Au.diSlat Datasheet

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Product Description

Au.diSlat panels create a three-dimensional effect in walls and ceilings, with separate pre-finished timber slats, mounted on an array of modules acoustically treated with the Sonus Acoustic Backing (SAB). Au.diSlat can be installed on a conventional furring channel or timber batten system, generating a continuous linear effect.

A wide selection of slat configuration and finish are available, as well as non-acoustic and solid back slat panels.

Features and Benefits

- Continuous contemporary linear styling thanks to a wide selection of slat configuration and the availability of custom design options
- Optimal Acoustic absorption (up to NRC 0.8)
- Sonus Acoustic Backing available in black (white and grey on request)
- Integral Concealed Fixing System for an uninterrupted appearance
- Complete range of pre-finished timber grain and decorative surfaces, including also laminate and timber veneer
- Fire Retardant and Moisture Resistant options to fit specific building construction requirements
- Decorative Slat option (with solid back panel and acoustic treatement)
- Design Assistance Service to support interior designers.

Up to
Group 1 Fire Rating

Up to
NRC value 0.8

Applications

Walls and Ceilings.

Warranty & Maintenance

Au.diSlat is warranted for 15 years. Refer to Atkar warranty and maintenance documents for terms.

Fire Rating

Au.diSlat has been tested to AS ISO 9705:2003 and complies with the AS 5637.1:2015, on Reaction to Fire of Internal Wall and Ceiling Linings. The range includes options up to Group 1 fire rating.

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

Substrates

- MDF Standard and Fire Retardant (FR MDF)
- MDF Blackcore and FR MDF Blackcore
- MDF Moisture Resistant

Finish Options

Au.diSlat can be finished with the wide range of **Inluxe Finishes**:

- InLuxe Colour
- InLuxe Veneer
- InLuxe Laminate
- Inluxe Image
- Raw

Alternatively, panels can be manufactured with custom finishes and custom veneers. Consult Atkar or refer to the following link for further information.

www.atkar.com.au/architectural/3d-visualiser_landing-page/

Material Sizes

Standard Slat panel width is 600mm and length is up to 3600mm. Panel thickness is variable according to the slat configuration.

Technical data

CODE	Kg/m2	Overall Panel thickness (mm)
AX-12S	20.6	30
AX-20S	17.1	30
AX-24S	17.9	30
AX-48S	19.2	30
AX-20F	24.3	112
AX-40F	26.0	82
AX-44F	20.8	57
AX-64F	26.5	52

Custom sizes are available, but the total panel weight must be considered as it impacts the installation and the ceiling structure design.

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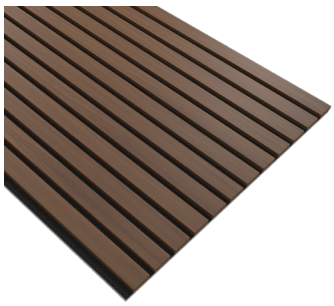
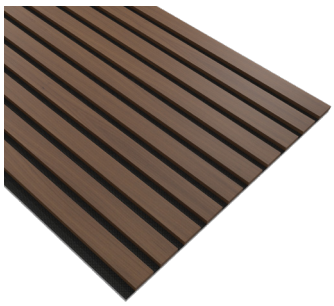
Slat Profiles

AX-48S

AX-24S

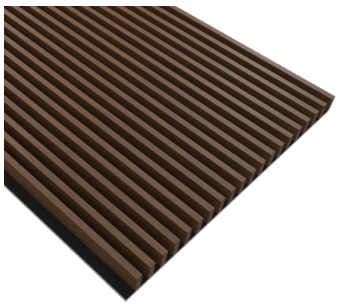


AX-20S

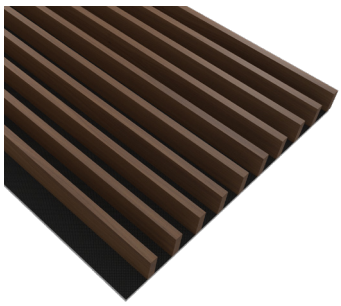


AX-12S

AX-40F

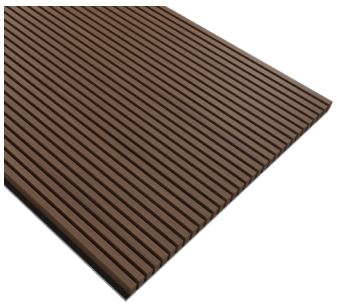


AX-20F



AX-44F

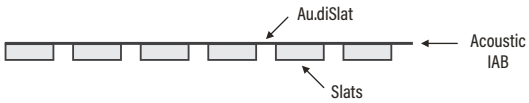
AX-64F



Slat Configurations

Au.diSlat range includes two types of panels:

SLAT AX-(code) **S**, where slats are attached to the back panel on the large side of the slat.



