Au.diLux Datasheet

atkar acoustics design innovation

Product Description

Au.diLux is a fibre cement lining panel, round hole perforated and supplied with our Sonus Acoustic Backing (SAB). It can be easily incorporated into a variety of wall and ceiling systems, providing a tough, durable and fire-resistant solution with excellent acoustic performances at the same time.

Thanks to its versatile fibre cement substrate, Au.diLux will not burn, rot or warp, making it ideal for high humidity or corrosive environments, eave soffit lining with ventilation to remove the moisture laden air, as well as buildings with high performance requirements in terms of reaction to fire.

Features and Benefits

- High Reaction to Fire performance (Group 1 rating of the AS 5637.1/2015)
- Excellent water-resistant properties
- Unaffected by steam, moisture, sunlight or vermin
- Ideal in harsh environments
- Multiple jointing options available
- Can be cut to custom shapes
- Sonus Acoustic Backing (SAB) black colour (white and grey on request).

Up to
Group 1 Fire Rating

Up to
NRC value 0.7

Fire Rating

The Au.diLux was tested according to the AS ISO 9705:2003 and classified as a Group 1 Fire Rating material. It complies with the AS 5637.1:2015 standard on Reaction to Fire of Internal Wall and Ceiling Lining.

Applications

Walls and Ceilings.

Warranty & Maintenance

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

Material Sizes

Au.diLux has a 1200mm standard width and it can be supplied with square or recessed edges.

Panels size can be customised. Consult Atkar for more information.

Substrate

Fibre cement

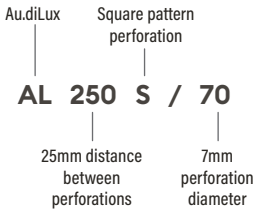
Finish Options

- Raw – coated on site
- Tinted undercoat – topcoat applied on site

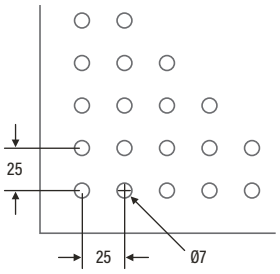
	Thickness (mm)	
Length (mm)	6mm	9mm
1800	0	
2400	0 X	0 X
2700	0	0 X
3000	0 X	0 X
3600	0 X	0

Recessed Edge 0 / Squared Edge X

Perforation Patterns



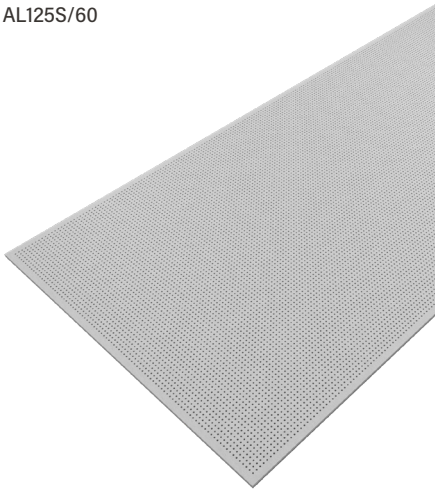
Au.diLux_AL250S/70



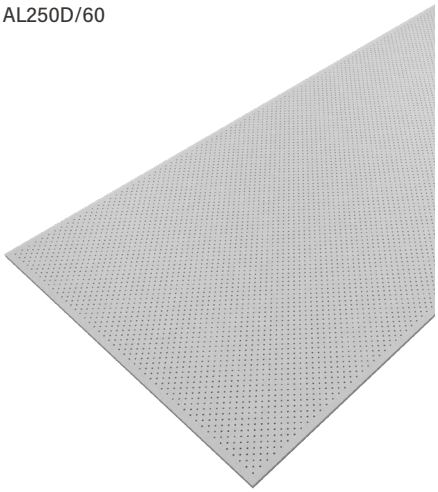
Standard Perforation Patterns

Standard perforation patterns are illustrated below. Consult Atkar for margin options.

