Au.diMicro Datasheet

atkar acoustics design innovation

Product Description

Au.diMicro combines the aesthetic design of a decorative solid panel with excellent ability in noise reduction. The panel surface features a front layer with micro perforations almost invisible and able to ensure a high level of sound absorption.

Features and Benefits

- High acoustic performance with the classic look of timber
- Micro perforations have almost no visual impact on the timber colour or grain, providing a seamless solid panel appearance
- Excellent acoustic control ability (up to NRC 0.85)
- Fire Retardant options for stringent reaction to fire requirements
- Custom Size and Finish panels available
- Concealed Fixing Systems for an uninterrupted appearance
- Design Assistance Service available to support interior designers.
- Integrated acoustic design with the Sonus Acoustic Backing (SAB) that ensures maximum sound absorption.

Up to
Group 2 Fire Rating

Up to
NRC value 0.85

Applications

Walls and Ceilings.

Warranty & Maintenance

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

Fire Rating

Au.diMicro has been tested according to the AS ISO 9705:2003 and complies with the AS 5637.1:2015, on Reaction to Fire of Internal Wall and Ceiling Lining. The range includes options up to Group 2 fire rating.

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

Substrates

- MDF standard
- Fire Retardant MDF (FR MDF)

Finish Options

Au.diMicro can be finished with selected Inluxe Micro timber veneer species.

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

Custom tints are available on request.
Speak to Atkar for more information

Material Sizes

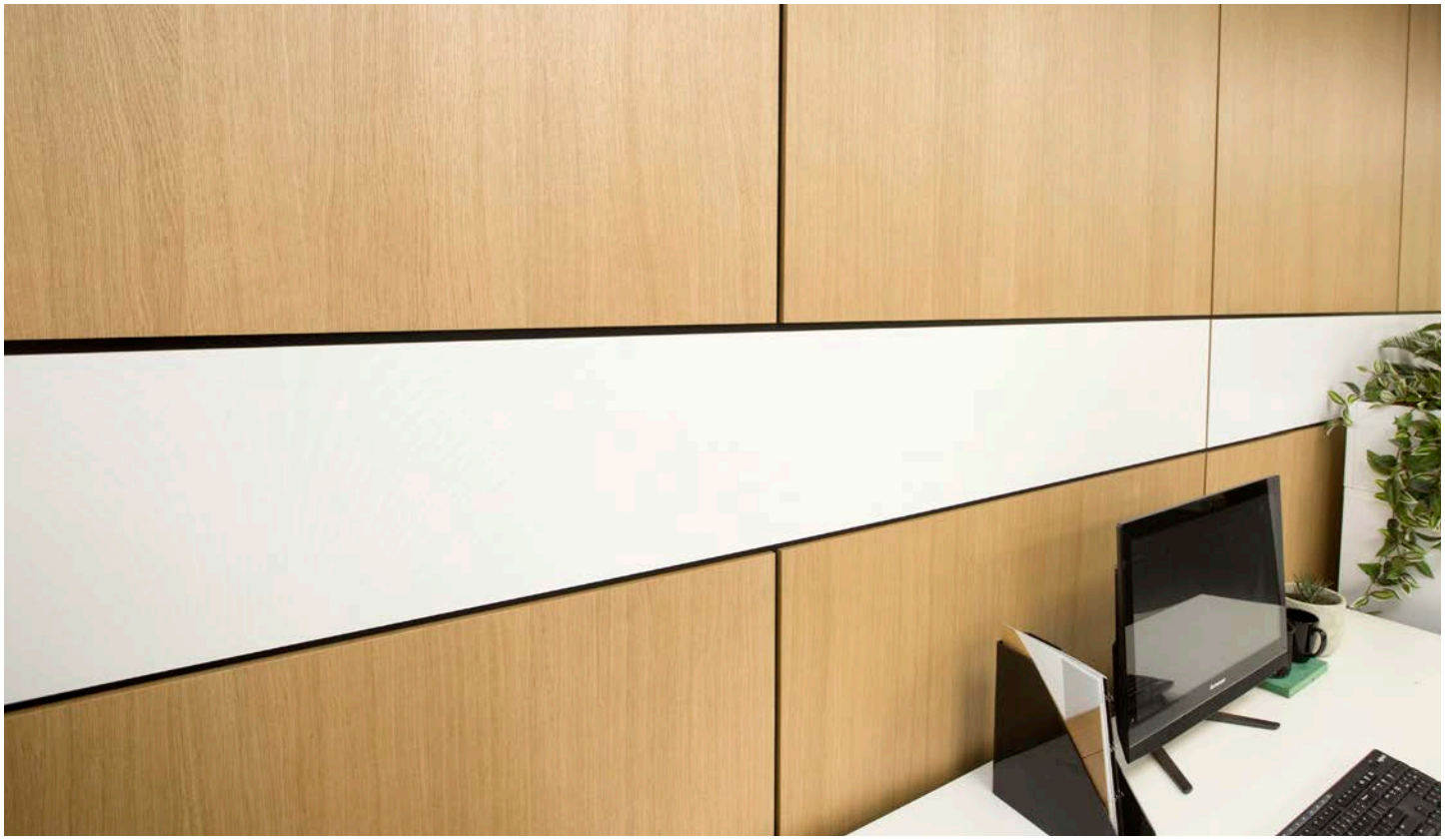
Au.diMicro is available in 12mm, 16mm and 18mm thickness.