FIN AX-(code) **F**, made with slats, mounted on the back panel through the small side of the slat.

Acoustic Performance

Open Area Guide

CODE	Open Area
AX-12S	4.3%
AX-20S	15.7%
AX-24S	12.7%
AX-48S	6.2%

CODE	Open Area
AX-20F	32.1%
AX-40F	32.1%
AX-44F	25.9%
AX-64F	9.0%

For optimal acoustic absorption, a minimum 90mm air cavity behind the panel is recommended.

Consult Atkar for NRC value of Au.diSlat

https://www.atkar.com.au/product/au-dislat/

Design Assistance

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

Access Panels

Easy to operate lift-in/lift-out panels can be provided.

Custom sizes are available on request.

Consult Atkar for further information.

Fixing Guide

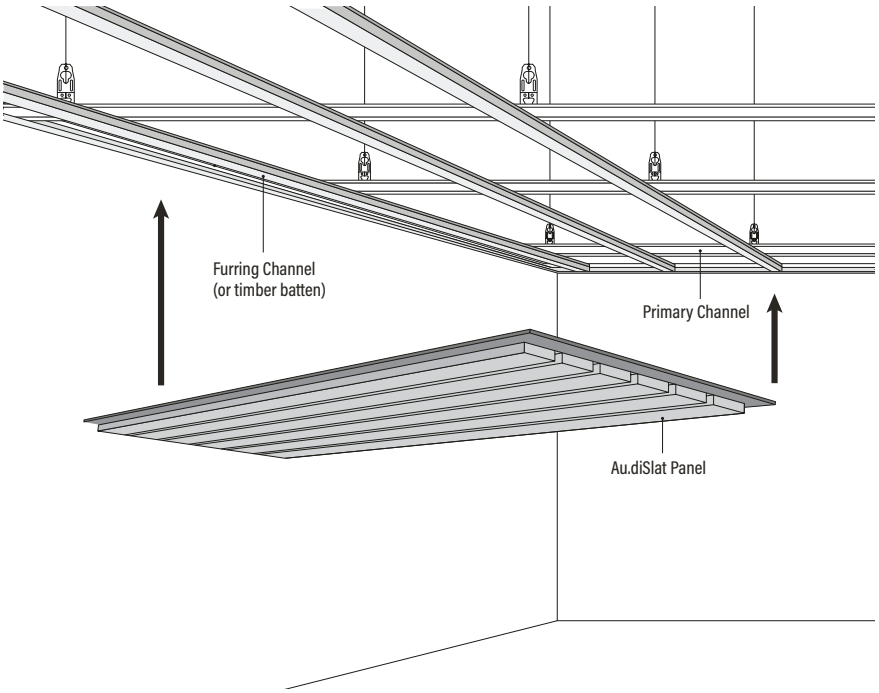
The following table is a general fixing guide. Considerations should be given to reduced framing centres for higher impact area, like corridors and crowded spaces.
Consult Atkar Technical Staff for assistance.

Au.diSlat	Max Framing Centre (mm)		Joints	
	Walls	Ceilings	Side	Ends*
Type S	600	600	Match slat spacing	5mm Minimum
Type F	-	600	Match slat spacing	5mm Minimum

*Panels must have expressed joints at the butt end.