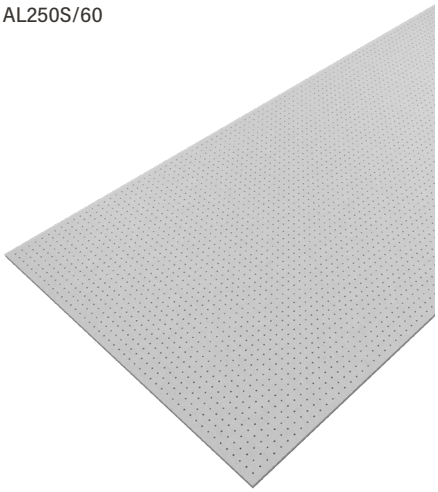
AL125S/60



AL250D/60



AL250S/60



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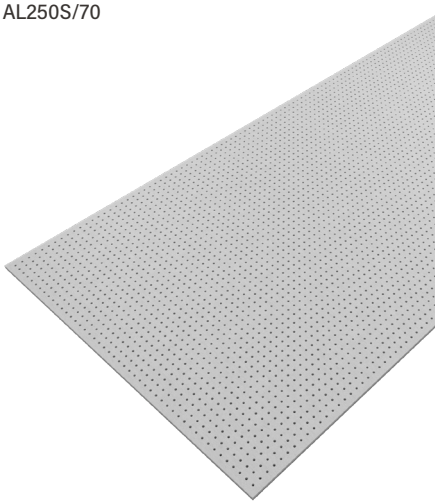
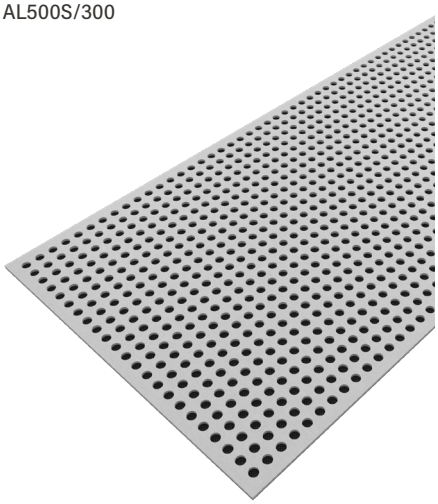
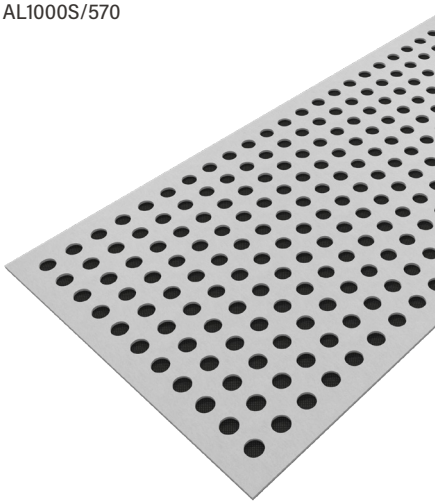


AL500S/300



AL1000S/570



Custom perforations available on request.

Acoustic Performance

Au.diLux can reach NRC value up to 0.7.

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

	Product code*				
Perforation code (Diameter)	**AL125S** (insert perforation diameter code)	**AL250S** (insert perforation diameter code)	**AL250D** (insert perforation diameter code)	**AL500S** (insert perforation diameter code)	**AL1000S** (insert perforation diameter code)
60 (=6mm)	17.2%	4.3%	8.6%		
70 (=7mm)		5.9%			
300 (=30mm)				26.5%	
570 (=57mm)					22.4%

* Always insert the perforation diameter code when referring to the product

Design Assistance

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

Fixing Guide

Au.diLux must be **face fixed** on timber battens or furring channels. Avoid to fixing panels directly to the underside of roof framing or to structural elements. Panels must be installed at right angles with framing with sheet ends coinciding with framing where possible.

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), high wind scenarios, curved surfaces, flush joints, and any other specific design requirements. Consult Atkar for special applications.

