What is StoneLite™
And Why Is It Better Than Dimensional Stone Cladding?

Stone Panels, Inc. originated and pioneered the unique manufacturing process that has established StoneLite™ as the world leader in natural stone wall cladding. This innovative process has resulted in StoneLite™ providing exceptional benefits over dimensional stone:

• **Lightweight**
  StoneLite™ weighs 80% less than solid 3 cm dimensional stone, and 95% less than solid 4 in. limestone, making it easier and faster to install.

• **Superior Strength**
  StoneLite™ has a proven capacity to withstand seismic racking shear load and lateral displacement without panel damage, as well as able to withstand large missile impact and dynamic hurricane loading.

• **Durable**
  StoneLite™ meets or exceeds rigid fire test criteria and air-water infiltration limits.

• **Natural Beauty**
  Choose from any authentic
  • Granite
  • Limestone
  • Marble
  • Sandstone

StoneLite™ panels are quickly and easily installed without the need for expensive lifting equipment or specialized labor.

Natural Stone Beauty Made Stronger & Lighter

Build With A Stone Made To Last

StoneLite™ panels are composite wall panels made up of a revolutionary natural stone veneer reinforced with an aluminum honeycomb backing. The stone veneer can be almost any stone, including granite, marble, limestone and sandstone.

Tough, durable StoneLite™ panels can resist up to 60 times more impact than solid 3 cm thick granite. The aluminum honeycomb-reinforced panels keep the beauty of natural stone and eliminate its fragile, brittle properties.

StoneLite™ has been subjected to, and has passed numerous independent severe structural tests following accelerated aging, large-scale fire tests, large missile impact tests and simulated dynamic hurricane loading.

StoneLite™ is impervious to water penetration. The fiber-reinforced epoxy skin, directly behind the stone, provides a moisture barrier.

Less Weight Means Saving Time And Money

StoneLite™ weighs only 3.3 lbs./sq. ft. (16 kg/sq. m.), about the same as 1/4-inch (6 mm) thick glass. This weight savings allows for installation 10 – 12 times faster than dimensional stone cladding, saving both time and money.
Exterior Cladding – Superior Design From The Outside-In
Increase Design Options, Decrease Construction Time

For exterior cladding projects, StoneLite® offers a wide range of advantages over dimensional stone:

• Increased Design Flexibility
• Construction Speed
• Overall Project Cost-Effectiveness

The lightweight StoneLite® panels are easy to handle, so an entire building elevation can be laid out in advance and arranged for blending color and character of the natural stone prior to fabrication and installation.

Designed To Be Stronger

With more than 37 years of proven performance on building exteriors around the world, StoneLite® preserves the beauty of natural stone while eliminating its fragile, brittle and variable properties.

StoneLite® panels are proven through independent laboratory testing:

• **Impact Resistance** – Resisting large missile impact and 1,342 repetitions of simulated dynamic hurricane loading.
• **Flexural Strength** – Ideal for seismic zones, StoneLite® has been tested and proven in application for flexural strength – even following rigid acid freeze-thaw and UV radiation exposure.

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**University Square**
West Windor, New Jersey

New York based RexCorp Realty has clad the exteriors and interiors of their buildings with StoneLite™ panels since 1997. University Square, located in West Windsor, NJ, defines the next generation of Class-A office properties. The combination of polished and sandblasted Rosa Porrino granite panels were factory pre-panelized by Stone Panels, Inc. for increased construction speed.

“We have specified StoneLite™ natural stone panels and worked with the company for the past 10 years. StoneLite™ provides us with the aesthetic beauty of authentic natural stone and, at the same time, offers us a significant benefit in speed of construction on our projects. They are responsive to our needs and stand behind their work.”

John Olesuk, VP Construction
RexCorp Realty

**Bank of Elgin**
Elgin, Illinois

StoneLite™ panels can be economically fabricated to form complex natural stone shapes such as the massive limestone cornices for the Bank of Elgin. These StoneLite™ cornices were factory assembled and shipped to the job site for a simple cost saving installation.

