ARTCH

Refined Nature

Engineered Mineral Surface



Light & Thin

Up to 12 times lighter than natural stone



Kaolin Blend

High-purity cosmetic-grade kaolin.



Designed for Curves

Offers a minimum bending radius of 200 mm



Highest Fire Protection

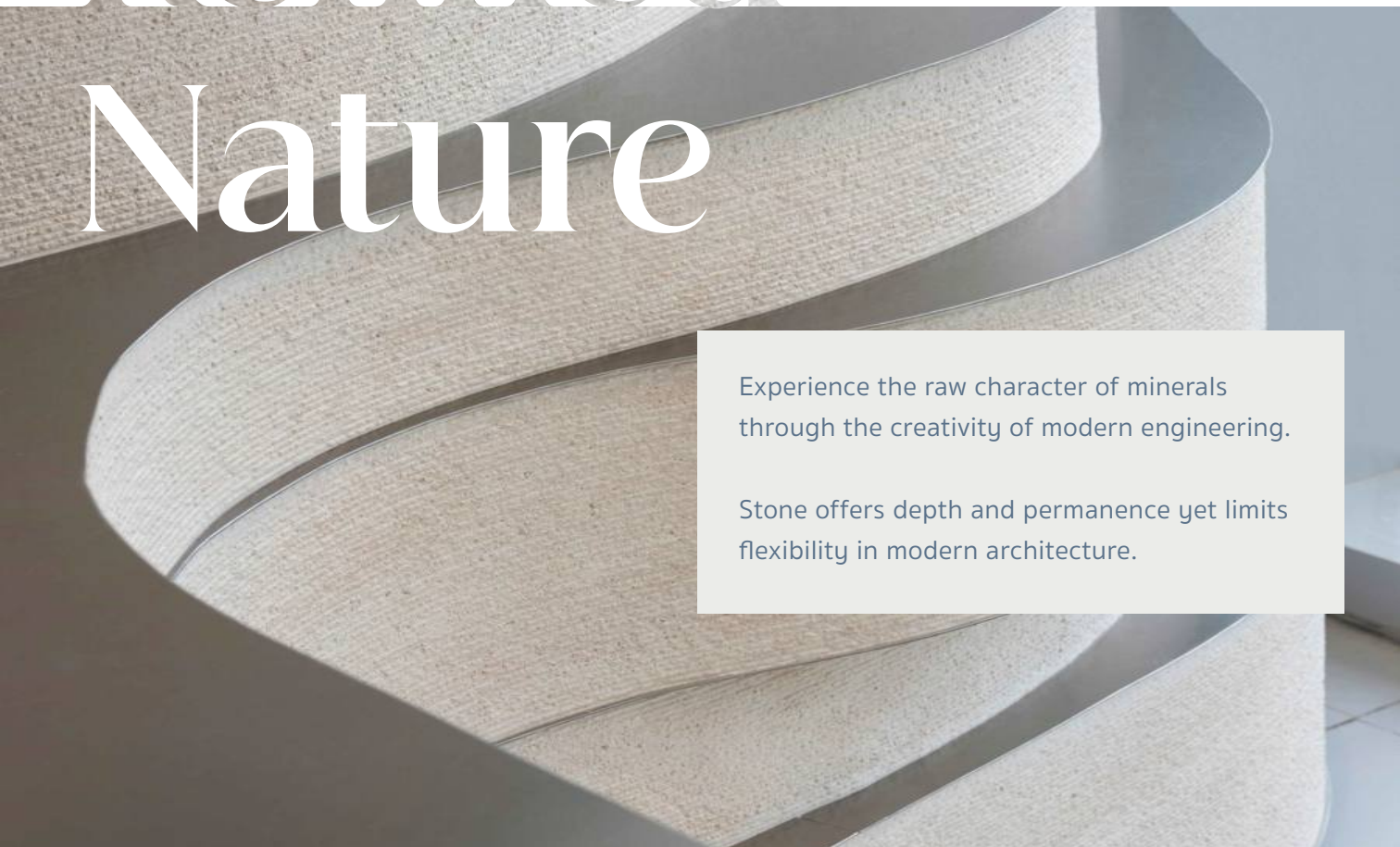
Class A top-rated resists flames & smoke for safer living spaces



Engineered Mineral Surfaces

ARTCH redefines what stone can be, bringing ***stone's presence beyond stone's limits.***

Refined Nature



Experience the raw character of minerals through the creativity of modern engineering.

Stone offers depth and permanence yet limits flexibility in modern architecture.

The Design Language of ARTCH

The signature ***DNAs of ARTCH*** are meticulously crafted from their mineral origins.

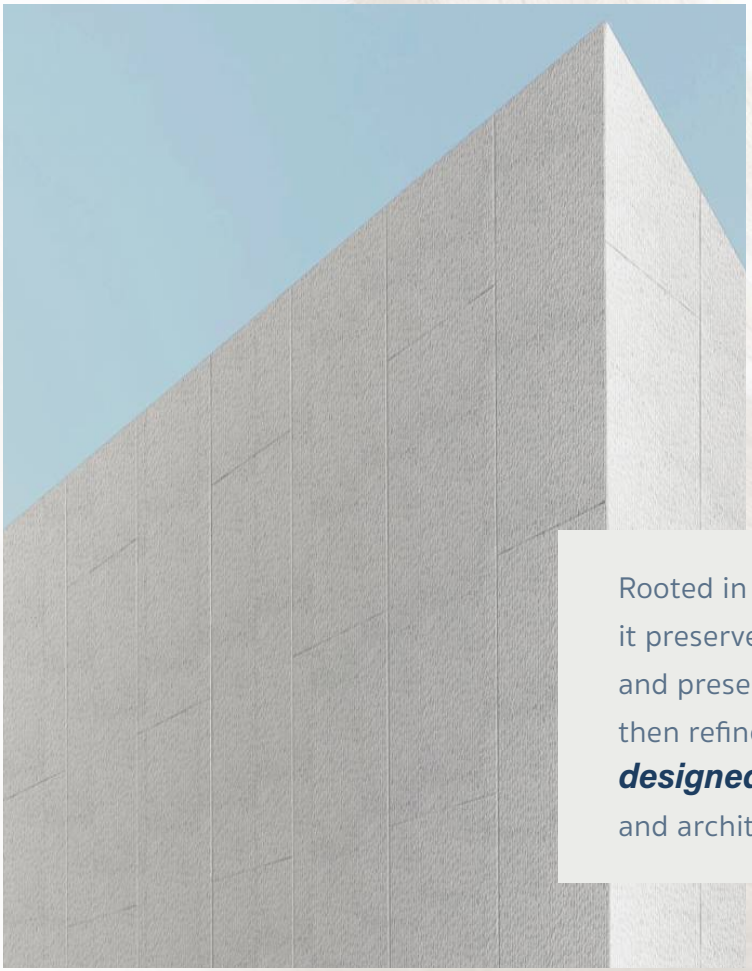
Inspired by the natural dialogue between mountain, sea, and sky.



