

KA'ASHI

Waterproof

Wallpanel Collection



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ITALIAN ORIGINAL DESIGN

Introducing our exquisite line, KA'ASHI, our large-size slabs, designed to transform your space with a touch of Italian elegance. Crafted with sustainability in mind, KA'ASHI offers both visual appeal and eco-friendliness. Our innovative technology ensures a product with unparalleled durability, waterproof, non-toxic, with high resistance to scratches. The Italian Design-Digital Printing Coating ensures a stunning, lifelike finish that breathes life into any room. Manufactured using sustainable materials and processes, they minimize environmental impact while delivering top-notch performance.



WHAT IS SPC ?

Stone-Plastic Composite



and advantages. ————— +



Durability

Superior due to its stone-based core
Excellent stability, less prone to expansion/contraction.



Waterproof

100% Waterproof



Mold-Resistant

Does not absorb moisture, preventing mold growth.



Formaldehyde-Free

SPC board does not require the use of any adhesives. It is made through plastification and extrusion and does not contain harmful substances such as heavy metals or formaldehyde.

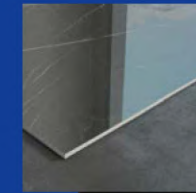
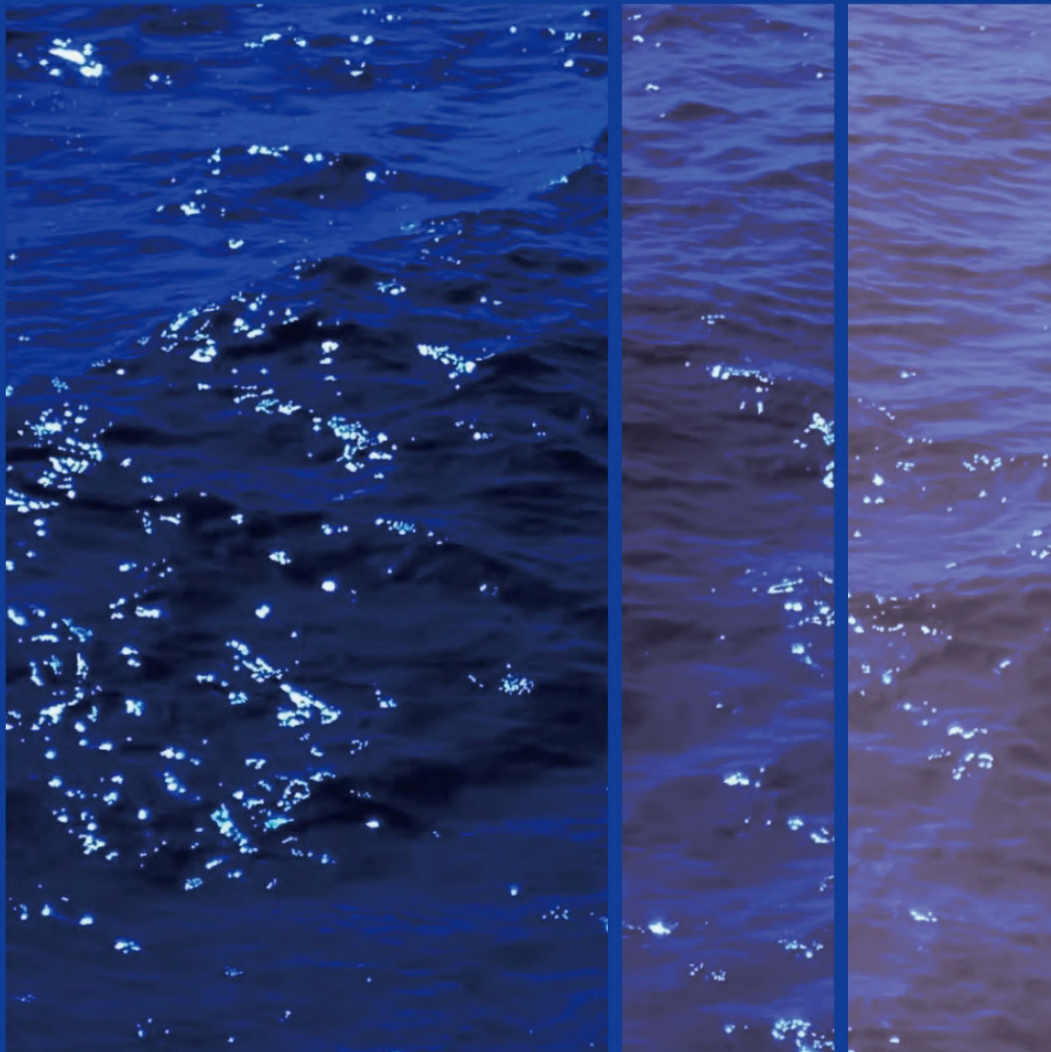


Cost Effective

SPC offers the texture and appearance of natural stone, wood, or fabric, but is more cost-effective compared to similar products like natural stone, ceramic tile, or slate.

