

# ALUSION<sup>TM</sup>

architectural stabilized aluminum foam



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# ALUSION™

ALUSION™ Stabilized Aluminum Foam for architecture is produced by Cymat Technologies Ltd, based in Toronto, Canada. An innovative materials technology company which has the exclusive worldwide rights, for producing ALUSION™ Stabilized Aluminum Foam, through patents and licenses. Panels are produced by injecting air into molten aluminum, along with a fine dispersion of ceramic particles. These particles stabilize the bubbles formed by the air, much like dry cocoa powder stabilizes bubbles when it is added to milk.

ALUSION™ is produced as continuous flat sheets. Standard sheet size is 1220 mm x 2440 mm (4' x 8'), 1220 mm x 3048 mm (4' x 10'), and 1220 mm x 3660 mm (4' x 12'). Custom sized panels, and as well longer panels, are available upon request.

ALUSION™ is made of 20% to 100% recycled content, and is 100% recyclable. ALUSION™ offers designers and architects a unique and visually stunning surface material, which is more than skin deep. ALUSION™ provides beauty, strength and lightweight acoustic solutions, for a variety of creative opportunities.

# Technical Details



There are three basic version types of ALUSION™ Stabilized Aluminum Foam:

- Small-Cell
- Medium-Cell
- Large-Cell

The higher the density, the smaller the cell size, the heavier and more robust the material is.

Basic version types are available with three different finishes, providing a distinct look on both the top and the bottom surface of the panels:

Natural

Cells Open on One Side

Cells Open on Two Sides

ALUSION™ is available in three standard thicknesses:

12.7 mm (0.5")

25.4 mm (1.0")

43.2 mm (1.7")

All ALUSION™ version types give truly a unique design element to any project.



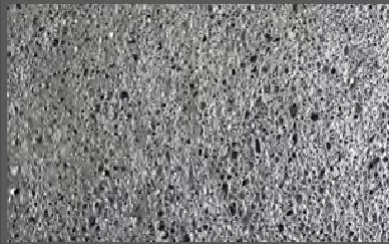
**ALUSION™ Small-Cell Natural**  
(available in 12.7 mm and 25.4 mm)

Produced naturally, with a shiny shimmering silver skin, and featuring a unique wavy pattern on the surface (most dense product).



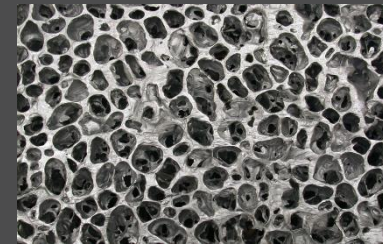
**ALUSION™ Large-Cell Natural**  
(available in 12.7 mm, 25.4 mm & 43.2 mm)

Features a large frozen molten bubble look on the top surface. This version type is particularly designed for interiors. The bubbles are delicate and can be collapsed by force. It is recommended that this material be placed out of reach of the public, or otherwise protected (e.g. glass or acrylic covered).



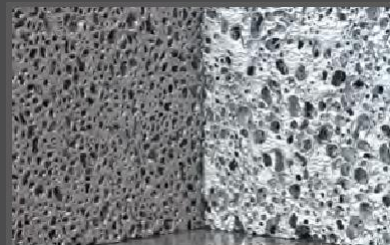
**ALUSION™ Small-Cell Open cells on One or Two Sides of the panel**  
(available in 12.7 mm and 25.4 mm)

Created by removing the shiny silver skin of the “Small-Cell Natural” on one or two sides of the panel, through a special blasting process. Cells below the skin are exposed. The surface consists of a series of small open and swirling solid areas. These areas mingle together to create an appearance described as similar to the surface of the moon, or a frozen porous lava flow (bottom side of our panels are always shinier)



**ALUSION™ Large-Cell Open cells on One or Two Sides of the panel**  
(available in 12.7 mm, 25.4 mm & 43.2 mm)

Manufactured in a low-dense material, resulting in large and deep open cells. The shiny silver skin of the “Large-Cell Natural” is removed, exposing the cells below. The surface is described as similar to an aluminum sponge. The 25.4 mm & 43.2 mm panels are the best for sound absorption.



**ALUSION™ Medium-Cell Cells Open on Two Sides**  
(12.7 mm & 25.4 mm)

This material offers deeper and more pronounced bubbles than the small-cell version type, and a smoother surface than the large-cell material. Both top and bottom surfaces of all ALUSION™ Panels have a different look.