ARTCH translates nature's quiet depth into a refined palette of ***atmospheric blues, mineral greys, and soft earth tones.***

ARTCH embodies Refined Nature.

ARTCH reinterprets nature
through ***Art and Architecture.***



Rooted in mineral origin,
it preserves the depth, texture,
and presence of natural minerals
then refines them into ***a lightweight surface designed for curves, creative forms,***
and architecture beyond limits.

Precision begins with Kaolin



It begins with the selection of true minerals cosmetic-grade Kaolin, refined for purity.

Unlike conventional clay, Kaolin's purer, finer, and more stable mineral structure helps control texture, color, bonding, and performance from the core delivering **fade-resistant color and fire-safe confidence.**







IT IS MINERAL ARCHITECTURE

Color and Safety built from mineral



Color begins with mineral-based ink
not synthetic surface coating.
Naturally durable pigments support better fade resistance over time.

Fire safety begins with inorganic minerals
not PVC-heavy layers
or glue-first construction
that can become points of flame spread.



Lasting color.
Fire-safe confidence.
Built from minerals.

Structure Layers





1. Mineral-Based Ink

Its surface color is printed with mineral-based ink, supporting better UV stability.

2. Kaolin-Based Core

Non-fired mineral core with Kaolin and mineral aggregates for strength, flexibility, and crack resistance.

3. Reinforced Backing

Enhances structural stability and impact resistance.

Kaolin is more than a raw material. Together with Quartz, mineral binder, and natural pigments, it forms the structural intelligence behind every ***ARTCH surface.***

Naturally refined

Lightweight yet durable

Flexible yet stable

Product Features

Performance Driven by Mineral Composition

SURFACE & AESTHETICS

Authentic Mineral Texture
A refined surface character developed from high-quality Kaolin and mineral-based color for a natural, premium expression.

Mineral Color Stability
Mineral-derived pigments support stronger UV stability and reduced fading over time.

Custom Surface Development
Adaptable in color, texture, and material composition for concept-driven spaces.

WEATHER & MOISTURE PERFORMANCE

Water & Moisture Resistance
Designed for wet and high-humidity areas such as bathrooms, spas, and water-feature zones.

Breathable Moisture Control
Allows vapor to pass through, helping reduce moisture accumulation behind the surface.

Custom Surface Development
Adaptable in color, texture, and material composition for concept-driven spaces.

LONG-TERM APPEARANCE

UV & Aging Resistance
Helps maintain surface integrity in areas exposed to sunlight, such as balconies and exterior walls.

Surface Durability
Engineered mineral composition supports long-term surface stability, helping maintain appearance under daily use and environmental exposure.

FIRE & SAFETY

Mineral-Based Fire Performance
Fire behavior is supported by inorganic mineral composition, reducing reliance on combustible surface layers.

Class A Fire Performance
Engineered to enhance fire safety for architectural applications.

Custom Surface Development
Lightweight and stable to help reduce detachment risk and improve on-wall confidence.

MAINTENANCE & COMFORT

Low Maintenance Surface
Reduced dirt adhesion allows for easier cleaning and lower long-term maintenance effort.

Indoor Comfort
Low-emission mineral composition supports better indoor air quality and user comfort over time.



Material as a Creative Medium

Natural and recycled materials, reimagined as custom surfaces.

ARTCH enables the integration of natural and recycled elements, such as shell fragments, coffee grounds, and reclaimed materials, directly into the surface composition, allowing each project to develop its own material identity.

Natural Elements | Recycled Materials | Unique Textures | Custom Identity



Shell Fragments



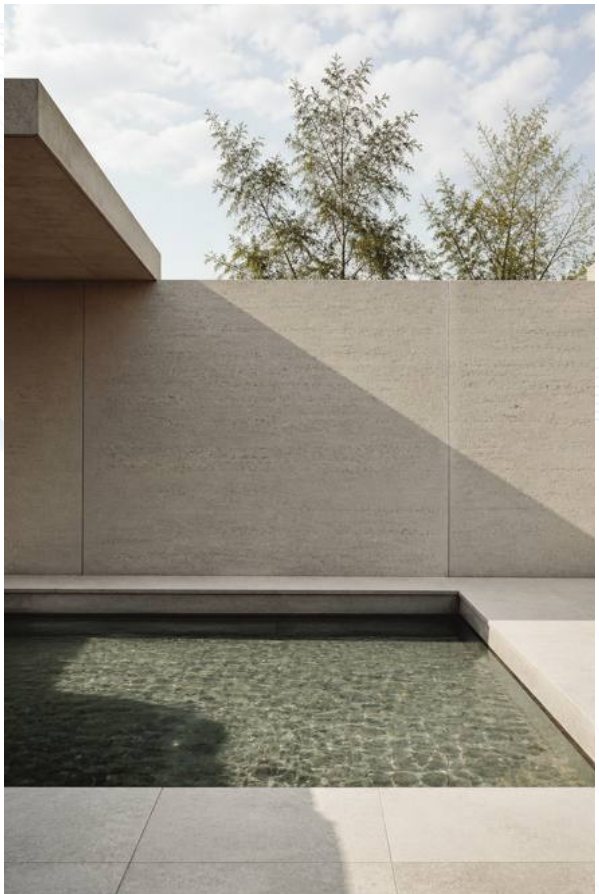
Coffee Grounds



Recycled Materials



Custom Surfaces



Internationally Patented

ARTCH is developed through patented engineered mineral surface technology not copied, not imitated, but created with protected material innovation.

