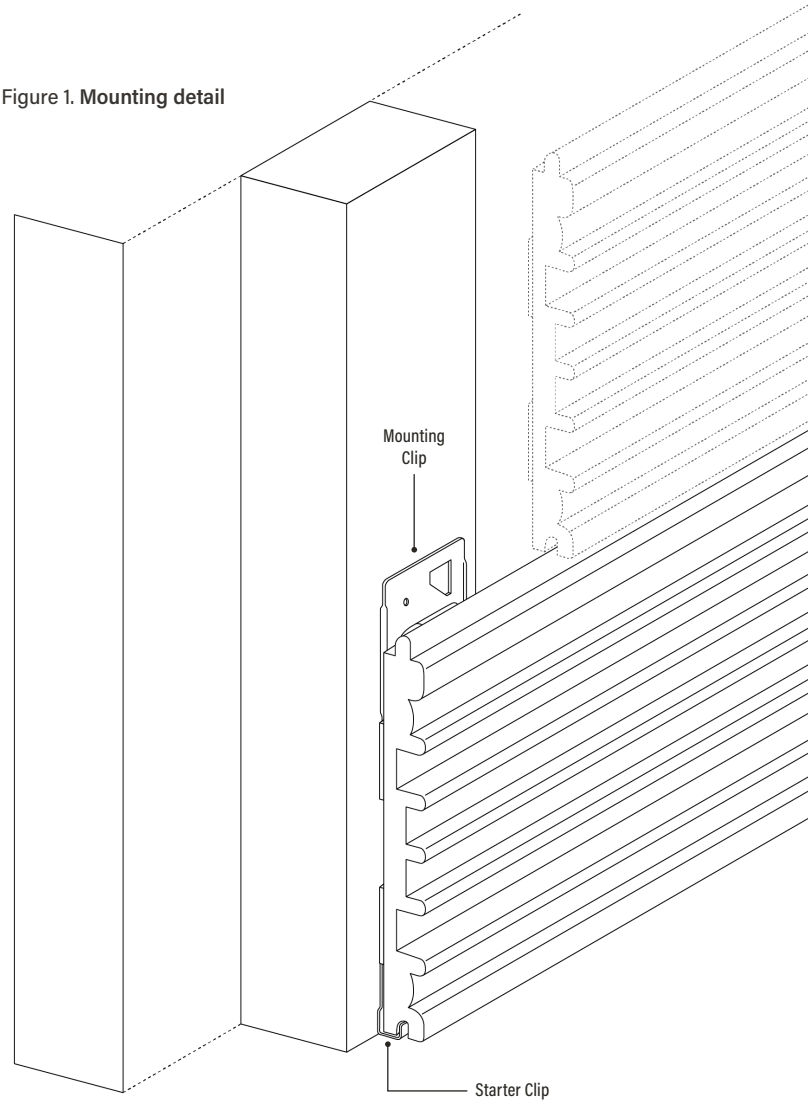
Planks can be cut to length on-site with standard wood working tools.
Use a jigsaw to cut angles, curves or service penetrations.

Installation Procedure – Wall

1. Determine starting point and plank configuration bearing in mind joint locations and alignment as well as any corners or windows.
2. Fix timber or steel battens to wall structure at maximum 600mm centres. Use spirit or laser level to establish a starting line at lowest point of intended installation area.
3. Expansion joints must be used at the perimeter.
   - 3.1 Where an abutting wall is located, if there aren't fixing points for the Starter Clips, then install a Wall Angle profile onto batten to support planks (Fig.2).
4. Fix Starter Clip onto battens with appropriate screws ensuring that one Clip is mounted on every batten. Then sit first plank on Starter Clip.
5. Slide Mounting Clip into slot on top edge of the plank. Then fix it to batten. A Mounting Clip is required for every batten (Fig. 3).
6. Connect next plank sliding the slot into the tongue of the adjacent plank previously installed. Planks should accurately fit together using hand pressure only. If joint does not couple perfectly, check, and remove any obstruction in the groove.
7. Repeat Steps 5-6 until desired wall area is covered, checking level and straightness of plans as wall is built up.
8. Use a Starter Clip (not a Mounting Clip) on the top edge, where wall meets a ceiling.

Note: a minimum 3mm expressed joint is required on the short edge of the plank when abutting to panels or extrusion to allow for natural material expansion/contraction.