**ALUSION™ Large-Cell Open cells on One or Two Sides of the panel**  
(12.7 mm, 25.4 mm, and 43.2 mm very little translucency)

The shiny silver skin on both sides of this low-density material is removed to create a translucent panel. It is extremely lightweight and allows light to pass through.

# All version Types available



## **ALUSION™ Small-Cell:**

- 12.7 mm (0.5"), Natural as Cast
- 12.7 mm (0.5"), Cells Open on One Side
- 12.7 mm (0.5"), Cells Open on Two Sides
- 25.4 mm (1.0"), Natural as Cast
- 25.4 mm (1.0"), Cells Open on One Side
- 25.4 mm (1.0"), Cells Open on Two Sides

## **ALUSION™ Medium-Cell:**

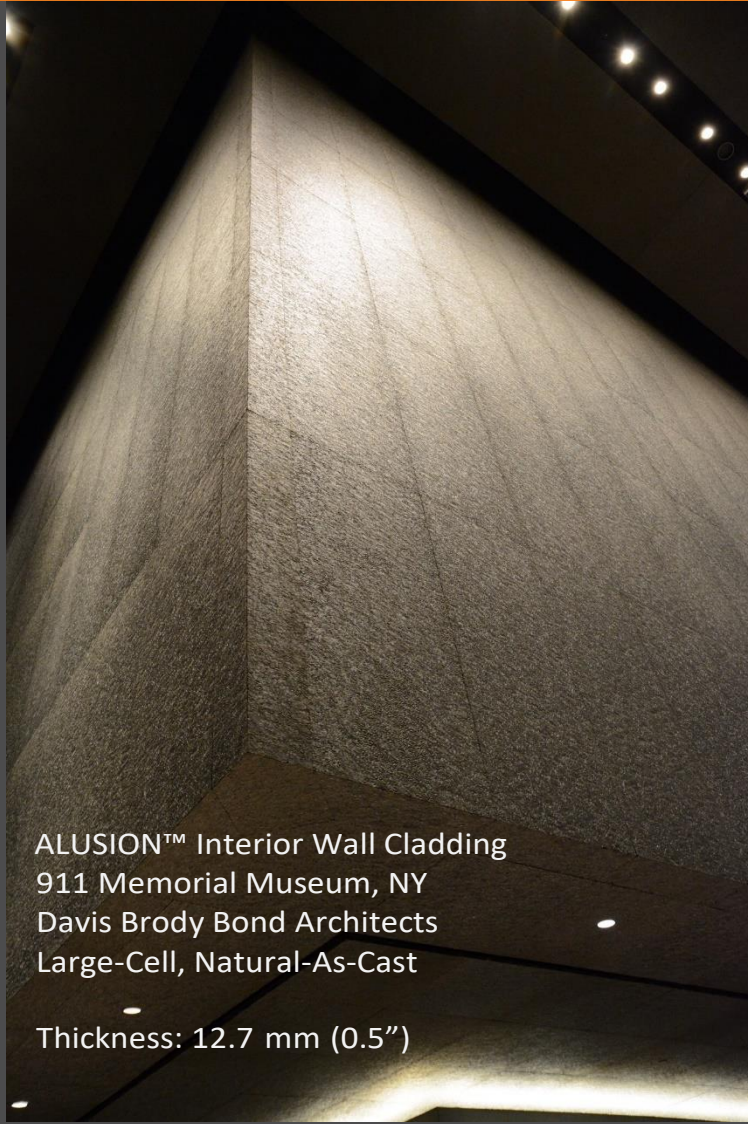
- 12.7 mm (0.5"), Natural as Cast
- 12.7 mm (0.5"), Cells Open on One Side
- 12.7 mm (0.5"), Cells Open on Two Sides
- 25.4 mm (1.0"), Natural as Cast
- 25.4 mm (1.0"), Cells Open on One Side
- 25.4 mm (1.0"), Cells Open on Two Sides

## **ALUSION™ Large-Cell:**

- 12.7 mm (0.5"), Natural as Cast
- 12.7 mm (0.5"), Cells Open on One Side
- 12.7 mm (0.5"), Cells Open on Two Sides
- 25.4 mm (1.0"), Natural as Cast
- 25.4 mm (1.0"), Cells Open on One Side
- 25.4 mm (1.0"), Cells Open on Two Sides
- 43.2 mm (1.7"), Natural as Cast
- 43.2 mm (1.7"), Cells Open on Two Sides

ALUSION™ is a unique and versatile material with virtually limitless design and architectural applications.

