

ALUSION™

architectural stabilized aluminium foam



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ALUSION™



ALUSION™ Architectural Stabilized Aluminium Foam is made by injecting air into molten aluminium, which contains 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 or three-dimensional shapes. The standard sheet size is 2440 mm x 1220 mm (96" x 48"). Custom sizes are available upon request.

ALUSION™ is made with up to 20% recycled material, and is 100% recyclable.

ALUSION™ offers designers and architects a unique and visually stunning surface material that 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 versions of ALUSION™:

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

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

Basic versions are available with three different finishes, providing a distinct look on both top and bottom surfaces 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™ versions truly give a unique design element to any project. Here are the details of some of the most popular ALUSION™ Versions:



ALUSION™ Small-Cell Natural

Produced naturally on higher density materials with a shiny, shimmering silver skin, featuring a unique wavy pattern on the surface.



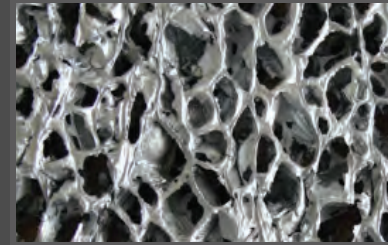
ALUSION™ Large-Cell Natural

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



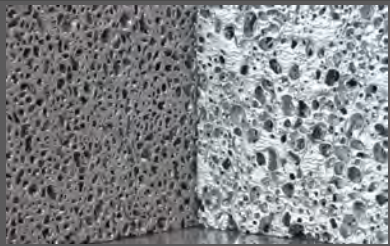
ALUSION™ Small-Cell Cells Open on One Side

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



ALUSION™ Large-Cell Cells Open on One Side

Manufactured with a low-density material, resulting in large and deep open cells. The shiny silver skin of the “Large-Cell Natural” is removed, exposing the cells underneath. The surface is described as similar to an aluminium sponge. This version with a closed back is the best for sound absorption.



ALUSION™ Medium-Cell Cells Open on Two Sides

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



ALUSION™ Large-Cell Cells Open on Two Sides (Translucent)

The shiny silver skin on both sides of low-density material is removed to create a translucent panel. This version is extremely lightweight and allows light to pass through. All ALUSION™ Panels are highly reflective, however the bottom surface of this panel is the most reflective version. ALUSION™ Translucent sharply reflects light and even picks up the colour of well lit material at a reflective angle to the panel.

Versions



ALUSION™ Small-Cell Versions:

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

ALUSION™ Medium-Cell Versions:

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

ALUSION™ Large-Cell Versions:

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

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

ALUSION™ can be:

- Powder coated to match PANTONE and RAL references
- Coated in polymers such as clear coat protector or lacquer
- Over-moulded with plastics (e.g. epoxy) to make a hybrid structure



Applications


ALUSION™ makes a statement as a dramatic cladding from a feature wall to the entire exterior of a building. Its metallic luster combined with a variety of finishes, each of which offers a distinctive surface that cannot be exactly reproduced. ALUSION™ adds a signature touch to any work of architecture.

ALUSION™ Finishes may be used for creating designer ceilings. Fully finished ceilings can be made 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.

A photograph showing a long, curved interior wall covered in a highly reflective, metallic ALUSION material. The wall is illuminated from below, creating a warm, golden glow. A long, thin, metallic fixture is mounted on the wall, and several spotlights are visible. The ceiling is dark with recessed lighting. The overall atmosphere is modern and dramatic.

ALUSION™ Interior Wall Cladding
Version: Large-Cell, Cells Open on One Side
Thickness: 43.2 mm (1.7")

Projects

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

- Interior Wall Cladding
- Exterior 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.

ALUSION™ Outdoor Gate, Custom Design
Version: Small-Cell, Cells Open on Two Sides
Thickness: 25.4 mm (1.0")



ALUSION™ Outdoor Feature Wall, Daytime View
Version: Large-Cell, Cells Open on Two Sides
Thickness: 12.7 mm (0.5")



ALUSION™ Outdoor Feature Wall, Nighttime View
Version: Large-Cell, Cells Open on Two Sides
Thickness: 12.7 mm (0.5")



ALUSION™ Illuminated Glass-Covered Wall Panels
Version: Large-Cell, Cells Open on Two Sides
Thickness: 12.7 mm (0.5")



ALUSION™ Ceiling Panels with LEDs
Version: Large-Cell, Cells Open on Two Sides
Thickness: 12.7 mm (0.5")