Figure 1. **Mounting detail**



Installation Procedure – Ceiling

Determine starting point and plank configuration bearing in mind joint locations and alignment as well as any walls or coffers. It is recommended to set out planks from the longest straight wall available.

Follow the steps below to install the planks in a Furring Channels or Timber Battens configuration.

1. Set out furring channels or timber battens to run perpendicular (900) to plank direction (Figure 1). Maximum frame centre must be 600mm.
2. Determine wall detail method (Shadowline or Flush) and fix perimeter channel or wall angle to wall accordingly.
3. Expansion joints must be used at the perimeter.

Figure 2. **Shadowline Detail**

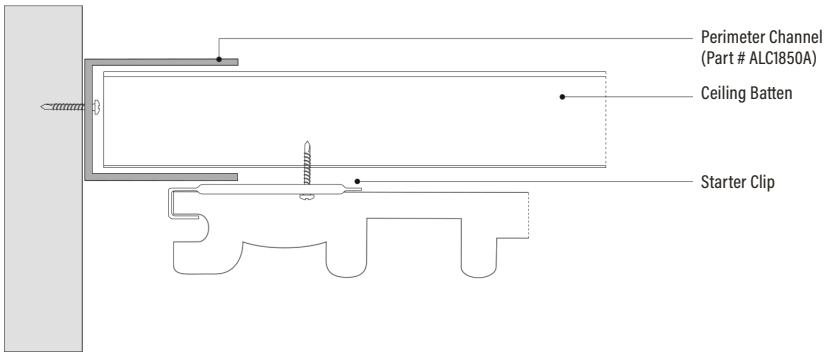
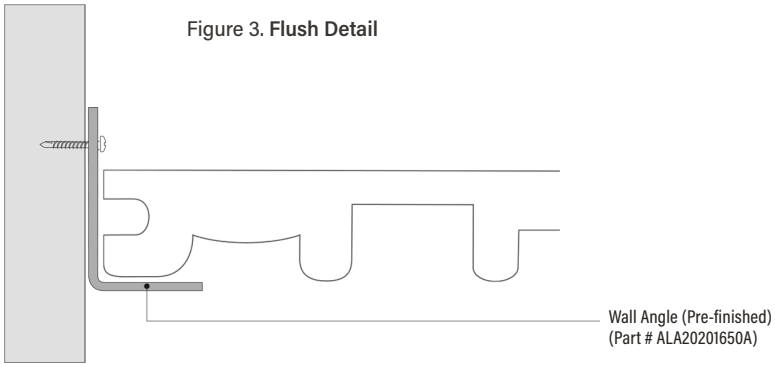
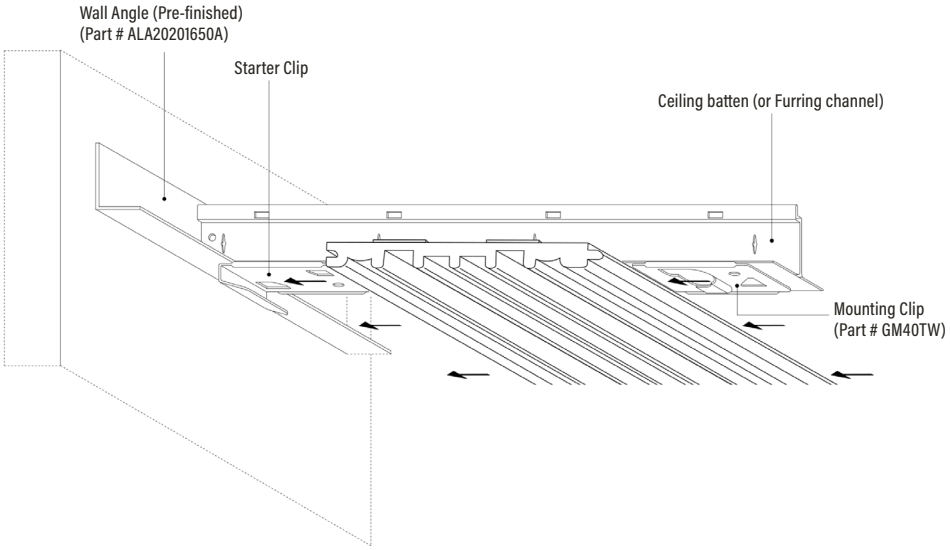


Figure 3. **Flush Detail**



4. Fix a Starter Clip to any furring channel or timber batten, using appropriate screws, where the abutting wall is located.
5. Slide first plank into Starter Clips.
6. On the opposite side of the plank, slide and firmly fix in place Mounting Clip into groove (Figure 4).
7. Install a Mounting Clip for every furring channel or batten, until first plank is fully in place.
8. Insert next plank into tongue and groove joint. Plank should accurately fit together using hand pressure only. If joint does not couple perfectly, check and remove any obstruction in the groove.
9. Once plank is in place, install a Mounting Clip in the groove on the leading edge of the plank. Ensure that a Mounting Clip is installed per each batten or furring channel
10. Repeat Steps 8-9 until desired ceiling area is covered.