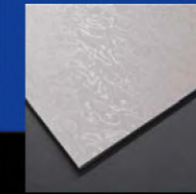
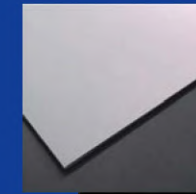
SURFACE

Finishing Process
Differentiation



DSPC

SPC+Digital Printing
Glossy Surface & Matte Surface



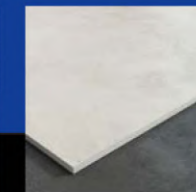
DSPC-A

SPC+Digital Printing
+Gradient Light Reflection Effect



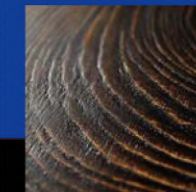
DSPC-T

SPC+Digital Printing+3D Texture



ESPC

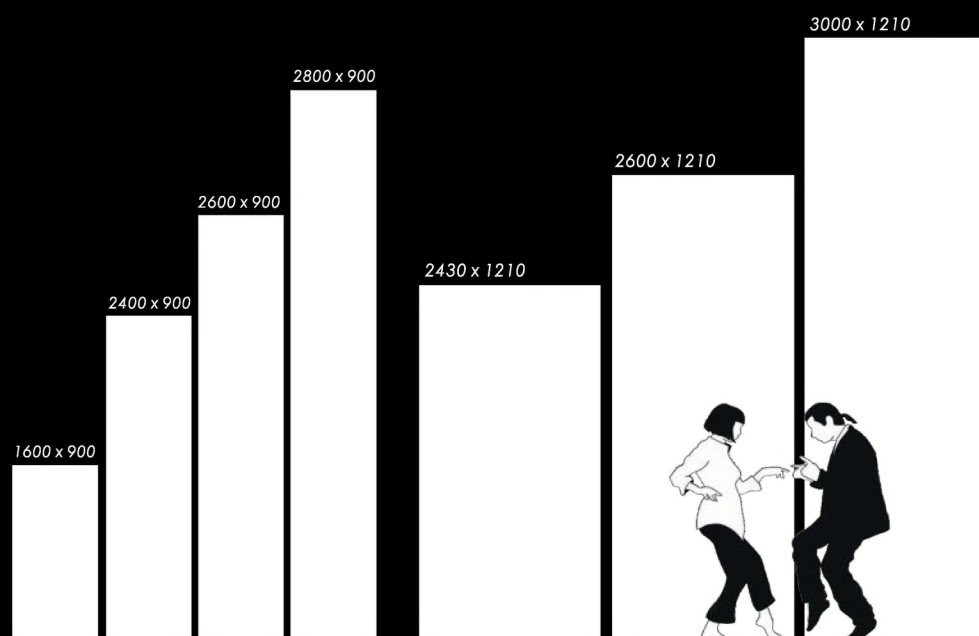
SPC+Digital Printing+PET
Glossy Surface & Matte Surface



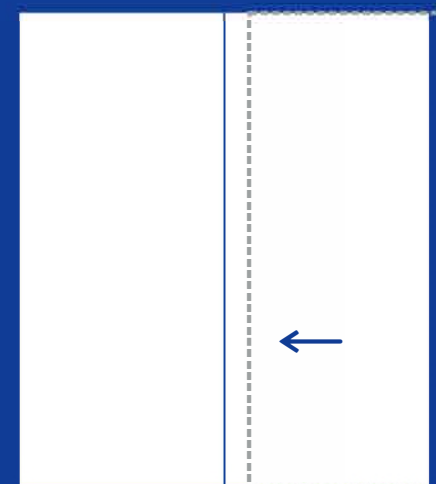
PSPC

SPC+PVC/PP (Surface textures such as cloth,
wood, leather, cement, sandstone, metal, etc.)