Panel Thickness	Max. Framing Centre	Fastener Centres Perimeter	Fastener Centres Intermediate
6mm or 9mm	600mm	200mm	300mm

Fasteners to be located not less than 12mm from panel edge and 50mm from panel corner. Use expansion joint for Flush Joint panels.

Recommended Fasteners

(supplied by others)

10-18 x 25 Fibre Teks

25mm long, class 3 selftapping screw

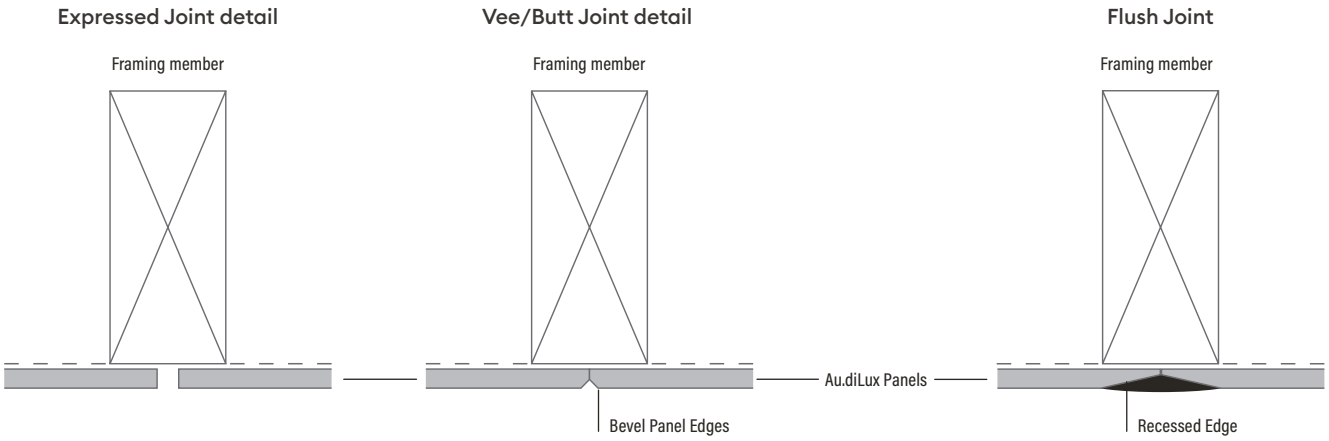
Joints Options

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).

Vee/Butt Joint – recommended only for small area as it may create difficulties with the panels or perforations alignment.

Bevel (AE95) profile should be used to compensate any minor variations in the structure or panel alignment. Expansion factors must be considered. Consult Atkar for further information.

Flush Joint - Panels can be joined with a flush, seamless appearance. Edges of panels are manufactured with a recess and the installer must apply a compound for fiber cement to fill the joints, prior to coating with a decorative finish. Minimum margin between panel edge and first perforation centre is 100mm.



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 the installation and store according to the following instructions.

Storage

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

Protect panels from moisture and accidental water. Careful storage is very important for subsequent use of these boards.

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 the packaging has been opened, 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.

Painting recommendations

The AS/NZS 2311:2017, the Association of Wall and Ceiling Industries (AWCI) and the Australian Paint Manufacturer's Federation (APMF) have defined the guidelines and recommendations for finishing plasterboard and fibre-cement with the objective to deliver to deliver the appearance of a uniform surface texture and colour.

Three coat system

Plasterboard and Fibrecement Atkar products, including the Vogl Range, supplied raw and painted on site, must feature a three-coat system

- Sealer Undercoat x1
- Top Coat x2.

Atkar recommendations for acoustic panels

- A short nap roller must be used
- Spray application of primer and paint must be avoided; the paint can affect the ability of the Integrated Acoustic Backing (IAB) of absorb the sound
- Avoid to use diluted or mixed paint for primer
- Do not use alkaline coats, such as lime, water glass and pure silicate-based paints, that are unsuitable for acoustic design ceilings
- Drying time instructions of primer and coating must be observed.

Failure to following the above guidelines may results in joins being visible and warranty avoided.

Refer to the Atkar Warranty and Maintenance documents or contact Atkar for further information.