- EU Invention Patent 2157139
- US Invention Patent US8,505,840 B2
- Chinese Invention Patent ZL 2009 1 0226004.0
- Design Patent ZL 2023 3 0440814.7

Globally Certified

- Singapore Green Label
- UL GREENGUARD Gold Certification
- CE Marking

Performance Verified

- Zero formaldehyde, TVOC, or heavy metals
- Non-toxic and non-carcinogenic
- Supports better indoor air quality
- 2,000-hour UV, heat, and humidity tested
- Longer service life than conventional coatings





Installation System

Designed for real architectural application.

Cement-based system (Recommended)

For optimal bonding strength and long-term durability.



Flexible Application

Adaptable across surfaces and project conditions.



Exterior Facade



Residential Decor



Interior Commercial



Moon Surface

DIMENSION (mm.)
600 x 1200 mm.
1200 x 2400 mm.

STRUCTURE
THICKNESS (mm.)
2-3(±1) mm.

WEIGHT
3.75 - 4 kg/m²

MMS05-2S
MMS05-2L

Stone Mist



Moon Surface is inspired by the uneven terrain of lunar landscapes,translated through a refined Travertine-like texture with subtle pores and horizontal patterns.

Warm beige and cream tones bring a calm, modern classic character, while the irregular surface adds natural depth and quiet sophistication.

A refined architectural surface with a composed, celestial presence.


Stone Mist


Aura


Frost White


Eclipse


Apollo


Golden Dust


Lunar Mist







Earth Canvas

DIMENSION (mm.)
1200 x 2400 mm.

STRUCTURE
THICKNESS (mm.)
2-3(±1) mm.

WEIGHT
3.75 kg/m²









Earth Canvas is inspired by raw layers of earth shaped over time,expressed through the look of rammed earth wall with subtle horizontal sediment patterns.

The surface is defined by mineral-like grains and composed irregularity, creating a warm, organic, and grounded character.

A refined architectural surface that reflects natural stability, modern sustainability, and sophisticated rawness.

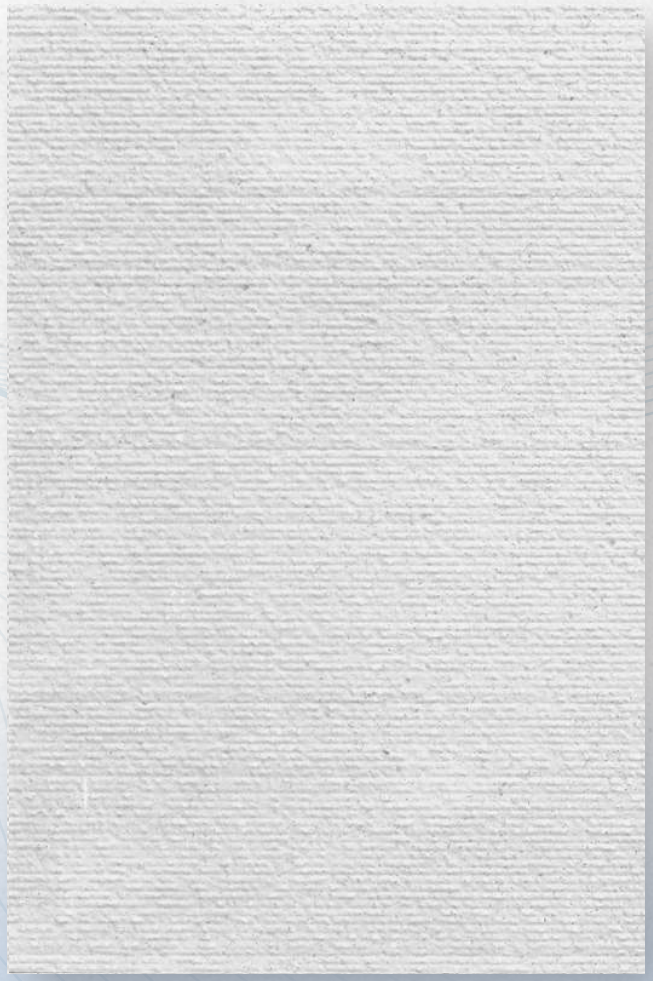
Rammed earth wall inspired texture.


Pure Chalk


Ash Core


Warm Earth


Ember



Linear Stone

DIMENSION (mm.)
1200 x 2400 mm.
600 x 1200 mm.

STRUCTURE
THICKNESS (mm.)
2-3(±1) mm.

WEIGHT
3.75 kg/m²

MLS01-3S
MLS01-3L

Ashline



MLS02-3S
MLS02-3L

Mistline



MLS03-3S
MLS03-3L

Snowline



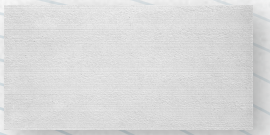
Linear Stone is inspired by the stratified formation of natural stone, expressed through raised linear ridges and controlled surface variation.

Its bas-relief texture adds depth and contrast, allowing light to catch the uneven surface and create shifting shadows.

A refined architectural surface that feels dynamic, dimensional, and visually engaging from every angle.



Ashline



Mistline



Snowline



Soft Strata

DIMENSION (mm.)
1200 x 2400 mm.

STRUCTURE
THICKNESS (mm.)
3-8 (±1) mm.

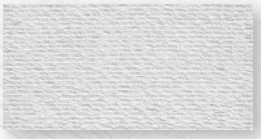
WEIGHT
5 kg/m²



Soft Strata is inspired by stone formed through layered geological processes, expressed through clean, continuous linear textures.

Refined linear textures create light and shadow across the surface, adding depth, order, and a calm architectural rhythm while enhancing the sense of height or spatial openness.