ALUSION™ Exterior Cladding in a Brick Configuration
Version: Small-Cell, Natural
Thickness: 12.7 mm (0.5")



ALUSION™ Door on Wood Substrate
Version: Small-Cell, Cells Open on One Side
Thickness: 12.7 mm (0.5")

ALUSION™ Wall Cladding in a Geometric Configuration
Version: Small- Cell, Cells Open on One Side
Thickness: 12.7 mm (0.5")

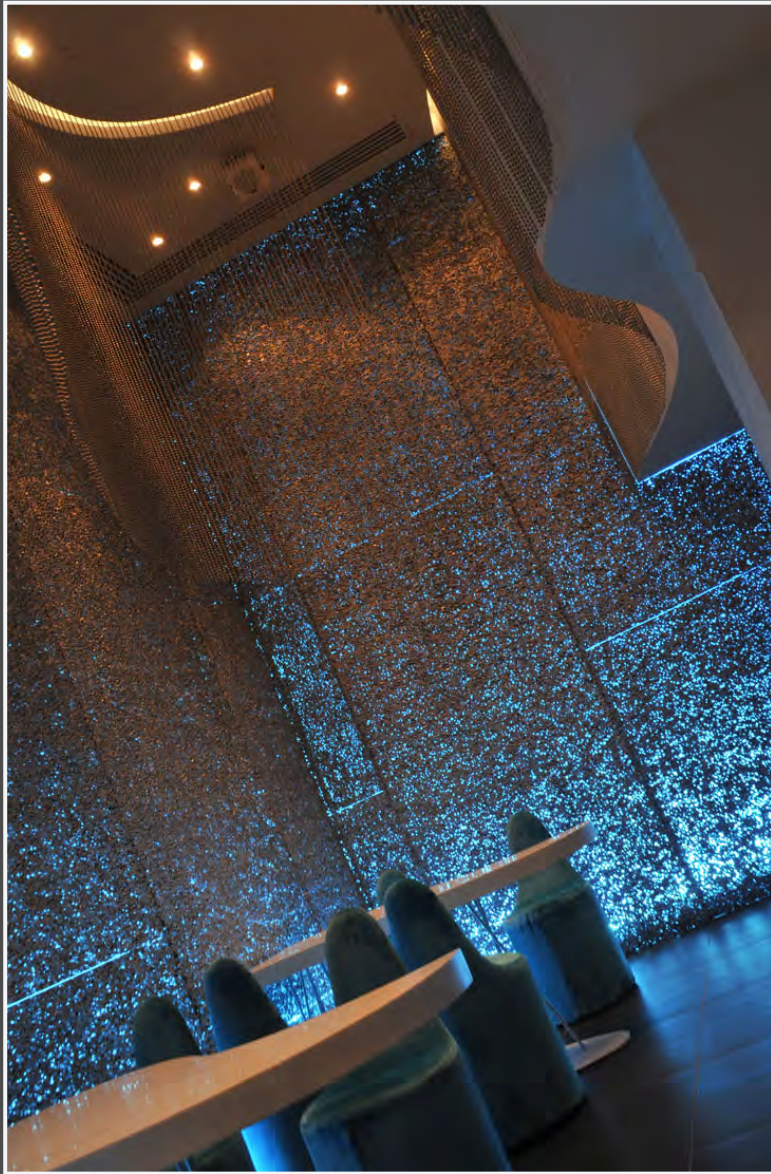




ALUSION™ Curved Exhibition Floor
Version: Small-Cell, Cells Open on One Side
Thickness: 12.7 mm (0.5")



ALUSION™ Illuminated Bar & Countertop
Powder Coated in Gold & Epoxy-Covered
Version: Large-Cell, Cells Open on Two Sides
Thickness: 12.7 mm (0.5")



ALUSION™ Illuminated Wall Panels
Version: Large-Cell, Cells Open on Two Sides
Thickness: 12.7 mm (0.5")

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





ALUSION™ Epoxy-Covered Tabletops
Powder Coated in Gold
Version: Large-Cell, Cells Open on Two Sides
Thickness: 12.7 mm (0.5")



ALUSION™ Ceiling Panels with Lighting
Version: Small-Cell, Cells Open on One Side
Thickness: 12.7 mm (0.5")