Installation Procedure

1. Prior to construction of the support framing system, the entire ceiling should be set out in a grid format, bearing in mind the panel layout. It is recommended that set out is conducted from the centre of the room and that location of light fittings and other service is considered to avoid cutting through any of the framing members or panel fixing points. Grid must be kept square to avoid complications with panel installation.
2. Furring Channels or timber battens to be spaced according to the instructions of the frame manufacturer and considering the weight per m2 of slat panels (see table above on Technical Data).
3. Determine panel orientation
4. Begin the installation from a corner.
5. Au.diSlat has an integral fixing system to attach the panels to the support framing system.
6. Fix the TH7x40 screws through the gaps between adjacent slats at 300mm maximum centres, with sufficient material around the screw head to gain full support.
7. Repeat for adjoining panels. When all panels have been installed, check panels flushness and joints alignment adjusting when necessary.

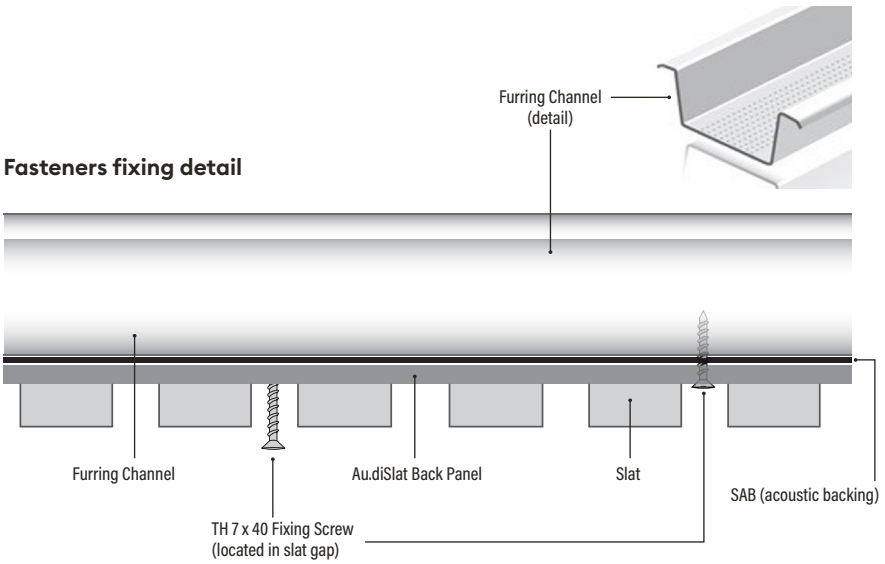


Panel Demounting

To de-mount a panel, locate and then remove the fixing screws. Slide panel back and down.

Attention: The fixing method is of a general nature and does not consider specific design criteria, such as wind loads, expansion joints and any other special requirements which should be separately provided by the specifier. Installation and de-mounting should be carried by qualified personnel.

Fasteners fixing detail



Onsite storage, handling and installation instructions

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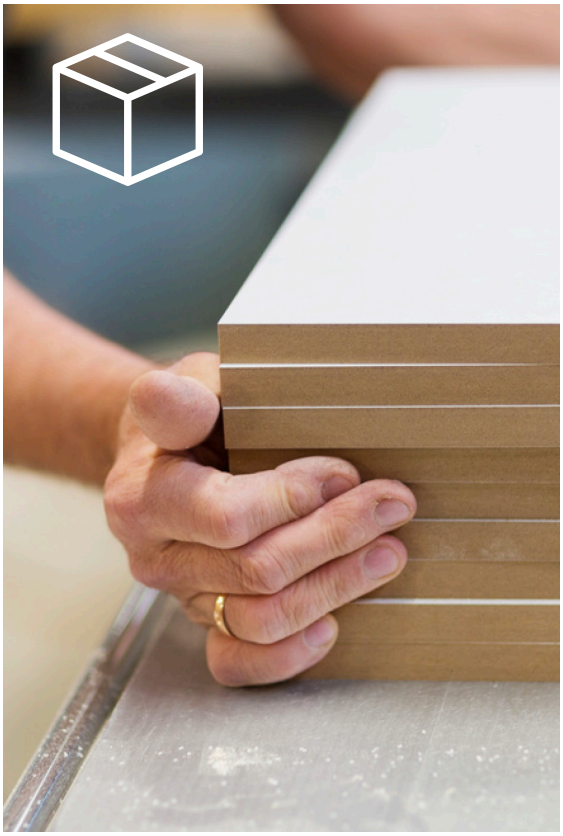
Receiving Products

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.