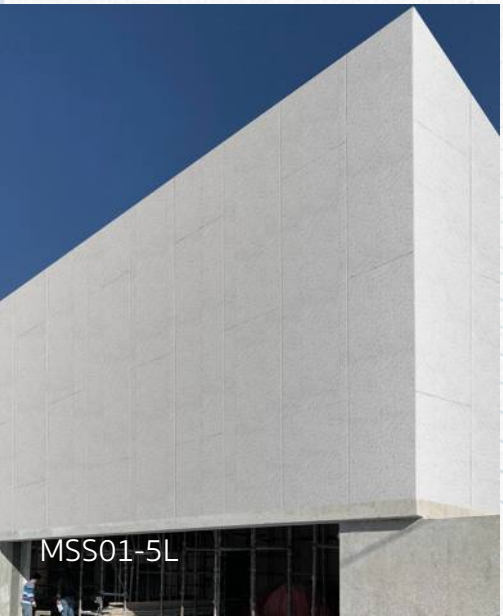
A refined architectural surface with a clean, sophisticated presence for modern minimal and Zen-inspired spaces.



Crystal

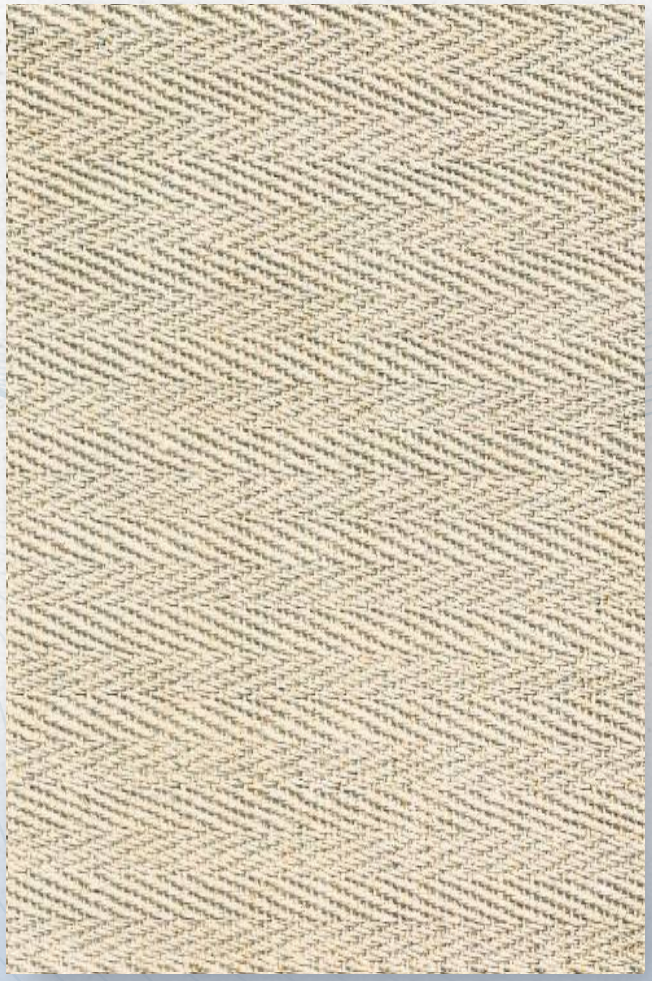


White Pearl









Warp & Weft

DIMENSION (mm.)
1200 x 2700 mm.

STRUCTURE
THICKNESS (mm.)
3-5(±1) mm

WEIGHT
6 kg/m²

Warp & Weft is inspired by the interlacing of woven natural fibers, expressed through a refined W-weave texture with subtle intersections and softened relief.

Its calm textile character and precise micro-texture create warmth, depth, and a quiet Zen-inspired presence.

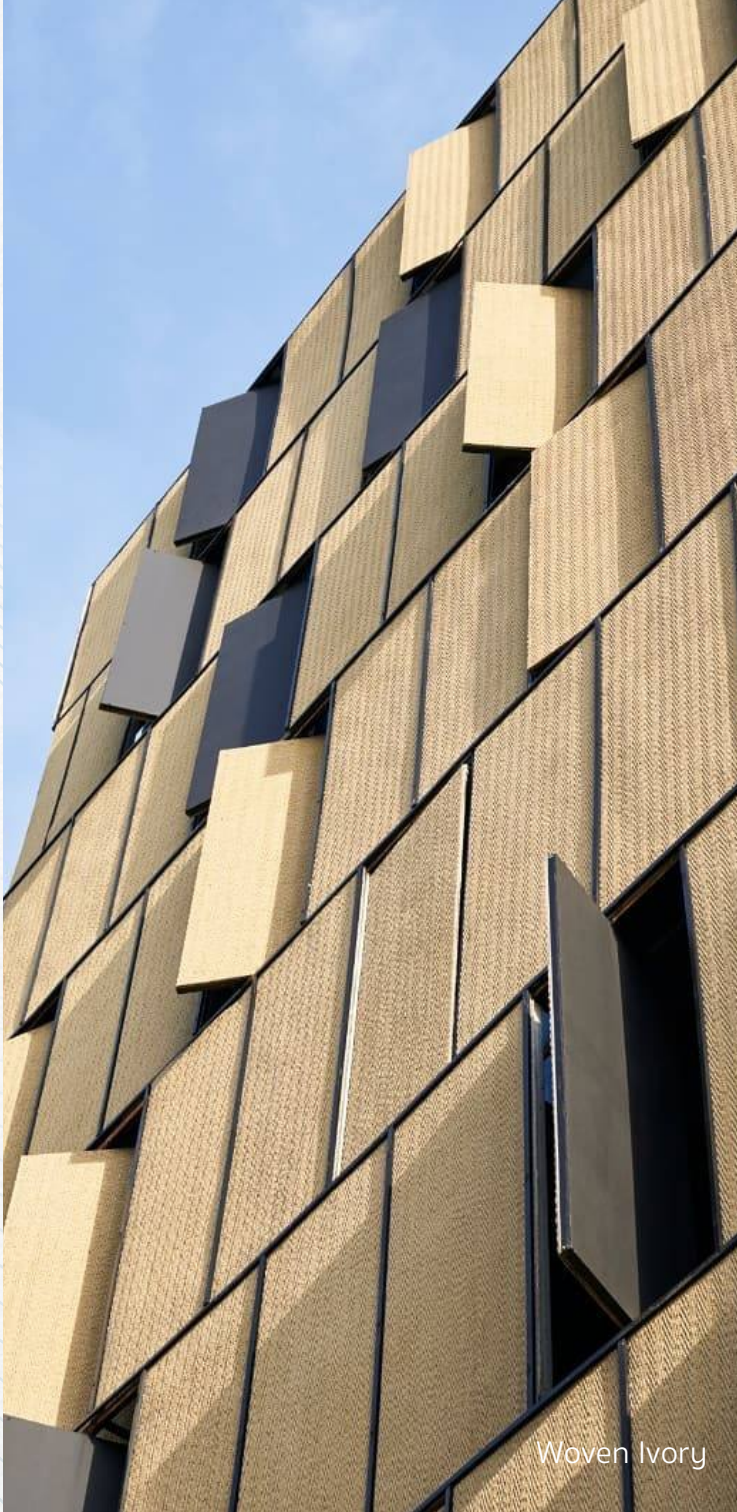
A refined architectural surface with a sophisticated woven expression and tactile dimensionality.



