



ELITEAZURE

Technical Bulletin Manufactured Travertine Thin Stone Veneer Panels

Prepared for Architects, Interior Designers, Building Envelope Consultants and Specification Writers.

Product Overview

EliteAzure Travertine Thin Stone Veneer Panels are lightweight, non-structural architectural finish panels manufactured from natural stone powder, quartz sand, natural clay, a 100% pure acrylic polymer binder and alkali-resistant fiberglass mesh reinforcement. The 1/8 in. (3 mm) panels are intended for installation over code-compliant wall assemblies to provide the appearance of monolithic travertine while reducing weight and installation complexity.

Why the Material System Matters

Component	Contribution to Performance
100% Pure Acrylic Polymer	Excellent UV stability, humidity resistance, salt-spray resistance, flexibility and long-term weatherability.
Natural Stone Powder & Quartz	Hardness, dimensional stability and authentic mineral appearance.
Natural Clay	Supports texture and mineral composition within the composite.
Fiberglass Mesh	Improves tensile strength, crack resistance and dimensional stability.

Coastal Performance – Miami & Marine Environments

Based on the described formulation, the acrylic-mineral composite is well suited for humid coastal climates. Pure acrylic binders are widely used in exterior architectural coatings because of their resistance to ultraviolet exposure, salt-laden air and moisture. Proper drainage, substrate preparation and installation remain essential to long-term system performance.

Efflorescence

Unlike Portland cement-based manufactured stone, the panel itself has a low potential to generate efflorescence because its primary binder is an acrylic polymer rather than cement. Any efflorescence observed on a completed

wall is more likely to originate from cementitious mortars, grout, concrete or masonry within the wall assembly rather than the panel itself.

Independent ASTM Material Testing

Standard	Purpose	Result
ASTM C880	Flexural Strength	Great mechanical performance under bending.
ASTM C297	Flatwise Tensile Bond Strength	Great internal bond integrity and resistance to delamination.
ASTM C484	Thermal Shock	Great resistance to repeated temperature cycling.

Wind Load Clarification

The 1/8 in. veneer panel is a non-load-bearing architectural finish and is not intended to resist structural building loads. Wind resistance for exterior applications is evaluated as the performance of the complete adhered wall assembly—including substrate, attachment system, adhesive or mortar and veneer—not the finish panel alone. The completed ASTM C880, C297 and C484 testing demonstrates material durability and bond performance but does not replace assembly-specific wind-pressure testing where required by the project or authority having jurisdiction.

Specification Guidance

- Specify as a non-structural architectural adhered veneer.
- Install only over code-compliant wall assemblies.
- Follow project-specific moisture management and drainage details.
- Where required, evaluate wind performance for the complete installed assembly rather than the panel alone.

Technical Summary

Property	Assessment
UV Resistance	Excellent (100% pure acrylic binder)
Salt-Air Resistance	Excellent when properly installed
Humidity Resistance	Excellent
Panel Efflorescence Risk	Low (non-cement primary binder)
Application	Interior & Exterior Architectural Finish
Structural Function	Non-structural decorative veneer

Professional Note: This bulletin describes the material characteristics of the panel formulation and summarizes available ASTM material testing. Performance claims for complete wall assemblies should be supported by project-specific installation details and any additional assembly testing required by the applicable building code.