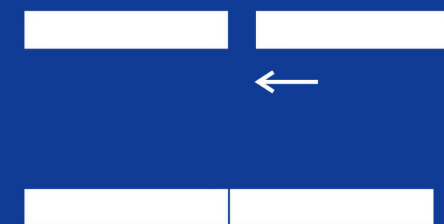
AVAILABLE IN VARIOUS SIZES



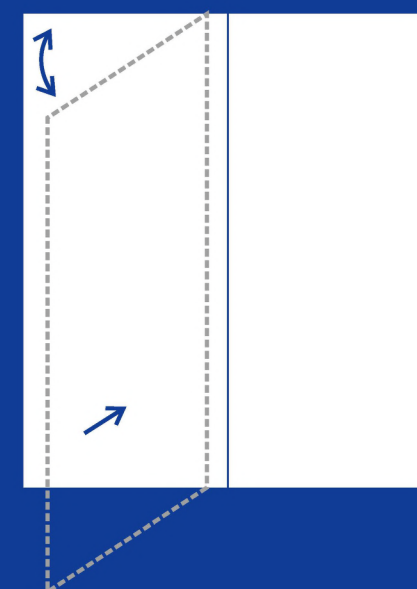
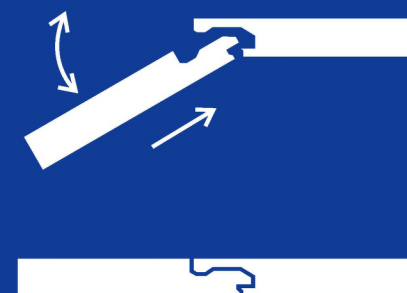
SPLICING METHOD



Direct Splicing
Top View



Lock Splicing
Top View



LIERRENSE ELECTRON BEAM CURING TECHNOLOGY

The electron is a fundamental particle. In its solid form, electrons are responsible for conducting electric charge, thereby generating electric current. When using an electron beam to process materials, particles loaded on the cathode are released, accelerated, and focused into a fine beam. Upon striking the material, the electron beam releases energy. The material absorbs this energy and converts it into heat. Due to the high intensity of the beam at the focus, a portion of the molten material would evaporate. This creates a fine steam tube that penetrates into the material, enabling welding or curing depth of up to hundreds of millimeters. The application of electron beam (EB) technology spans multiple industries, leveraging its unique ability to provide precise and controllable energy concentrations for a variety of applications, ranging from aerospace, military research, micro-machining to industrial processes and materials science.

It is a revolutionary curing technology, known as the most efficient, environmentally friendly, and clean curing technology to date. It can achieve up to 99% high cross-linking of coatings in milliseconds, saving 95%-99% of energy consumption compared to other curing methods, thus significantly increasing production efficiency. Most importantly, EB is a food grade-safe curing technology. It can cure without the need for chemical cross-linking agents or photoinitiators during the production process, truly eliminating VOCs (volatile organic compounds) from the source of materials and saying goodbye to solvents completely.



EB ENDOWS PANEL COATINGS WITH SUPERIOR PHYSICAL PROPERTIES.

HIGH BARRIER PROPERTIES RESULTING FROM DENSE SURFACES ▶

YELLOWING RESISTANCE: External oxygen finds it hard to permeate, and ultraviolet rays struggle to penetrate;
(Application scenarios: Building exterior walls, balcony spaces)

EASY TO CLEAN: Not prone to staining or bacterial attachment;
(Application scenarios: Kitchens, schools, hospitals)

HIGH PERFORMANCE: High hardness, wear-resistant, scratch-resistant, and resistant to chemical reagents.
(Application scenarios: Flooring materials, high-end laboratories)

LOW ODOR: Complete reaction, no seepage of substrate odors;
(Application scenarios: Bedrooms, children's spaces)

| | THERMAL CURING | ULTRAVIOLET CURING(UV) | ELECTRON BEAM CURING(EB) |
|----------------|---------------------|------------------------|--------------------------|
| Curing Degree | ~ 60% | 40~70% | > 99% |
| Microstructure | | | |
| Surface Cracks | Large Solvent Pores | Microscopic Defects | Point Defects |

THE APPLICATION OF EB ELECTRON BEAM CURING TECHNOLOGY IN THE PANEL INDUSTRY ▼



Yellowing Resistance Test
Conditions: Xenon lamp, GB/T 17657.4-2013, Wavelength of 300-420nm, black panel temperature 60°C, irradiance of 42W/m², exposure for 48 hours.
Test Subject: DSPC-TJ Wall Panel, 300mm x 300mm x 5pcs.