Woven Ivory



MWW01-5L



Woven Ivory



Alpine Mineral

DIMENSION (mm.)
600 x 1200 mm.
1200 x 2400 mm.

STRUCTURE
THICKNESS (mm.)
3-5(±1) mm.

WEIGHT
4.5 kg/m²







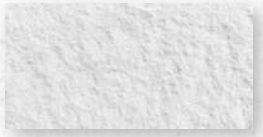
Alpine Mineral is inspired by mineral-rich alpine rock formations, expressed through the refined beauty of Montblanc marble with clean white tones and artistic grey veining.

Its elegant surface creates a pure, ultra-luxury character, bringing a striking wow factor to statement walls and high-end architectural spaces.

A refined architectural surface with a seamless slab-like presence, allowing large continuous installation with minimal joints for the look of a single stone piece.


Iron


Dolomite


Cloud White


Terra





Sedimentary Grain

DIMENSION (mm.)
1200 x 2400 mm.

STRUCTURE
THICKNESS (mm.)
2-3(±1) mm.

WEIGHT
2.5 kg/m²

Sedimentary Grain is inspired by sedimentary rock,expressed through soft fine-grained texturesshaped over time.

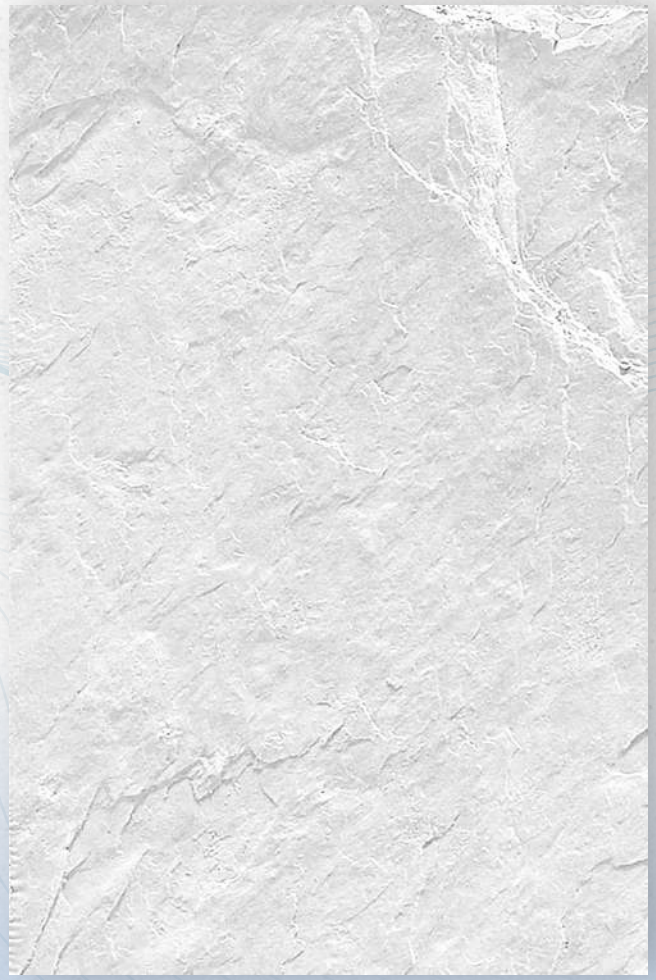
Its calm surface reveals delicate mineral grains up close, adding subtle depth with a clean, relaxing character.

A refined architectural surface that appears minimal from afar, yet reveals fine mineral depth up close.



Limestone





Glacial Hours

DIMENSION (mm.)
600 x 1200 mm.
1200 x 3000 mm.

STRUCTURE
THICKNESS (mm.)
2-3(±1) mm.

WEIGHT
2.5 kg/m²

MGH01-2S
MGH01-2L

Dawn



MGH02-2S
MGH02-2L

Dusk



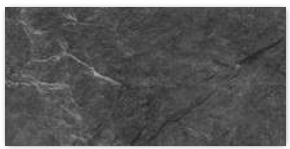
Glacial Hours is inspired by glacial landscapes, expressed through a slate-like surface with layered split-face texture.

Its roughness and tonal variation create natural stone depth with a strong, raw, and modern character.

A refined architectural surface shaped by time, ideal for feature walls and façade applications.



Dawn



Dusk



Mellow Weave

DIMENSION (mm.)
1200 x 2400 mm.

STRUCTURE
THICKNESS (mm.)
3-5(±1) mm.

WEIGHT
4 kg/m²

MMW01-3L Whisper Loom

Mellow Weave is inspired by hand-woven natural materials, expressed through a refined herringbone weave with gentle interlaced rhythms.

Its crafted texture reflects Eastern craftsmanship and warmth, bringing a calm, organic, and artful character to the surface.

A refined architectural surface with quiet woven elegance, ideal for Modern Zen and Tropical Luxury spaces.