# Applications



ALUSION™ Interior Wall Cladding  
911 Memorial Museum, NY  
Davis Brody Bond Architects  
Large-Cell, Natural-As-Cast

Thickness: 12.7 mm (0.5")

ALUSION™ makes a special and very unique design statement, in any project. From a feature wall to the entire exterior of a building, its metallic lustre offers a variety of distinctive finishes, which cannot be exactly reproduced. ALUSION™ adds a signature touch to any work of architecture.

ALUSION™ Finishes may be used for creating designer ceilings, or fully finished ceilings which be produced to specific requirements.

ALUSION™ is used as an indoor or outdoor signage in retail stores, hotels, private and public buildings. With the application of a marine-based powder, ALUSION™ is readily adaptable to exterior applications.

ALUSION™ is used in various forms in the retail sector, from display design to wall cladding. ALUSION™ enhances the ambiance. The unique look of ALUSION™ lends itself to endless creative options.

ALUSION™ is used as walls, tabletops, and floor stands for exhibits and stand design. The material can be used to construct an entire booth including the actual walls and the display fixtures.

# Projects

ALUSION™ Stabilized Aluminum Foam has been used in the following applications:

- Facades
- Interior Wall Cladding
- Showroom Displays
- Restaurants and Bars
- Offices and Apartment Buildings
- Ceiling Tiles
- Flooring
- Signs
- Lighting
- Exhibits

The applications are endless. The results are amazing.

ENSAM, École Nationale Supérieure d'Arts et Métiers – Aix-En-Provence, France  
ALUSION™ Outdoor Gate, Custom Design  
ALFG-25.4-SM-1S, Small Cells Open on One Side,  
(TOP) Thickness: 25.4 mm (1.0")





FONDAZIONE PRADA

OMA Architects, 6800 m<sup>2</sup>

ALUSION™ Exterior Wall panels

ALFG-43.2-LG-1S, Large-Cell, Cells Open on One Side Thickness: 43.2mm (1.7")

Interiors and Rooftop: ALFG-43.2-LG-1S, ALFG-12.7-MD-2S, ALFG-25.4-LG-1S & ALFG-12.7-LG-1S



ALUSION™ EARTHCAM Headquarters, Davis Brody Bond;  
Spacesmith, ALEFG-12.7-LG-2S, Large Cells Open on Two  
Sides Thickness: 12.7 mm (0.5")

Alusion™ CAIXAFORUM - Sevilla, Spain  
Arch. Guillermo Vázquez Consuegra  
ALUSION™ Outdoor Feature Wall  
ALFG-12.7-SM, and ALFG-12.7-LG-2S  
3000 m<sup>2</sup>





ALUSION™ Theory, Japan - Exterior Cladding in a Brick configuration, ALFG-12.7-SM, Small-Cell, Natural Thickness: 12.7 mm (0.5")



Vanke Centre, China – Steven Holl Architects  
ALUSION™ Wall Cladding, in a Geometric Configuration  
ALFG-12.7-SM-1S, Small- Cell Open on One Side, (Top side), Thickness: 12.7 mm  
(0.5")