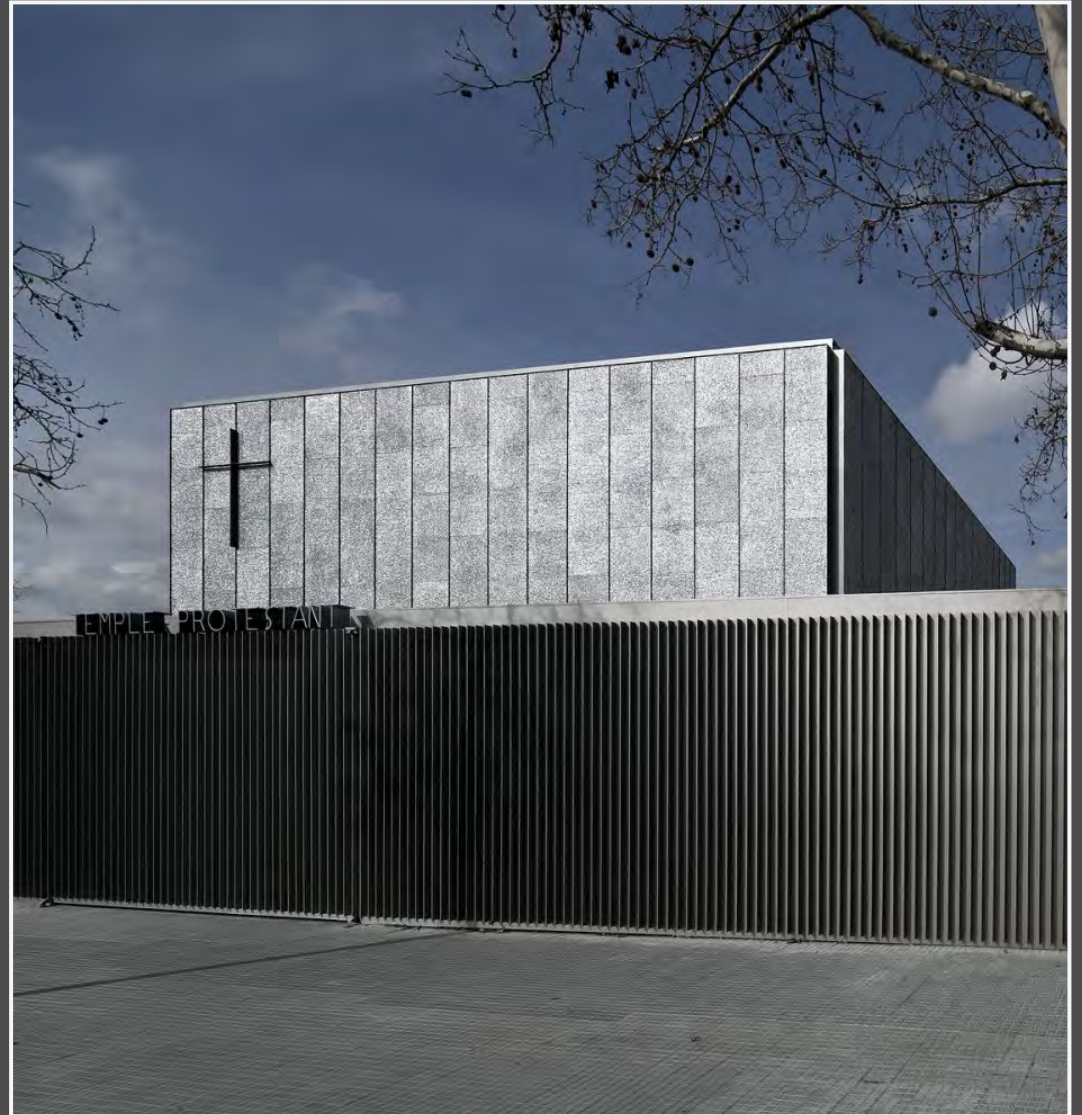
ALUSION™ Illuminated Feature Wall
Version: Large-Cell, Cells Open on Two Sides
Thickness: 12.7 mm (0.5")



ALUSION™ Illuminated Wall Panels
Version: Large-Cell, Cells Open on Two Sides
Thickness: 12.7 mm (0.5")