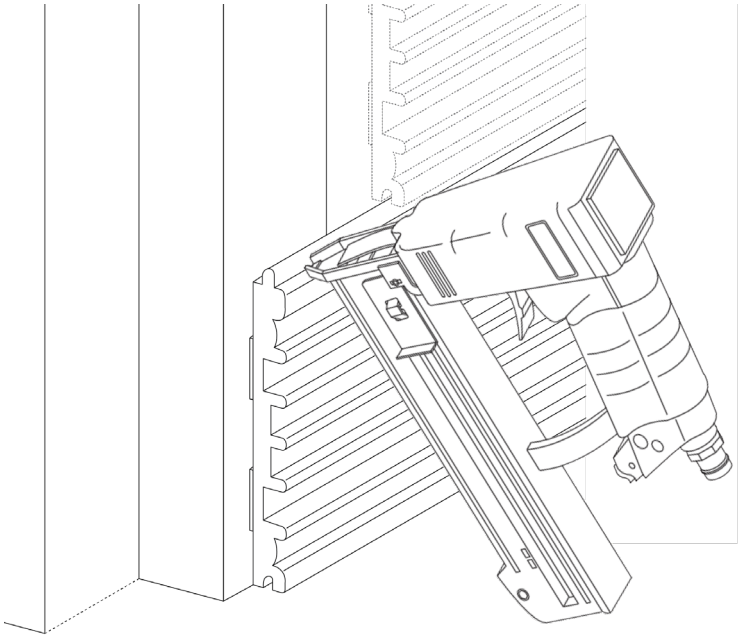
Figure 4. **Mounting detail**

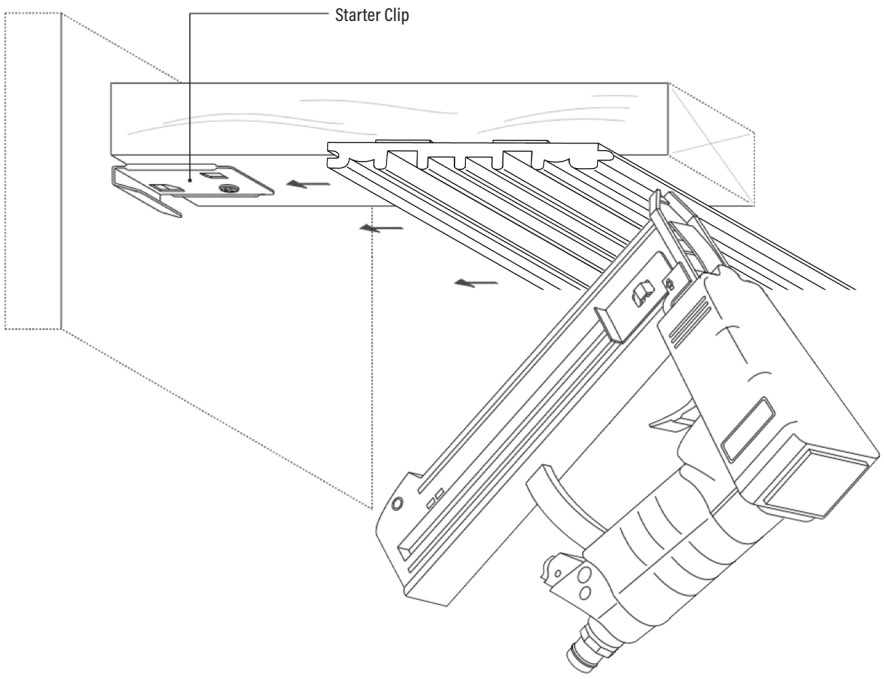


Note: a minimum 3mm expressed joint is required on the short edge of the plank when abutting to panels or extrusion to allow for natural material expansion/contraction.