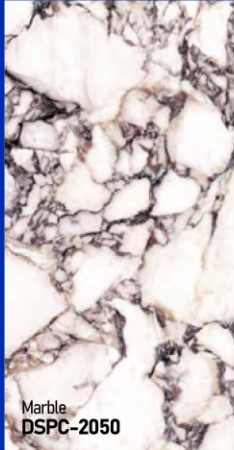
LIERRENSE ELECTRON BEAM CURING PRODUCTION LINE

Producing 2 million square meters of eb wall panels and 2 million square meters of eb flooring annually. ▼

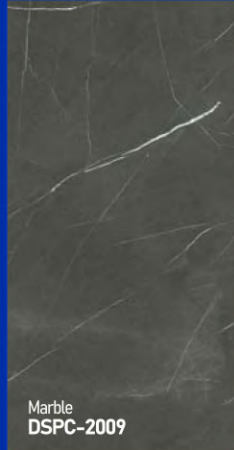


DSPC

SPC+Digital Printing



Marble
DSPC-2050



Marble
DSPC-2009



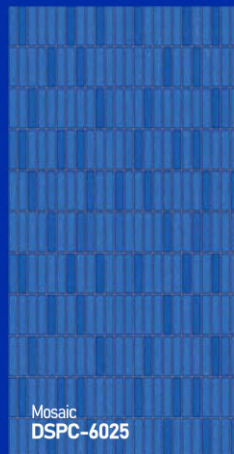
Marble
DSPC-2023



Terrazzo
DSPC-3041



Mica
DSPC-4002



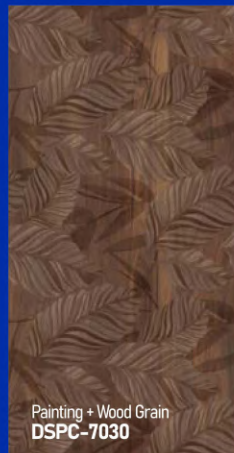
Mosaic
DSPC-6025



Mosaic
DSPC-6007



Painting
DSPC-1062



Painting + Wood Grain
DSPC-7030



High Gloss
Surface



Matte
Surface



Anti-Aging
Yellowing-Resistant



Formaldehyde-
Free



Waterproof and
Moisture-Resistant



Antibacterial and
Mold-Resistant



Smudge-
Free



Easy to
Clean



Corrosion-
Resistant



High-Degree
Scratch-Resistant

STRUCTURE

& ADVANTAGES



SIZE

1210mm x 2430-3050mm x 3.6/4.5mm

Digital Printing Layer

Swiss Seitz 160 mega pixels high-definition digital camera enables the capturing of natural textures such as natural wood, stone and Italian original hand-painted art. Through Swedish NCS and German CGS color system, the 6-color digital printing system creates the facade of stone on SPC, making the product more colorful, real, and vivid.

Electron Beam Curing

Electron Beam Curing (Civilian Non-Power Nuclear Technology) Aerospace Technology: Rapid and Deep Penetration Curing with Energy Hundreds of Thousands of Times Greater than Conventional UV Curing. Complete Sealing, Dense Surface, and Significantly Enhanced Physical and Chemical Properties: Anti-Yellowing, Anti-Aging, Anti-Bacterial, Anti-Mold, Anti-Fingerprint with No Smudges, Scratch-Resistant, and Corrosion-Resistant

SPC Core

Pure Natural Stone Powder (Calcium Carbonate CaCO_3) Zero Formaldehyde, Green and Environmentally Friendly.