Whisper Loom





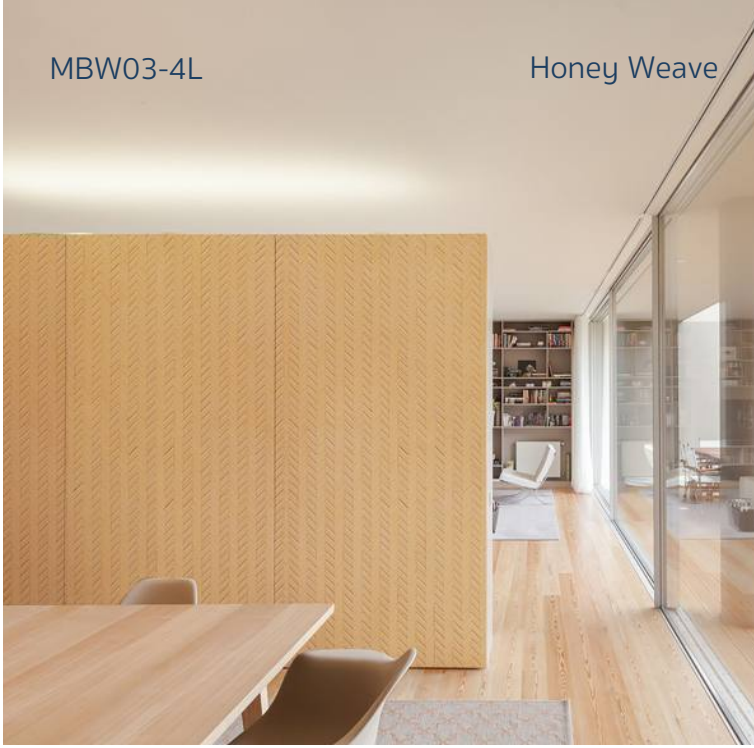
Bamboo Weave

DIMENSION (mm.)
1200 x 2700 mm.

STRUCTURE
THICKNESS (mm.)
3-5(±1) mm.

WEIGHT
6 kg/m²







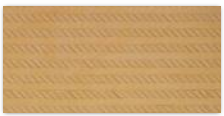
Bamboo Weave is inspired by bamboo weaving, expressed through layered bamboo-like forms and subtle diagonal rhythm.

Its natural texture creates a warm, calm, and refined Zen-inspired atmosphere.

A refined architectural surface that brings tropical serenity and oriental craftsmanship into modern spaces.


Ivory Weave


Ash Weave


Honey Weave



Dune Strata

DIMENSION (mm.)
1200 x 2800 mm.

STRUCTURE
THICKNESS (mm.)
3-5(±1) mm.

WEIGHT
5 kg/m²



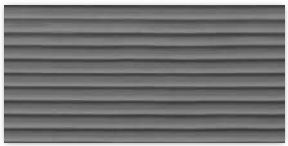
Dune Strata is inspired by sedimentary layers shaped by wind and water, expressed through soft flowing wave textures.

Its continuous rhythm creates a calm yet dynamic character, softening rigid architectural lines through organic movement.

A refined architectural surface ideal for Biophilic Design and nature-inspired spaces.

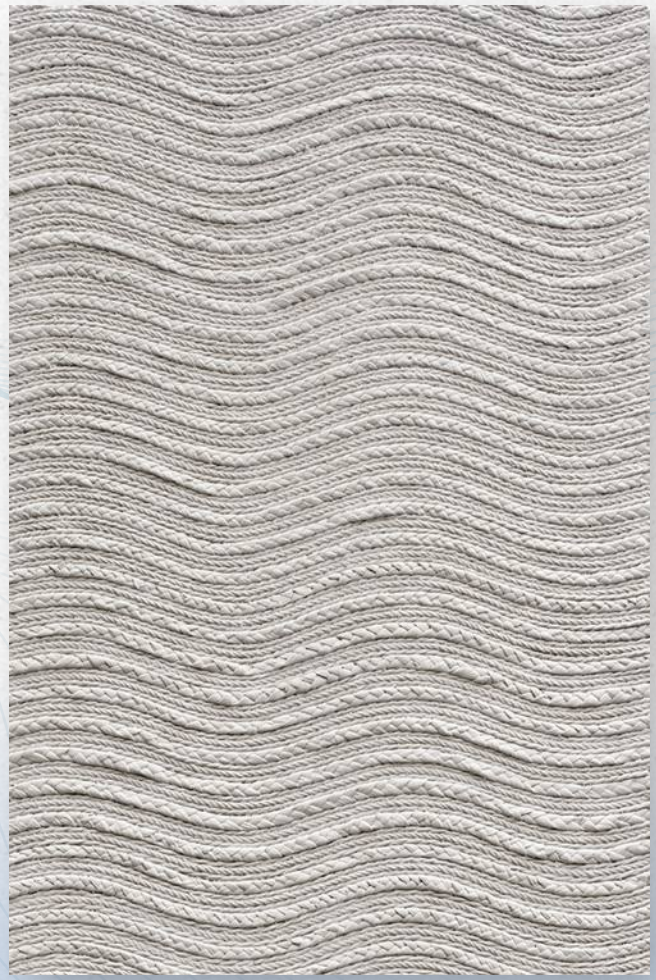


Sand Flow



Dune Shadow





Rope Vine

DIMENSION (mm.)
1200 x 2700 mm.

STRUCTURE
THICKNESS (mm.)
3-5(±1) mm.

WEIGHT
5 kg/m²



Rope Vine is inspired by the movement of coastal waves,expressed through flowing rope-like lines that rise and fall across the surface.

Its layered wave texture creates a soft sense of motion, adding tactile depth and a relaxed seaside rhythm to the wall.

A refined architectural surface with fluid rope detailing and quiet coastal movement.



Rope Vine MRV01-3L





Coral

DIMENSION (mm.)
1200 x 2700 mm.

STRUCTURE
THICKNESS (mm.)
3-5(±1) mm.

