

Foamed Aluminium Panels

Technical Data sheet

Description

Alusion™ is an innovative foamed aluminium material suitable for application as architectural wall and ceiling panels. Available in small and large cell styles with outer skin intact or removed from one or both sides to expose the cellular foamed structure, can be coated with clear epoxy resin for durable surfaces.

Application

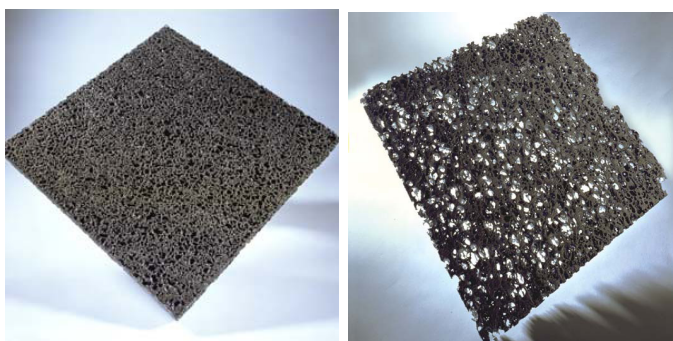
Alusion™ is ideal for feature wall and ceiling panels in lobbies, meeting rooms, apartments, retail, hotel, galleries etc. Resin coated panels recommended for durable wall surfaces.

Composition.

Manufactured from continuously cast foamed aluminium alloy and cut into sheets, can be curved, contains 20% recycled content.

Benefits

- Provides an exciting edgy high tech aesthetic with compelling organic cellular themes.
- Open cell styles provide useful levels of sound absorption and open two sides can be backlit for dramatic effect.
- Non combustible, corrosion resistant, light weight.
- Range of finishes available from natural skin, open cell and translucent.



Technical Specifications

# Cell	Natural	Open 1 side	Open 2 sides
12 mm large	AFLG - 12 LG	AFLG - 12 LG15	AFLG - 12 LG25
12 mm small	AFLG - 12 SM	AFLG - 12 SM15	AFLG - 12 SM25
25 mm large	AFLG - 25 LG	AFLG - 25 LG15	AFLG - 25 LG25
25 mm small	AFLG - 25 SM	AFLG - 25 SM15	AFLG - 25 SM25

Sound Absorption Rating:

A mount, 25 mm panel, 10% density, Open cell, NRC 0.50 per ASTM C423, other test report data available.

Hz	125	250	500	1000	2000	4000
aS	0.04	0.17	0.32	0.62	0.84	0.88

Size:

2440 x 1220 x 12 mm

2440 x 1220 x 25 mm

Cut sizes and lengths greater than 2440 mm available.

Cellular structure:

Panels are available in small and large cell styles, cells are random and vary.

Environmental impact:

High embodied energy, 100% recyclable, produced from post industrial aluminium.

Fire reaction:

AS 530 pt 3.

Smoke developed 0, spread of flame D.

Humidity:

Non hygroscopic, dimensionally stable, max. 100% R/H

Maintenance:

Clean with vacuum, soft brush or damp cloth. Resin coated panels are very robust and require no special maintenance, clean resin coated panels with cloth or a window cleaner, do not use abrasive cleaners, surface scratches in resin can be repaired with plastic polish and buffing.

Weight:

12 mm small cell 9.3 kg/m², large cell 5.4 kg/m²

25 mm small cell 13.2 kg/m², large cell 10.3 kg/m²

Installation:

Panels may be fixed to walls with concealed split rail, Z clip or screw fix through face. Cut on site with large tooth carbide tipped circular saw, diamond tipped blade or band saw. Panels may be water jet cut but care must be taken to dry the piece to prevent discolouration of metal. Drill panels with carbide tip tool, minimum 25 mm from edges. For translucent installations offset panels from wall to allow passage of light. Installation shall not commence until the building is water tight and dry.

Specifications:

Supply and install Alusion™ foamed aluminium panels to (ceiling) (wall) as supplied by Decor Systems Australasia Tel: +61 2 9748 1800 Fax: +61 2 9648 1800, # (), thickness (12.5mm) (25mm), cell type (small) (large), surface (natural) (open one side) (open two sides), finish (natural).

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