

Au.diPanel™ data sheet

Product Description

Au.diPanel offers our widest selection of perforation options and a choice of substrates. Combined with our range of decorative surface finishes and our Integrated Acoustic Backing (IAB), Au.diPanel lends itself to tailoring for specific appearance or acoustic performance requirements.

Product Features

- Standard range of pre-finished timber grain and decorative surfaces
- Largest selection of perforation patterns
- Panel sizes up to 3600 x 1200mm
- Veneers can be nominated to co-ordinate with other timber building elements or furnishings
- Higher impact-resistance obtained with plywood panels

Applications

Walls and ceilings

Variations

- Optional face veneer to your specifications
- Range of standard perforation patterns or custom patterns
- Range of standard side and end margins or custom margins
- Edge profiling and face detailing of panels available to specification
- Integrated Acoustic Backing (IAB)
- Graphic images achievable with Au.diPanel Graphic

Substrates

- MDF standard
- MDF fire rated
- MDF Blackcore / Blackcore fire rated
- MDF moisture resistant
- Plywood
- OSB

Fire Rating

For Group Number fire ratings please contact Atkar.

Warranty

Au.diPanel is warranted for fifteen (15) years. Refer to warranty document for terms.

Fixing Systems

- Au.diMount BJ2 concealed fix (walls)
- Au.diMount XJ1 concealed fix (walls)
- Au.diMount PS3 concealed fix (ceilings)
- Face fix

Finish Options

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

Material Sizes

Au.diPanel is available uncoated or pre-finished in our select range of decorative surface finishes in the following sizes. For non-standard sizes, consult Atkar Technical Staff.

Natural timber veneers in lengths over 2400mm are limited and subject to current availability.

	9.0 mm	12.0 mm	15.0 mm	16.0 mm	18.0 mm	19.0 mm	22.0 mm
MDF (mm)							
1800 x 900	•	•		•	•		
2400 x 900	•	•		•	•		
1800 x 1200	•	•		•	•		
2400 x 1200	•	•		•	•		
2700 x 1200	•	•		•	•		
3600 x 1200	•	•		•	•		
Plywood (mm)							
1800 x 900	•	•	•	•	•	•	•
2400 x 900	•	•	•	•	•	•	•
2700 x 900	•	•	•	•	•	•	•
1800 x 1200	•	•	•	•	•	•	•
2400 x 1200	•	•	•	•	•	•	•
2700 x 1200	•	•	•	•	•	•	•
OSB (mm)							
2400 x 1200		•	•		•		

Acoustic Performance

Diversity of perforation options allow for open area of panel to range from 2.47% up to 34.51% nominally.

NRC value up to 0.8

Open Area Guide

	AP12S	AP12SD	AP25S	AP25SD	AP50S	AP100S
Code						
45	9.71%	19.26%	2.47%	4.85%		
60	17.26%		4.38%	8.63%		
70	23.49%		5.97%	11.74%		
90			9.86%			
100			12.18%	23.98%		
120			17.53%	34.51%		
300					26.53%	
570						22.42%

Jointing Options

- Vee Joint
- Expressed Joint
(Where expressed joints are selected, allowance should be made for dressing of panel edges)



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Margin Options

Standard perimeter margin is 25mm. Other margin sizes possible.

Perforation Patterns

Available with perforation sizes ranging from 4.5mm to 57.0mm diameter in a selection of patterns as detailed below. For custom patterns and perforation sizes, consult Atkar Technical Staff.

MDF fire rated substrate can be used for the following perforation sizes: 6.0mm, 8.0mm, 10.0mm and 12.0mm.

Access Panels

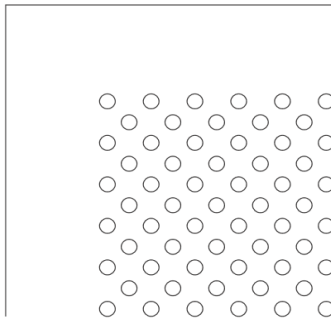
Access panels and other ceiling penetrations can be easily integrated into Au.diPanel. These processes should be carried out on-site during the installation of the planks. Service penetrations can be cut into the planks once they're installed. Alternatively a 2 or 3 plank width space can be left and a custom machined solid matching insert installed for services to be mounted to.

Standard access panel sizes: 450 x 450mm, 600 x 600mm. Custom sizes available on request.

Product Type AP125S



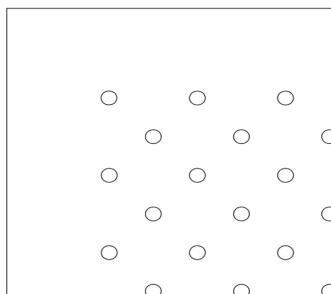
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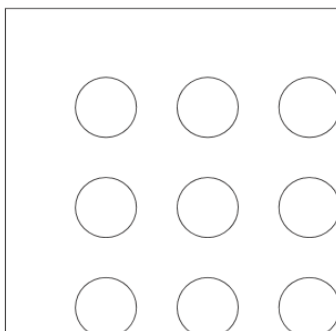
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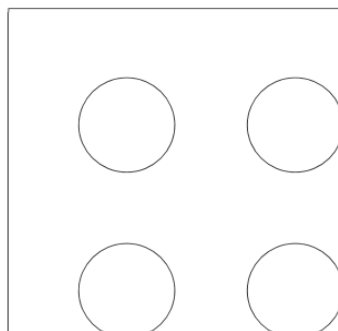
Product Type AP250D