DSPC

LIERRENSE



High Gloss
Surface

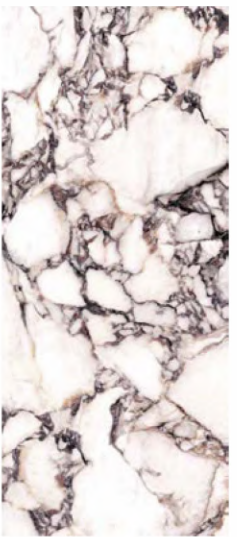
DSPC

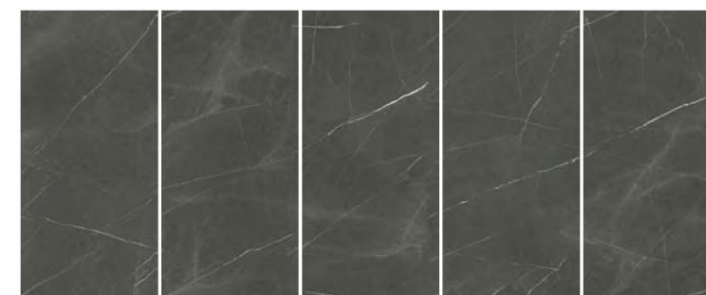


 LIERRENSE

DSPC-2050

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm
SURFACE/1





DSPC-2009

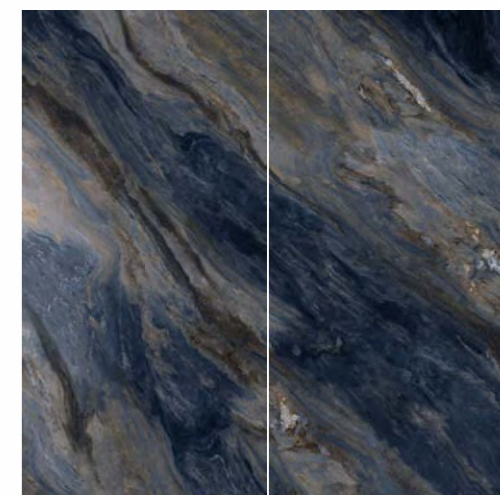
SIZE/1210mm x 2430-3050mm x 3.6/4.5mm
SURFACE/5



