



100% MADE IN ITALY

INTRO

The art panels, designed by **Aletia Art Design Srl**, are handcrafted decorative coverings, completely customizable and suitable for any environment.

Each panel is crafted using a combination of three key elements:

- 1) A base layer of aluminum or acrylic sheet.
- 2) Digitally printed UV graphics, enhanced with hand-applied artistic details using acrylic paints and metallic powders.
- 3) A final layer made from multiple coats of transparent, waterproof and bi-component epoxy resin.

FEATURES

- Suitability for both indoor and outdoor applications such as wet areas, pools, outdoor spaces, walls, design accents, doors, countertops, backsplashes, elevators, ceilings and curved surfaces.
- Durability and stability over time.
- Water and UV Rays resistance.
- Extremely lightweight and easily manageable allowing for milling, cutting, bending, folding and mitering.
- Made with non-toxic and solvent-free components.
- Versatility in size: multiple panels can be joined together to cover any surface dimension.
- Uniqueness: every piece is one of a kind and not replicable.

MATERIALS

The art panels are created using an advanced and versatile material, available in three different types:

- **Composite Aluminum (AC)** consists of two layers of aluminum with a polyethylene core. It is primarily used for flat surfaces such as walls and ceilings.
- **Pure Aluminum (AP)** is recommended for applications that require flexibility, such as curved walls, columns, and furniture designs.
- **Acrylic/Opaline (A/O)** features an acrylic base. Its translucent nature makes it ideal for backlit installations in any area, whether using traditional or LED lighting.

SPECIFICS

COMPOSITE ALUMINUM PANEL:

- o Thickness: 0.12" / 3 mm
- o Maximum single panel size: 6.5' x 10' / 2000 mm x 3050 mm
- o Maximum single panel size mirror base: 4' x 10' / 1220 mm x 3050
- o Weight: 1 lb/ft² / 5 kg/m²

PURE ALUMINUM PANEL:

- o Thickness: 0.04" / 1 mm
- o Maximum single panel size: 4' 11" x 9' 10" / 1500 mm x 3000 mm
- o Weight: 0.5 lb/ft² / 2.5 kg/ m²

ACRYLIC/OPALINE PANEL:

- o Thickness: from 0.08" to 0.40" – standard 0.24" / from 2 mm to 10 mm – standard 5 mm
- o Maximum single panel size: 6.5' x 10' / 2000 mm x 3050 mm
- o Weight: 1.4 lb/ft² / 7 kg/m²

An extra ~0.12" (1 mm) thickness needs to be considered on top of the listed measures due to the epoxy resin layers applied.

THE PROCESS

- The images are digitally refined using graphic design software and photo retouching techniques.
- The finalized digital image is printed onto the support material using an inkjet process with UV-curable inks that dry instantly when exposed to ultraviolet rays.
- Then, the artistic result is achieved through a creative process where the designer manually applies acrylic paints (using varies techniques), followed by the addition of metallic powders, pigments and colors dissolved in alcohol.
- Finally, a bi-component self-leveling and solvent-free epoxy resin is applied.

The distinctiveness and value of these artworks stem from the personalized and handcrafted details incorporated into each individual piece.

FINISH AND TEXTURE

There are two options to choose from: **glossy** or **matte finish**, both of which enhance durability while preserving and reinforcing the underlying artistic layers.

Additionally, panels are offered in five distinct textures: **smooth, cratered, brush, dots** and **beads**, which enhance a stunning and unique 3D effect.

JOB SITE TWEAKS

The panels are cut to size and ready for installation, however adjustments can always be made on-site:

- o For clear cuts, we recommend using professional tools such as CNC router panel saw machine and laminate table saw with a fine-tooth blade.
- o For round cuts (e.g. to install fixtures or openings for pipes and lights), use a hole saw for metal or a drill with a standard bit to create smaller holes.

To prevent chipping or peeling, always make cuts on the back of the panel.

SET-UP PHASE AND INSTALLATION

The installation of the panels must be carried out by specialized personnel, such as marble workers, mosaic or tile installers.

For proper installation, the surface where the artwork will be mounted must be flat and free of bumps and uneven textures. Also, it is essential to ensure that the surface is clean, dry and free of grease.

If the artwork is being glued to a metallic surface, any oxidized or glossy layers must first be removed. This can be done by sanding the surface or using a degreasing solvent. For very smooth surfaces, sanding is necessary to improve adhesion.

When installing artwork onto walls made of plaster, gypsum, cement, marine plywood or in wet areas, we recommend waterproofing the surface with a sealant such as Mapegum WPS by Mapei or a similar product available on the market.

We recommend high-quality glues that are widely available, such as:

- Liquid Nails
- Pro-Series
- Simson Pro
- Bostik PanelTack

Alternatively, other equivalent glues can be used, provided they are certified for applications on surfaces subject to humidity and for internal use.

When applying glue, ensure it is spread evenly using a notched trowel. To secure the panel in place, apply gentle pressure using your hands.

AFTERCARE

For daily cleaning, glass cleaners (neutral and without ammonia) and a microfiber cloth are ideal in order to avoid damaging the surface. Also, harsh chemicals, bleach or thinners should be avoided.

Approximately 12-18 months after installation, we recommend treating the surface with a protective wax or polish to maintain its shine.

Apply all recommended products gently and carefully.

All components used in the production of the panels, are supplied with the relevant certifications and comply with applicable industry standards.