

Alusion™

Foamed Aluminium Panels

Technical Data sheet



asona

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 express the cellular foamed structure, can be coated with clear epoxy resin for durable surfaces.

Application.

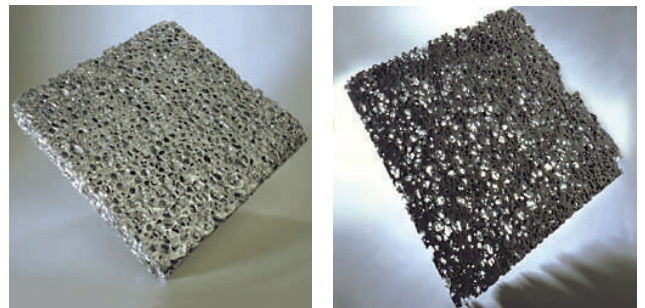
Alusion™ is ideal for feature wall and ceiling panels in lobbies, meeting rooms, apartments, retail, hotel, galleries etc. Resin coated panels recommended for durable wall surfaces.

Composition.

Manufactured from continuously cast foamed aluminium alloy and cut into sheets, can be curved, contains 20% recycled content. Made in Canada by Cymat Corporation.

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 back lit for dramatic effect.
- Non combustible, corrosion resistant, light weight.
- Range of finishes available from natural skin, open cell, translucent or with clear epoxy or coloured coatings.



Technical Specifications

# Cell	Natural	Open 1 side	Open 2 sides
0.5" large	ALFG-0.5LG	ALFG-0.5LG15	ALFG-0.5LG25
0.5" small	ALFG-0.5SM	ALFG-0.5SM15	ALFG-0.5SM25
1.0" large	ALFG-1.0LG	ALFG-1.0LG15	ALFG-1.0LG25
1.0" small	ALFG-1.0SM	ALFG-1.0SM15	ALFG-1.0SM25

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
αS	0.04	0.17	0.32	0.62	0.84	0.88

Size:

12.7 x 1220 x 2440 (0.5" x 4 x 8')
25 x 1220 x 2440 mm (1" x 4 x 8')
Cut sizes and lengths greater than 2440 mm available.

Finishes:

Panels available in clear epoxy resin coating for a durable easy to clean finish. Colours to order.

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:

AS1530 pt 3.
Smoke developed 0, spread of flame 0.

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.

NZ Building Code:

Clause B2—durability, 15 years

Weight:

0.5" small cell 9.3 kg/m², large cell 5.4 kg/m²
1.0" 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 the passage of light. Installation shall not commence until the building is water tight and dry.

Specification:

Supply and install Alusion™ foamed aluminium panels to (ceiling) (wall) as supplied by Asona Ltd Tel: 09 525 6575 Fax: 09 525 6579, # (), thickness (12.5mm) (25mm), cell type (small) (large), surface (natural) (open one side) (open two sides), finish (natural) (resin coated).

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