Mayes Architects

**Banco Popular**
San Juan, Puerto Rico

High strength StoneLite™ granite panels were specified by CDC Curtain Wall Design & Consulting for the re-clad of this 20-story building because StoneLite™ was capable of meeting the 189 lb. per sq. ft. wind load and hurricane large missile impact requirements.

Sierra Cardona Ferrer
Renovate With The Natural Beauty Of StoneLite™

StoneLite™ panels are an economical choice for renovation.

• **Increase Building Revenue** — Upgrading a building by adding a natural stone finish increases both lease and occupancy rates, providing a quicker return on investment.

• **Reduced Structural Requirements** — StoneLite™ can be installed without reinforcing the building structure. StoneLite™ panels can be attached to the existing back-up system, saving thousands of dollars.

• **Eliminate Disposal Expenses** — Overcladding a deteriorated exterior by anchoring StoneLite™ panels through the original cladding and into existing back-up eliminates removal and disposal expenses.

• **Maintain Building Occupancy** — The interior spaces are not subjected to detrimental weather conditions, so building occupants need not relocate and the building continues to produce maximum revenue.

▲ Barclay Tower (above and cover)
**New York, New York**

Glenwood Management selected the StoneLite™ system for this ultra-luxury rental property in the Manhattan Financial District. The StoneLite™ Indiana limestone panels were fabricated with reveals on lower levels, ornate limestone cornice at level 8 and limestone column covers & pilasters for the hi-rise floors. Working with their architect, Costas Kondylis & Partners, the StoneLite™ system was specified for its unique flexibility in providing large massive, yet lightweight, 3-dimensional shaped natural stone panels.

“The StoneLite™ system allowed us to realize the design intent for the building while completing the exterior façade significantly faster than would have been possible with solid dimensional stone. We are quite pleased with the result.”

Sal Puccio, VP Construction, Glenwood Management Corp.

▲ Ten High Street Office Building
**Boston, Massachusetts**

“StoneLite™ panels were the perfect solution for replacing a failing brick façade on this high-rise historical building. The owner, Boston Federal Associates, considered replacing the brick with solid granite, but StoneLite™ panels solved the problems of limited space and weight.

“Stone Panels Inc. was responsive to our needs, and they met our budget and aesthetic goals with a beautiful engineered product.”

Gene Racek
E.R. Racek Associates

▲ Meridian Plaza
**Sacramento, California**

StoneLite™ Teakwood sandstone panels were selected for incorporation on this post-modern structure for their beauty, seismic capabilities, project structural savings and overall product life cycle value.

Berger + Worstell Architects

1.800.328.6275 • 469.635.5000 • www.stonepanels.com
StoneLite™ – Your Solution For Stone Interiors

StoneLite™ panels are an exceptional cladding solution for lobby walls, ceilings and reception areas.

- **Easy, Fast Installation** – The impact resistant lightweight stone is easy to handle and does not require heavy lifting equipment. StoneLite™ panels are installed using simple carpentry tools and are easily field cut with a portable saw having a dry-cut diamond blade.

- **Design Flexibility** – Choose from a wide range of authentic natural stones and large-sized panels.

- **Increase Building Revenue** – The added value of maintenance-free authentic natural stone enhances property aesthetics and elevates occupancy demand.

- **Reduced Occupant Disruption** – StoneLite™ can be installed in an occupied building with minimal disruption to its occupants.

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**U.S. Courthouse & Federal Building Sacramento, California**

The combination of natural StoneLite™ panels, state-of-the-art computer aided design and CNC equipment made possible the creation of this rotunda. 10,000 varying sized oblique and trapezium shapes were produced to exacting specifications and then attached to the ever-changing sloping walls within this elliptic radius room.

Nacht & Lewis Architects

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**Gallup University Omaha, Nebraska**

The warm tone of limestone from the Savoy region of France helped create a dramatic statement on both the interior and exterior of this Atrium feature wall. The 2'-8" high x 4'-4" wide modules set in a coursed pattern lends a traditional element to this modern 3-story facility on the banks of the North Platte River.