- Standard Width up to 1200mm
- Panel Length up to 3000mm.

Panels size can be custom made, consult Atkar for more information.

Perforation Patterns

Perforations have 0.5mm diameter.



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Micro perforated panel face

TVM5/100 MDF Veneer Ash

TVM5/100 MDF Maple Veneer

TVM5/100 MDF Veneer Beech

TVM5/100 MDF Veneer Oak

TVM5/100 MDF Veneer Walnut

Acoustic Performance

Au.diMicro can reach an NRC value of up to 0.85.

For optimal acoustic absorption, a minimum 90mm air cavity between the panel and the wall/ceiling is recommended.

Access Panels

Concealed frame and easy to operate access panels can be provided with a standard size of 600x600mm.

Custom sizes are available on request. Consult Atkar for further information.

Fixing Guide

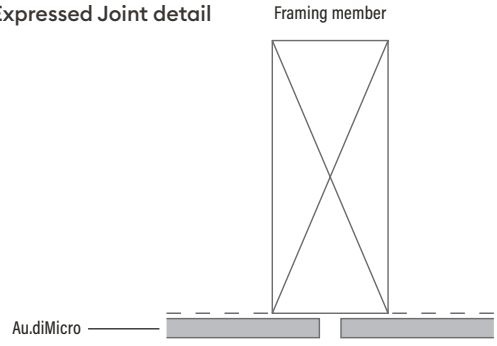
The following table provides a fixing guide for general applications. Consideration should be given to reduced framing centres for higher impact area (corridors, crowded spaces) or curved surfaces.

Substrate	Thickness (mm)	Maximum Framing Centres (mm)	Fastener Centres Perimeter (mm)	Fastener Centres Intermediate (mm)
MDF	12 - 18	600	200	300
FR MDF	12 - 18	600	200	300

Joints Options

Expressed Joint – can be matched or contrasted to the panel finish: black backing strips are supplied as standard or backing strips with other finishes available on request. Standard gap between two panels is 10mm (minimum recommended gap is 6mm).

Expressed Joint detail



Design Assistance

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

Fixing Systems

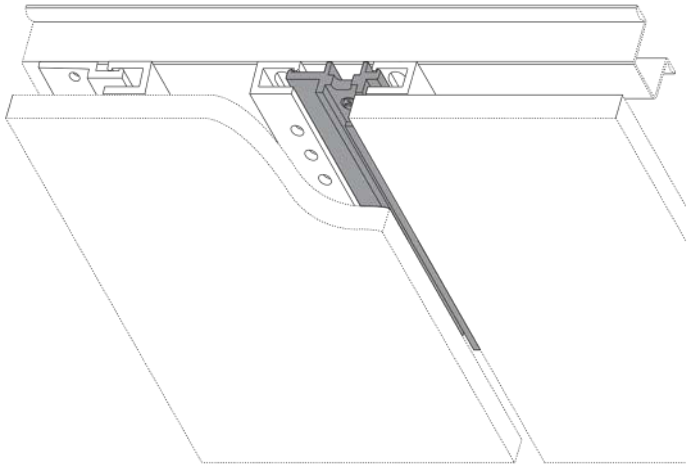
A selection of ***Fixing Systems*** are available based on the application, the specified joint and the aesthetic requirements:

This range includes options ranging from simple face-fixing through to the patented and demountable Au.diMount options.