WEIGHT
5 kg/m²





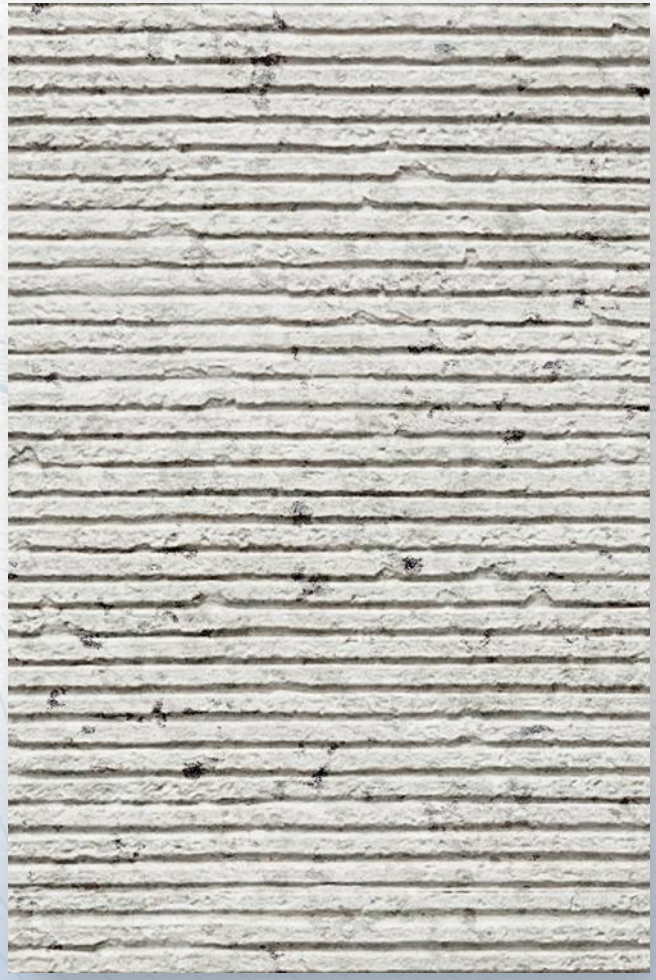
Coral is inspired by Nagasaki's coastal heritage, expressed through raised spiral patterns that echo hand-coiled rope and organic coral forms.

Its circular rhythm creates tactile depth, bringing warmth, softness, and a relaxed seaside character to the wall.

A refined architectural surface with sculptural rope detail and quiet Japanese coastal charm.



Coral MCR01-3L



Lava

DIMENSION (mm.)
1200 x 2800 mm.

STRUCTURE
THICKNESS (mm.)
3-5(±1) mm.

WEIGHT
6.25 kg/m²





Lava is inspired by volcanic stone shaped into layered horizontal grooves,expressed through a raw ridged texture with natural mineral specks.

Its fine carved lines and uneven stone surface create tactile depth, shadow, and a raw mineral character across the wall.

A refined architectural surface with rugged lava texture and composed geological detail.



Lava MLV01-5L





Onyx

DIMENSION (mm.)
1200 x 2800 mm.

STRUCTURE
THICKNESS (mm.)
3-5(±1) mm.

WEIGHT
6.25 kg/m²



Onyx is inspired by the rhythm of mosaic tiles and woven surfaces, expressed through square modules with alternating linear textures.

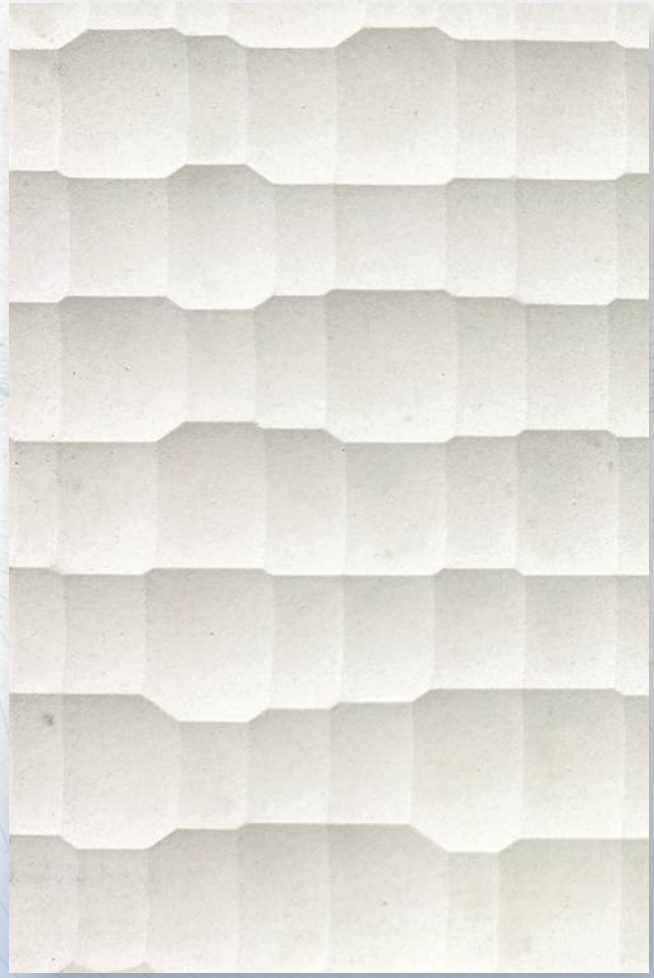
Its raised grid structure creates subtle light and shadow, adding crafted detail, order, and tactile depth to the wall.

A refined architectural surface with a clean tessera rhythm and contemporary woven character.



Onyx MON01-3L





Crystal Cube

DIMENSION (mm.)
1200x2800mm

STRUCTURE
THICKNESS (mm.)
2-3(±1) mm.

WEIGHT
5 kg/m²

Crystal Cube inspired by the rhythm of geometric forms,expressed through soft square facets with subtle dimensional shifts.

Its clean raised pattern creates gentle and shadow,bringing order, depth, and a refined modern character to the wall.

A refined architectural surface with crystalline geometry and quiet visual rhythm.



Crystal Cube MCC01-3L







Ocean Travertine

DIMENSION (mm.)

1200 x 2400 mm.

STRUCTURE

THICKNESS (mm.)

2-3(±1) mm.