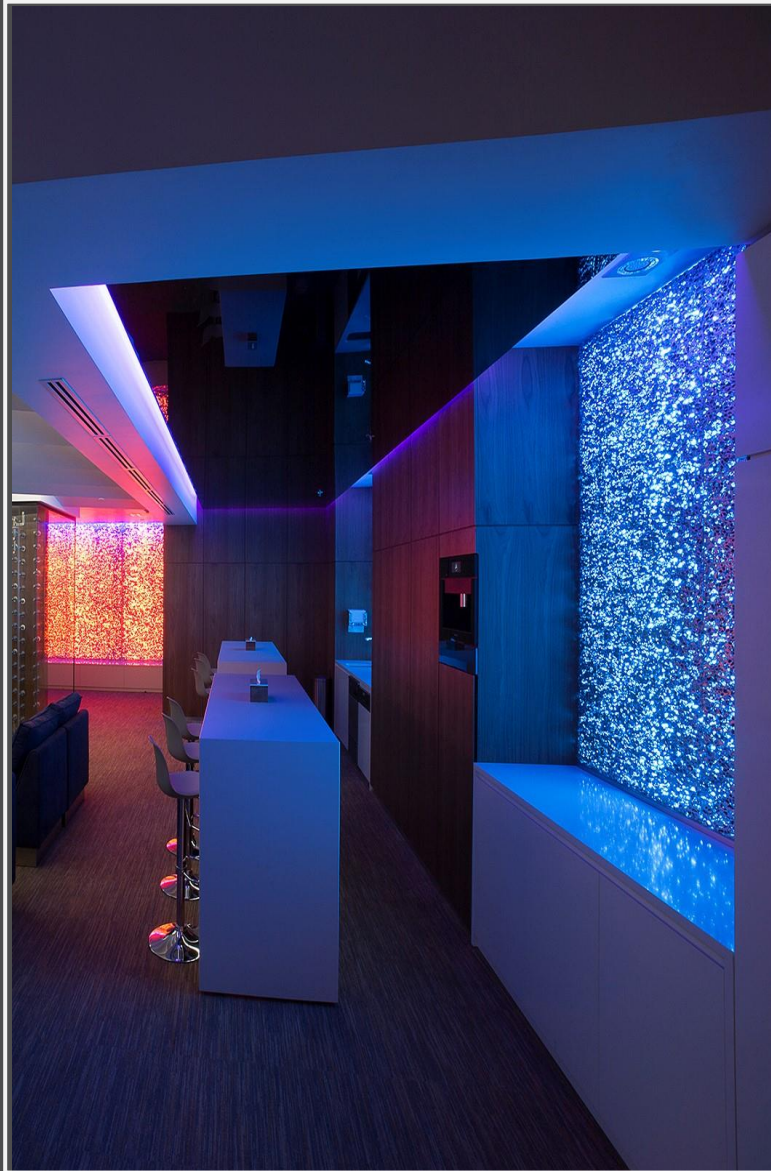




ALUSION™ AUDI Curved Exhibition Floor  
ALFG-12.7-SM-1S, Small-Cell, Open on One Side  
Thickness: 12.7 mm (0.5"), bent cold, with 3 roller bending machine



ALUSION™ PRAVDA BAR, Toronto,  
Illuminated Bar & Countertop Powder Coated in  
Gold & Epoxy-Covered  
ALFG-12.7-LG-2S, Large Cells Open on Two Sides  
Thickness:12.7 mm (0.5")



ALUSION™ “Another World” IT Company Office  
Anna Yevtushenko Architect  
ALFG-12.7-LG-2S, Large-Cell, Open on Two Sides  
Thickness: 12.7 mm (0.5")

ALUSION™ Backlit Wall Cladding & Bar  
Version: Large-Cell, Cells Open on Two Sides  
Thickness: 12.7 mm (0.5")







ALUSION™ Pravda Bar, Toronto  
Epoxy-Covered Tabletops, Powder  
Coated in Gold  
ALFG-12.7-LG-2S, Large-Cell, Open on Two Sides  
Thickness: 12.7 mm (0.5")



ALUSION™ Einstein Café, Switzerland  
Ceiling Panels, ALFG-12.7-SM-1S, Small Cells  
Open on One Side Thickness: 12.7 mm (0.5")



ALUSION™ Illuminated Feature Wall  
ALFG-12.7-LG-2S, Large-Cell, Open cells on Two Sides  
Thickness: 12.7 mm (0.5")



ALUSION™ Illuminated Wall Panels  
ALFG-12.7-LG-2S, Large-Cell, Open on Two  
Sides Thickness: 12.7 mm (0.5")



ALUSION™ Barcelona Church - Iglesia Terraza  
Exterior Wall Cladding / ALFG-12.7-LG-2S, Large-Cell,  
Open on Two Sides Thickness: 12.7 mm (0.5")





**ALUSION™ Feature Wall**  
**ALFG-12.7-SM-1S Small-Cell, Cells Open on One Side (Top)**  
**Thickness: 12.7 mm (0.5")**



ALUSION™ Ceiling Panels with Lighting  
ALFG-12.7-LG-2S, Large-Cell, Open on Two  
Sides, Thickness: 12.7 mm (0.5")



ALUSION™ Large-Cell Wall Cladding with Lighting  
ALFG-43.2-LG-1S, 43.2 mm (1.7") - Cells Open on  
One Side



ALUSION™ Logo Panel  
ALFG-12.7-LG-2S, Large-Cell, Open on Two Sides  
Thickness: 12.7 mm (0.5")



ALUSION™ Custom Design  
ALFG-25.4-SM-1S, Small-Cell, Open on One Side  
Thickness: 25.4 mm (1.0")



ALUSION™ AUDI Logo Panel  
ALFG-12.7-LG-1S, Large-Cell, Cells Open on One  
Sides Thickness: 12.7 mm (0.5")

# ALUSION™



ALUSION™ Architectural Stabilized Aluminum Foam (SAF) is manufactured by Cymat Technologies Limited. Outside Canada, ALUSION™ is distributed by our “approved business partners”. Please contact us for more information, thank you.

[sales@alusion.com](mailto:sales@alusion.com)

[www.alusion.com](http://www.alusion.com)

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