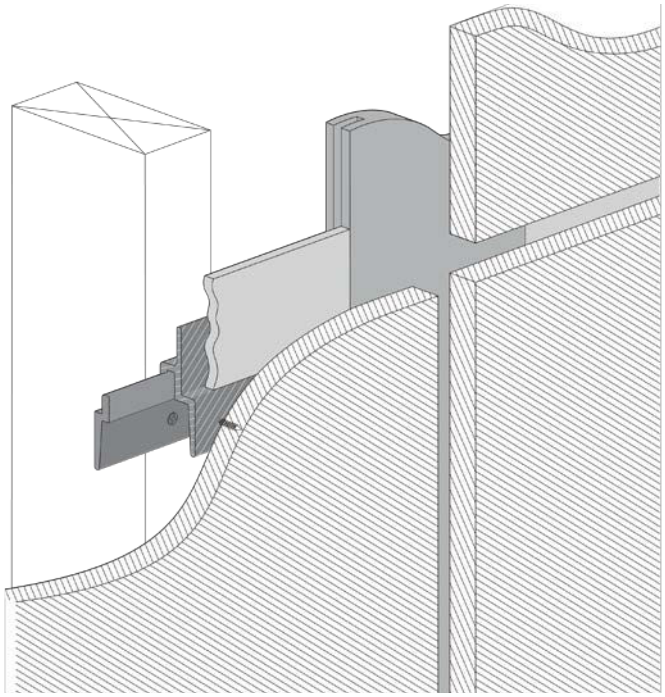
A selection is shown below or please speak to Atkar for a custom solution.

Ceiling	Au.diMount CX4 System		Direct Fix
Wall	Au.diMount XJ1 System for Expressed Joint	Au.diMount BJ2 System for Butt/Vee joint	Direct Fix

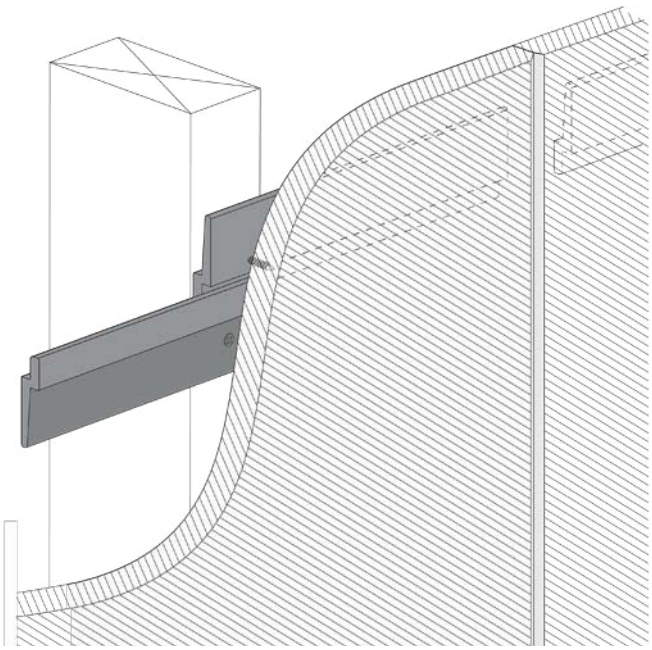
CX4 System



XJ1 System



BJ2 System



Refer to the following link for further information on the installation procedures.

atkar.com.au/architectural/technical-fixing-sheets/

Onsite storage, handling and installation instructions

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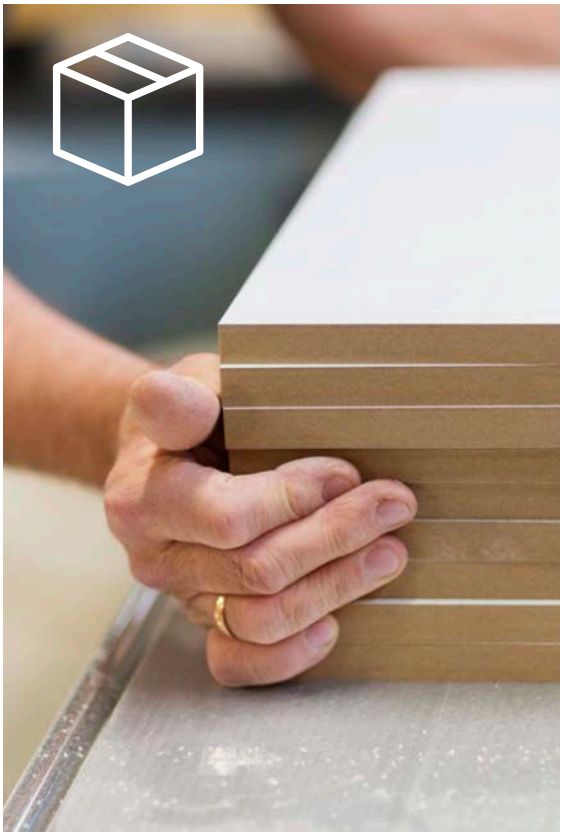
Receiving Products

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.