Product Type AP500S



Product Type AP1000S

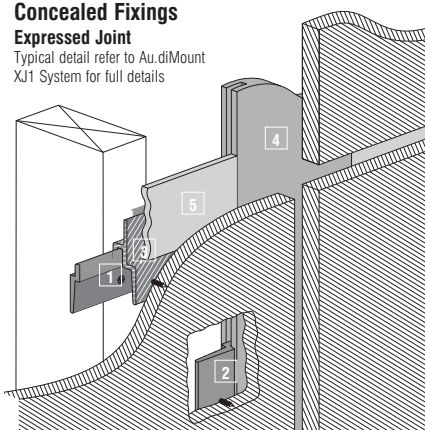


Au.diPanel installation guide

Concealed Fixings

Expressed Joint

Typical detail refer to Au.diMount XJ1 System for full details



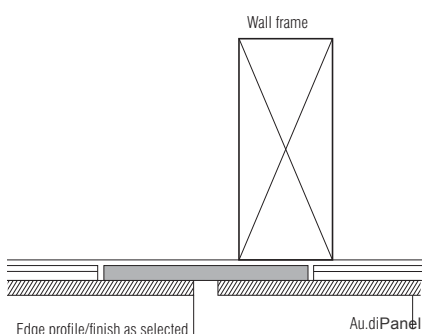
Installation Details

The following table provides a fixing guide for general residential and commercial applications. Panels can be face fixed or conceal fixed. Refer to Au.diMount data sheets for applicable concealed fixing systems.

Consideration should be given to reduced framing centres for higher impact areas such as corridors and crowded spaces, or where surfaces are to be curved. Au.diPanel wall panels should be installed with a full perimeter support and plywood ceiling panels must have the face grain running at right angles to framing members. If panels are to be face fixed, timber

Expressed Joint – Plan view

Au.diMount Concealed Fixing System (Refer to Installation System - XJ1)

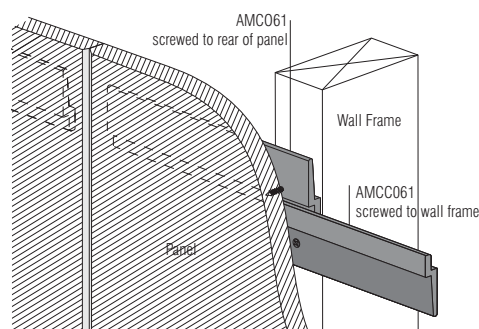


framing members are recommended to enable more discrete fixings to be used. To minimise the risk of buckling, it is recommended that the panels be allowed to acclimatise in the area in which they are to be installed. This is best achieved by standing individual panels loosely around the room and allowing air to freely circulate around them for several days prior to fixing. Allowance should be made between panels to accommodate swelling and building movement.

A 90mm air gap is recommended to achieve optimal acoustic performance. Please consult an acoustic engineer for further advice.

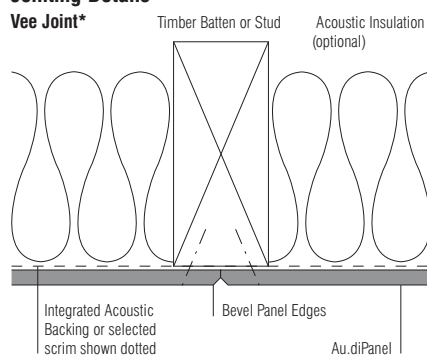
Butt Joint System

Typical detail refer to Au.diMount BJ2 System for full details



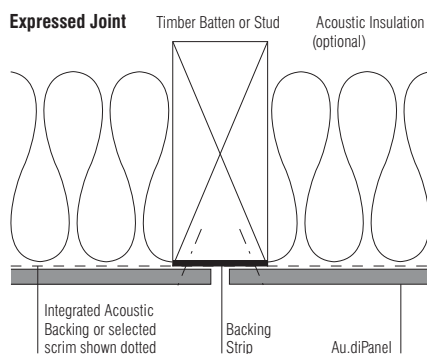
Jointing Details

Vee Joint*

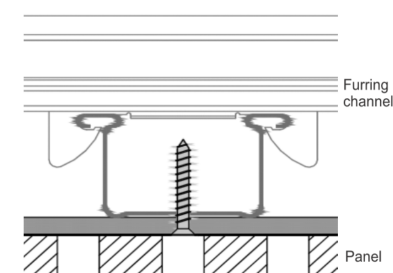


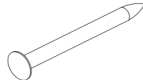

*Vee jointing may create difficulties with panel and perforation alignment

Expressed Joint



Typical detail refer to Au.diMount PS3 System for full details



Material Thickness (mm)	Maximum Framing Centres (mm)	Fastener Centres Perimeter (mm)	Fastener Centres Intermediate (mm)	Expansion Joints Required	Fastener Type (Both are suitable for MDF and Ply applications)
MDF		Walls and Ceilings		No	Timber Flat head nail, example 40 x 2.0mm panel pin 
9.0	450	200	300		
12.0 – 18.0	600	200	300		
Other *					
Ply		Walls		No	Steel 0.6 – 1.2mm HD 8/22, 8/30, 8/40 depending on panel thickness 
6.0	450	150	200		
		Ceilings			
6.0	600	150	200		
		Walls and Ceilings			
9.0 – 12.0	600	200	300		
16.0 – 25.0	600	300	400		

General fixing guide only, for interior applications, consult Atkar for full details.

* For other thicknesses consult Atkar Technical Staff.

Attention – The method of fixing indicated for this product is of a general nature only and does not allow for specific design criteria such as wind loads, expansion joints or any other special design requirements which should be separately provided for by the specifier. It is the installers responsibility to ensure panels are firmly secured.

Due to continual product improvement the information in this publication is subject to alteration without notice.

Face Fix

Concealed screw head as required. Consult Atkar for options available.