WEIGHT

5 kg/m²





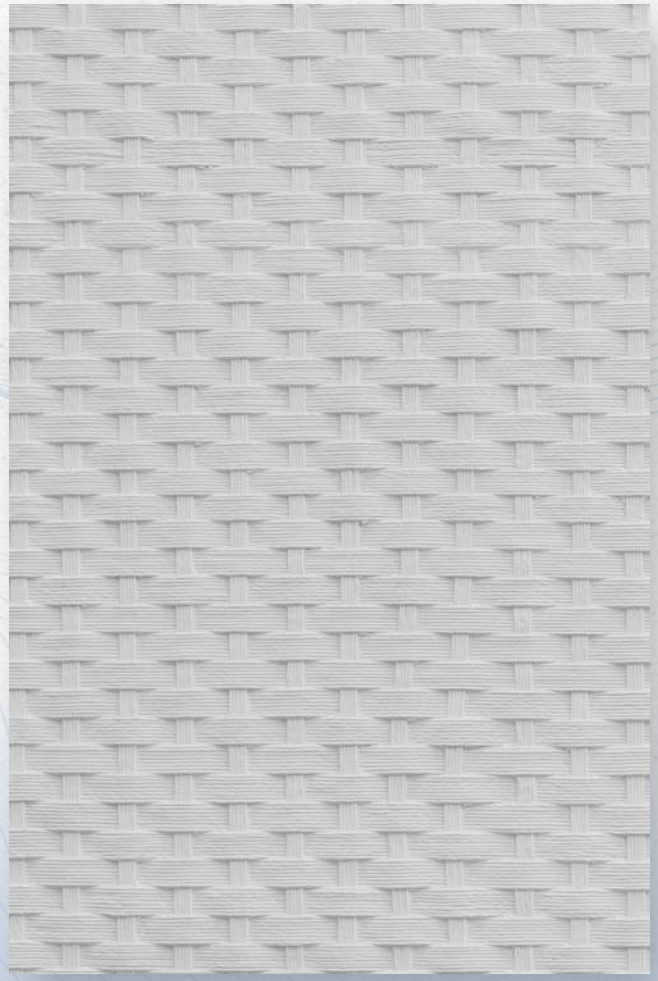
Ocean Travertine is inspired by coastal stone shaped by ocean movement, expressed through porous travertine textures and flowing mineral patterns.

Its soft blue-grey tone and natural surface variation create a calm, refreshing atmosphere with subtle seaside elegance.

A refined architectural surface with the serenity of ocean-worn stone and contemporary resort character.



Ocean Travertine MOT01-2L



Silk Weave

DIMENSION (mm.)
1200 x 2400 mm.

STRUCTURE
THICKNESS (mm.)
3-5(±1) mm.

WEIGHT
4 kg/m²

Silk Weave is inspired by the refined artistry of Lingnan decorative craft, where woven patterns are shaped with balance, softness, and cultural detail.

Its raised lattice texture brings a sense of handcrafted depth,like light passing across layered silk and carved oriental screens.

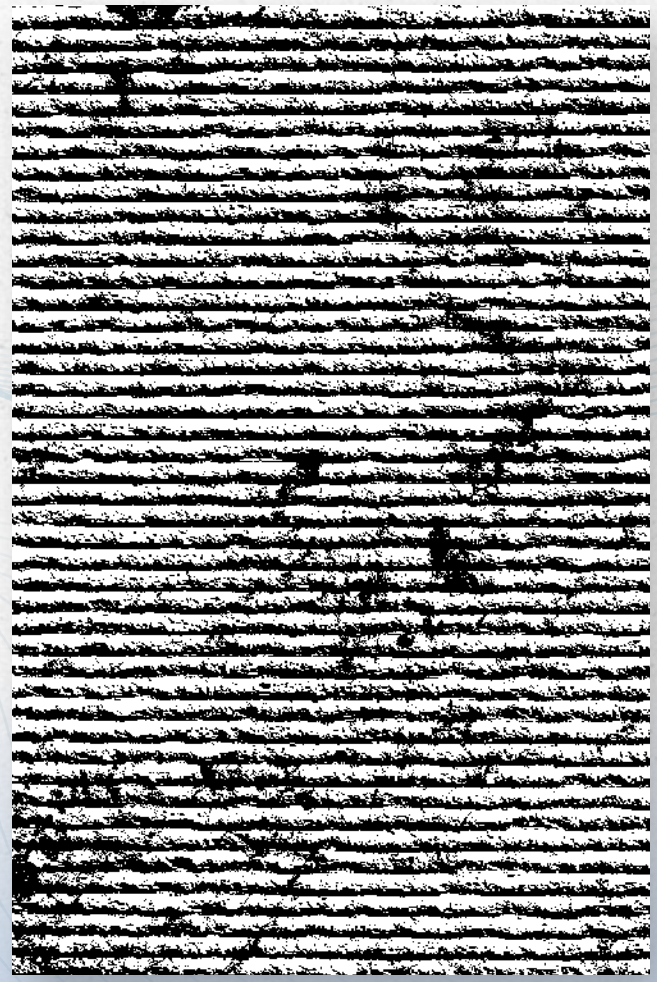
A refined architectural surface with subtle cultural richness and a serene contemporary presence.



Silk Weave MSW01-3L







Rock Grain

DIMENSION (mm.)
1200 x 2700 mm.

STRUCTURE
THICKNESS (mm.)
3-8(±1) mm.

WEIGHT
6.25 kg/m²

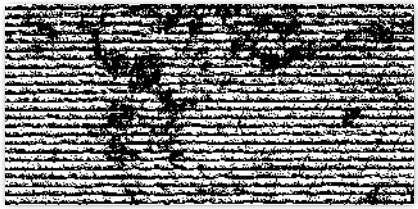




Rock Grain is inspired by finely chiseled limestone, expressed through dense horizontal grooves with a handcrafted stone rhythm.

Its closely carved texture gives the wall a tactile,sculptural quality, adding subtle movement without overwhelming the space.

A refined architectural surface with quiet craftsmanship and understated Mediterranean warmth.



Rock Grain MRG01-5L





Cliff Wall

DIMENSION (mm.)
1200 x 2700 mm.

STRUCTURE
THICKNESS (mm.)
3-8(±1) mm.

WEIGHT
6.25 kg/m²

Cliff Wall is inspired by traditional European masonry walls, expressed through layered stone blocks with natural surface variation.

Its soft limestone tone and subtle texture create a warm, grounded character with timeless architectural charm.

A refined architectural surface that brings classic stone craftsmanship into modern spaces.



Cliff Wall MCW01-3S