Gensler
Elevate The Aesthetics Of Your Project

StoneLite™ is the global choice for the beauty of authentic natural stone in elevators, marine craft and aircraft in both new construction and renovation.

• **Lightweight** – Weighing 80 percent less than dimensional stone, StoneLite™ allows for natural stone to be used in applications that would otherwise be impractical or impossible!

• **Impact Resistance** – StoneLite™'s high impact resistance virtually eliminates elevator damage from carts, moving and vandalism.

• **Flexural Strength** – StoneLite™ panels can be flexed without cracking or breaking, giving them the unique ability to withstand the racking movement encountered in elevator cabs and on cruise ships, yachts and aircraft.

*Supreme Court Building*
Seoul, South Korea
Puchon granite slabs, quarried less than 50 miles from the project site, were shipped to the Stone Panels, Inc. factory in Texas for conversion to StoneLite™ panels. A connection system was also factory attached to provide ease of installation on the ceiling and returned to South Korea for application to the building.

*685 Market Street*
San Francisco, California
Colorado Yule & Nero Marquina

*Caesars Palace*
Las Vegas, Nevada
Rosso Laglana & White Carrara

*One Canal Plaza*
New Orleans, Louisiana
Gris Tepeaca & Absolute Black
PRODUCT DATA

Average Panel Weight:
3.3-lbs./sq. ft. (1.6-kg/sq. m.)

Standard Panel Thickness:
15/16” (24 mm)
& 9/16” (14 mm)
Other thicknesses available

Standard Panel Size:
4'- 0” x 8'- 0” (1.2 m. x 2.4 m.)

Maximum Panel Size:
5'- 0” x 10'- 0” (1.5 m. x 3.0 m.)
Limited availability

Tolerance for Thickness, Length, Width & Squareness:
± 1/16” (1.6 mm)

EVALUATION REPORTS/ CODE ACCEPTANCE

ICC Research Report PFC 4397
City of Los Angeles
Report RR 24922
City of San Francisco
Code Ruling
BC-105-3
City of New York MEA 373-87-M
Miami-Dade County, Florida
NOA No. 02-1104.11
British Board of Agrément
Certificate Number 07/4466
French Avis Technique C.S.T.B.
No. 2/06-1210

SPECIFICATIONS

Guide Specification Sections:
04 42 00 Natural Stone Honeycomb
Reinforced Wall Cladding System &
07 42 00 Natural Stone Honeycomb
Reinforced Wall Panel System

INSTALLATION

StoneLite® panels may be attached using mechanical anchors and clips, or attached to approved substrates using adhesive.

TESTING

Our StoneLite® panels meet rigid performance criteria verified by independent laboratory testing.

• Acid Freeze-Thaw: Minimal strength loss following 100 cycles in 4pH sulfuric acid +170°F to -10°F (+77°C to -23°C).

• UBC 17- 6 Multi-Story Fire Evaluation: All criteria achieved.

• ASTM E - 84 Fire Test: Flame Spread Index = 5, Smoke Developed = 5, Class A (NFPA Std.): Class I (UBC Std.).

• Resist 30 minute modified ASTM E-108 Fire Evaluation.

• Uniform (wind load) tested to over 400 lbs./sq. ft. (19 kN/sq. m.).

• Flatwise bond capacity exceeds 55,000-lbs./sq. ft. (2,600-kN/sq. m.) following accelerated aging.

• Withstood over 5,500 lbs. (2,500 kg) seismic racking shear load and over 2-1/2” (63 mm) lateral displacement without disengagement nor panel damage.

• ASTM and AAMA air, water and dynamic water penetration tests: All criteria achieved.

• Hurricane Loading: Passed large missile impact at 50 ft./second (15 m./s.) and 1342 repetitions of positive and negative wind loading.

• Acid Freeze-Thaw & UV Radiation: Averages only 6% strength loss following 200 cycles exposure.

TECHNICAL CONSULTING

Contact your Regional Technical Consultant for product, details, pricing, testing and/or installation information.