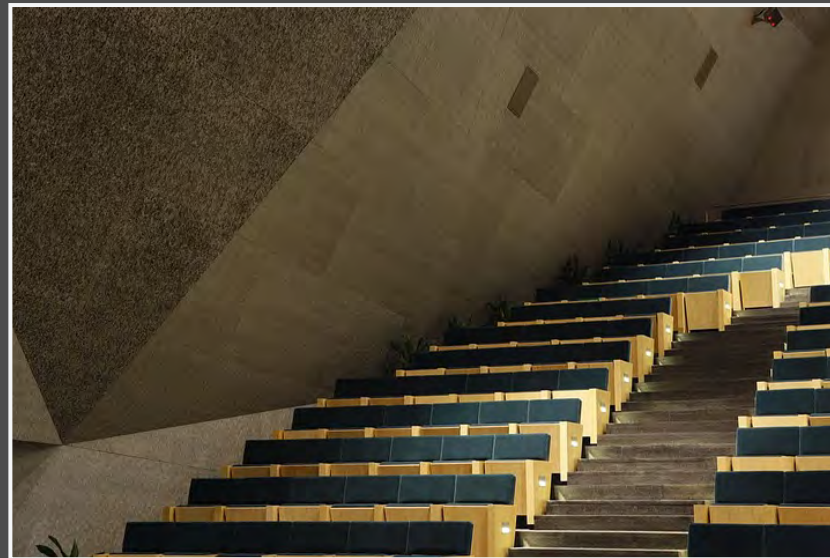
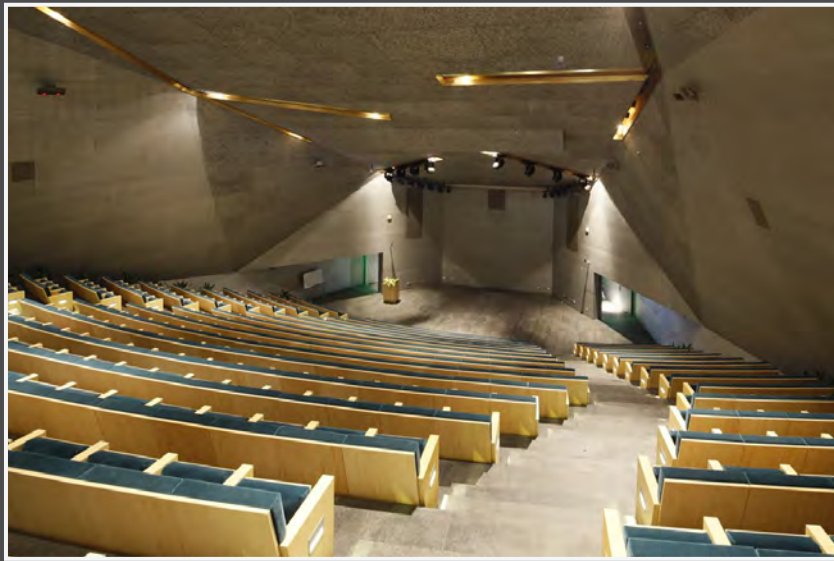


ALUSION™ Exterior Wall Cladding
Version: Large-Cell, Cells Open on Two Sides
Thickness: 12.7 mm (0.5")





ALUSION™ Interior Wall Cladding
Version: Large-Cell, Cells Open on One Side
Thickness: 43.2 mm (1.7")



A Combination of two ALUSION™ Versions with Acoustic Backing
Darker Panels: 12.7 mm (0.5"), Large-Cell, Cells Open on One Side
Lighter Panels: 12.7 mm (0.5"), Small-Cell, Cells Open on One Side



ALUSION™ Entrance Feature Wall
Version: Small-Cell, Cells Open on One Side
Thickness: 12.7 mm (0.5")



ALUSION™ Ceiling Panels with Lighting
Version: Large-Cell, Cells Open on Two Sides
Thickness: 12.7 mm (0.5")



ALUSION™ Large-Cell Wall Cladding with Lighting
Thickness: 43.2 mm (1.7") - Cells Open on One Side



ALUSION™ Logo Panel
Version: Large-Cell, Cells Open on Two Sides
Thickness: 12.7 mm (0.5")



ALUSION™ Custom Design
Version: Small-Cell, Cells Open on One Side
Thickness: 25.4 mm (1.0")



ALUSION™ Logo Panel
Version: Large-Cell, Cells Open on Two Sides
Thickness: 12.7 mm (0.5")

ALUSION™

ALUSION™ Architectural Stabilized Aluminium Foam is manufactured by Cymat Technologies Limited. Outside Canada, ALUSION™ is distributed by specialist companies. An exclusive distributor list is available at www.alusion.com.

Contact us:

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www.alusion.com

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