Direct Fixing

As alternative to Clip, the planks can be direct fixed to the wall/ceiling structure with a compressed air staple gun and 32mm staples; angle the gun correctly and staple through the tongue of the planks as per the figures below.





Air pressure of the gun must be correctly set to prevent staples penetrating too deeply through the tongue or protruding out into the groove.

Once a plank is fixed to the structure, install the next one by sliding the slot into the tongue of the one already fitted.

Demounting Instructions

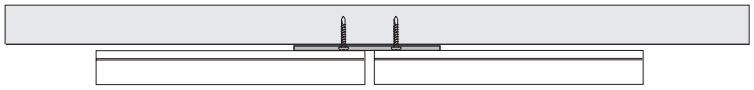
It is not recommended that panels are demounted and re-installed by unqualified personnel. Any lack of system knowledge could lead to a system failure.

To demount a plank, slide it back and down so as the tongue disengage from the slot of the adjacent plank.

Straight Joint Detail

A straight joint can be treated with a T shape extrusion or with a Flat Backing Strip.

Backing Strip Joint Detail (Part # FBBS-70)



Onsite storage, handling and installation instructions

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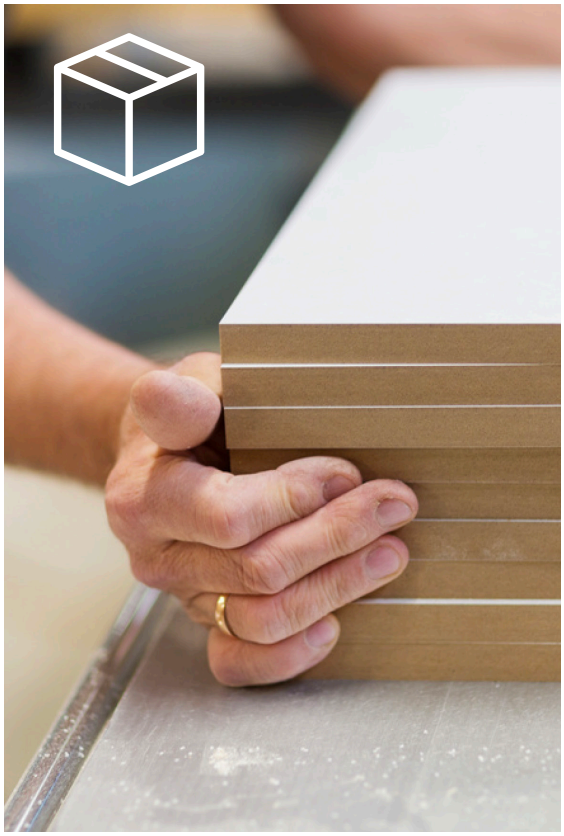
Receiving Products

Once you have received your order, it is important to allow the panels to acclimatise for at least 48 hours in its original packaging prior to installation. Only remove the packaging on the day of installation and store the panels according to the below instructions.



Storage

The storage area should be protected from the elements including sun, rain, and wind to avoid staining and fading. The panels should be kept at a stable room temperature and humidity and should not be exposed to the weather while awaiting installation.

Protect panels from any moisture including rain or accidental water. MDF and other wood-based products expand on taking up moisture and shrink on losing it. These panels are manufactured to very close dimensional tolerances. Careful storage is therefore very important for subsequent use of panels.

All packs should be evenly supported at each end and at intervals in between to maintain sheets in a flat condition. Spacing of supports should not exceed 600mm to avoid sagging.

Store clear of the ground and place panels so that they will not be exposed to any mechanical damage

Handling

Handle the product carefully to avoid damages during transport. The most vulnerable parts of board during handling operations are edges, corners, finished surface and bottom sheets in a stack.

It is essential to avoid any contamination of the surface likely to cause permanent damage.

Surfaced boards should always be lifted from the pack to avoid damage. Do not slide panels or rest the good side of the panel against the floor.

Once opening the packaging, cover the panels with cardboard, cloth or shrink wrap until they are installed. If panels must be repacked, replicate as closely as possible the original pack to maintain straightness and quality

Installation in a controlled environment

Atkar acoustic and decorative panels are for internal use only and **must be stored, installed, and maintained only in a stable environment**, avoiding very humid areas and extremely dry areas.

Open the package and fit the panels in the final stage of building works when windows and external doors are in place already. This allows the rooms to have a controlled temperature and humidity, preventing moisture from entering the panels.