



LIBUSUN FLEXIBLE STONE

& ARCHITECTURAL SURFACE COLLECTIONS

ARCHITECTURAL SPECIFICATION SHEET

⌘ PRODUCT NAME



PRODUCT NAME	LIBUSUN Flexible Stone & Architectural Surface Collections
PRODUCT CATEGORY	Architectural Surface Systems - Flexible Mineral-Based Architectural Cladding Panels (MCM Flexible Stone Technology)
BRAND	LIBUSUN Architectural Surface Systems

⌘ PRODUCT DESCRIPTION

LIBUSUN Architectural Surface Systems are lightweight architectural wall cladding solutions, designed for exterior and interior wall applications.

The system is engineered to replicate the appearance, texture, and visual depth of natural stone while significantly reducing structural load, transportation weight, and installation complexity.

Manufactured using advanced mineral-polymer technology, LIBUSUN Flexible Stone Panels combine natural aggregates, mineral powders, and polymer binders to create durable, weather-resistant architectural surfaces suitable for both new construction and renovation projects.

The material is suitable for flat, curved, and complex architectural surfaces and may be installed on a variety of approved substrates.

⌘ COLLECTIONS COVERED

This Specification Sheet applies to LIBUSUN Flexible Stone & Architectural Surface Collections intended for interior and exterior applications.

EXTERIOR COLLECTIONS

- Travertine Core Collection
- Limestone / Concrete Modern Collection
- Slate Accent Collection
- Marble Design Collection
- Granite / Dacite Universal Collection

EXTERIOR COLLECTIONS

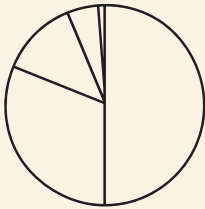
- Architectural Concrete Collection
- Art Stone Collection
- Quartzite / Onyx Accent Series
- Textured Marble Panels
- Architectural Limestone & Travertine Collection
- Core Marble & Limestone Collection
- Architectural Color Surfaces
- Universal Stone Selection



⌘ MATERIAL COMPOSITION

TYPICAL COMPOSITION

Natural Colored Sand	Approximately	50%
Mineral Stone Powder	Approximately	30%
Silicone Polymer Emulsion Binder	Approximately	15%
Water	Approximately	5%
Performance Additives	Less than	1%



** Actual composition may vary slightly depending on design, texture, color, and manufacturing requirements.*

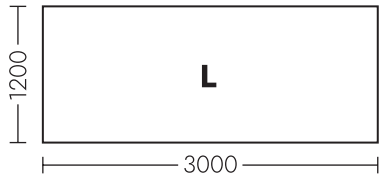
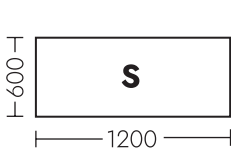
⌘ PHYSICAL CHARACTERISTICS

Thickness	Typical: 2–5 mm (0.08"–0.20")
Weight	Approximately 3–8 kg/m ²
Flexibility	High
Surface Finish	Textured mineral surface

Available Formats

600 × 1200 mm (24" × 48")
1200 × 2400 mm (48" × 96")
1200 × 3000 mm (48" × 118")

** Custom dimensions available upon request.*



Nominal dimensions. Tolerance ±2 mm.

⌘ KEY PERFORMANCE FEATURES

- Lightweight construction
- Flexible panel technology
- Natural stone appearance
- Weather resistant
- Water resistant
- Freeze-thaw resistant
- UV resistant
- Impact resistant
- Breathable
- Easy to cut and fabricate
- Easy to install
- Suitable for curved surfaces
- Low maintenance
- Environmentally responsible material system

⌘ DESIGN ADVANTAGES

LIBUSUN Flexible Stone Panels provide architects and designers with the visual appeal of natural stone while reducing the challenges associated with traditional stone cladding systems.

ADVANTAGES INCLUDE:

- Reduced structural load
- Simplified transportation and handling
- Faster installation compared to traditional stone
- Suitable for renovation and retrofit projects
- Large-format architectural surfaces
- Ability to wrap columns, arches, and curved walls
- Broad range of textures and finishes
- Consistent appearance across large project areas



⌘ APPLICATIONS

EXTERIOR APPLICATIONS

- Building facades
- Hospitality projects
- Hotels and resorts
- Multifamily developments
- Residential villas
- Commercial buildings
- Architectural feature walls
- Entrance structures
- Exterior decorative elements

INTERIOR APPLICATIONS

- Lobby walls
- Reception areas
- Restaurants
- Hotels
- Retail environments
- Showrooms
- Residential feature walls
- Amenity spaces
- Decorative architectural surfaces

⌘ COMPATIBLE SUBSTRATES

EXTERIOR APPLICATIONS

- Concrete
- Masonry
- CMU block walls
- Fiber cement board
- Cement backer board
- Cement render systems
- Approved exterior wall systems

INTERIOR APPLICATIONS

- Gypsum board
- Cement board
- Plywood
- MDF (dry areas only)

**Substrates must be structurally sound, clean, dry, level, and properly prepared before installation.*

⌘ SYSTEM COMPONENTS

RECOMMENDED LIBUSUN SYSTEM

Required Components

- LIBUSUN Flexible Stone Adhesive
- LIBUSUN Surface Panels

Optional Installation Components

- Suitable Primer (where required)
- LIBUSUN Premium Grout

Optional Protection

- LIBUSUN Stone Protection Sealer

⌘ INSTALLATION

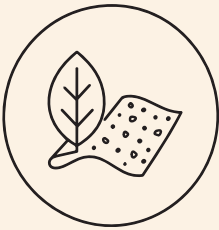
Install in accordance with the latest LIBUSUN Installation Guide.

Building movement joints and expansion joints shall remain functional and shall not be bridged by panel installation.

Project-specific substrate preparation, detailing, and installation requirements shall be determined by the project architect, engineer, and installer.

⌘ ENVIRONMENTAL CHARACTERISTICS

- ✓ Mineral-based material system
- ✓ No added formaldehyde
- ✓ Low VOC potential
- ✓ Lightweight construction reduces transportation impact
- ✓ Suitable for sustainable building initiatives
- ✓ Designed as an alternative to traditional natural stone systems

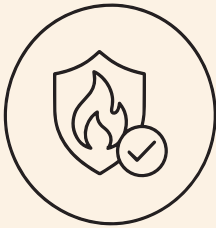




⌘ FIRE PERFORMANCE

Fire testing documentation and project-specific compliance information are available upon request.

All local building codes, fire regulations, and project requirements shall be verified prior to specification and installation.



⌘ STORAGE AND HANDLING

Store panels flat in a clean, dry environment.

Protect materials from:

- ✗ Standing water
- ✗ Excessive moisture
- ✗ Direct sunlight during storage

- ✗ Physical damage
- ✗ Extreme temperatures

** Handle carefully to prevent edge damage.*

⇒ WARRANTY

Project-specific warranty information is available upon request.

Warranty coverage is subject to approved installation methods, substrate suitability, project conditions, and environmental exposure.



DESIGNED *FOR*
MODERN ARCHITECTURE.

BUILT *FOR*
PERFORMANCE.