DSPC-2023

SURFACE/2

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm





DSPC



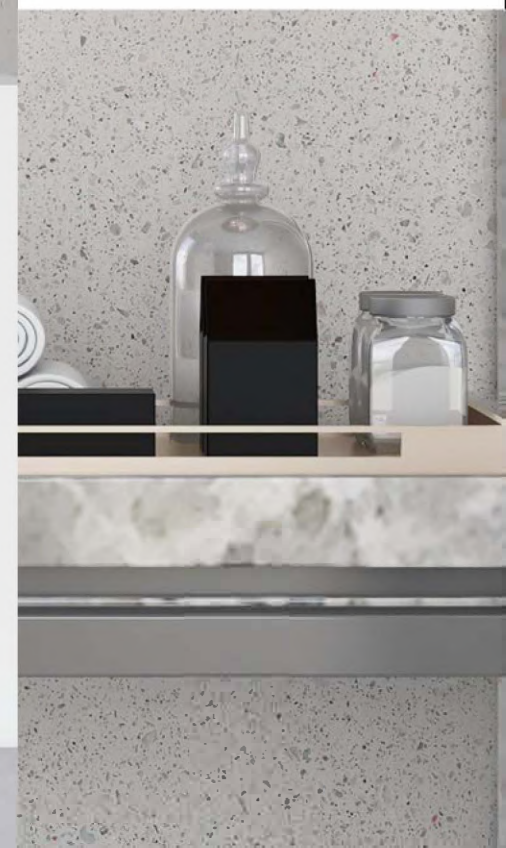
 LIERRENSE

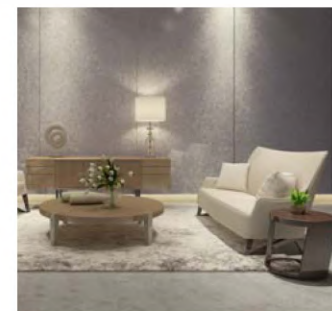


DS-PC-3041

SURFACE/1

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm



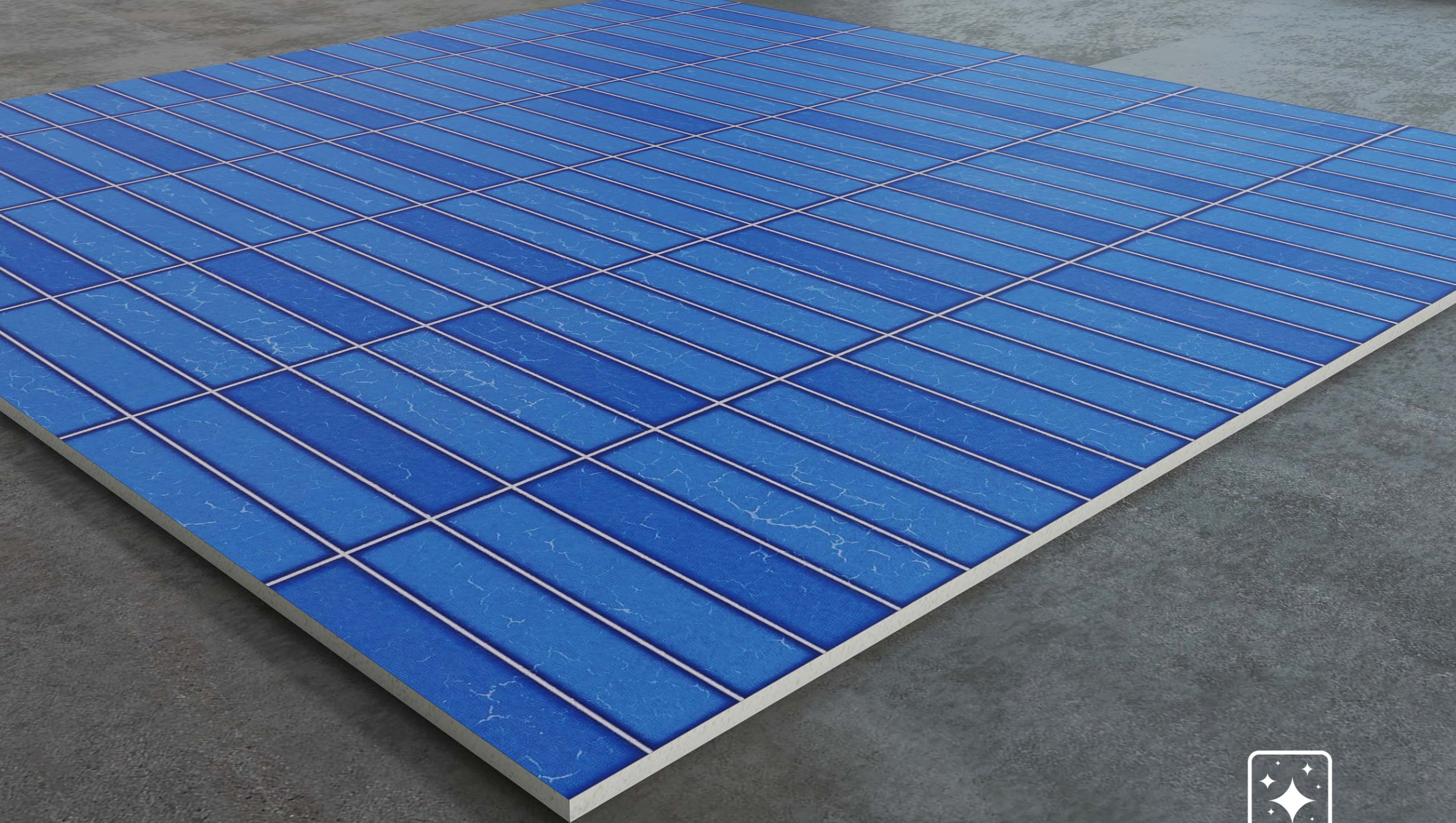


DSPC-4002

SURFACE/1

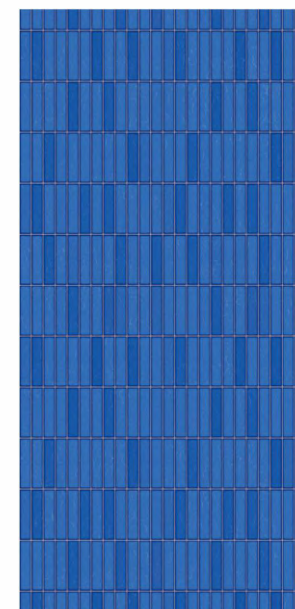
SIZE/1210mm x 2430-3050mm x 3.6/4.5mm





High Gloss
Surface

DSPC



DSPC-6025

SURFACE/1

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm





DSPC



DSPC-7030

SURFACE/1

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm



High Gloss
Surface

DSPC

 LIERRENSE



DSPC-1062

SURFACE/1

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm





DSPC-6007

SURFACE/2

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm



DSPC-A

SPC+Digital Printing+Gradient Light Reflection Effect



STRUCTURE & ADVANTAGES



Gradient Light
Reflection Effect



High Gloss
Surface



Anti-Aging
Yellowing-Resistant



Formaldehyde-
Free



Waterproof and
Moisture-Resistant



Antibacterial and
Mold-Resistant



Smudge-
Free



Easy to
Clean



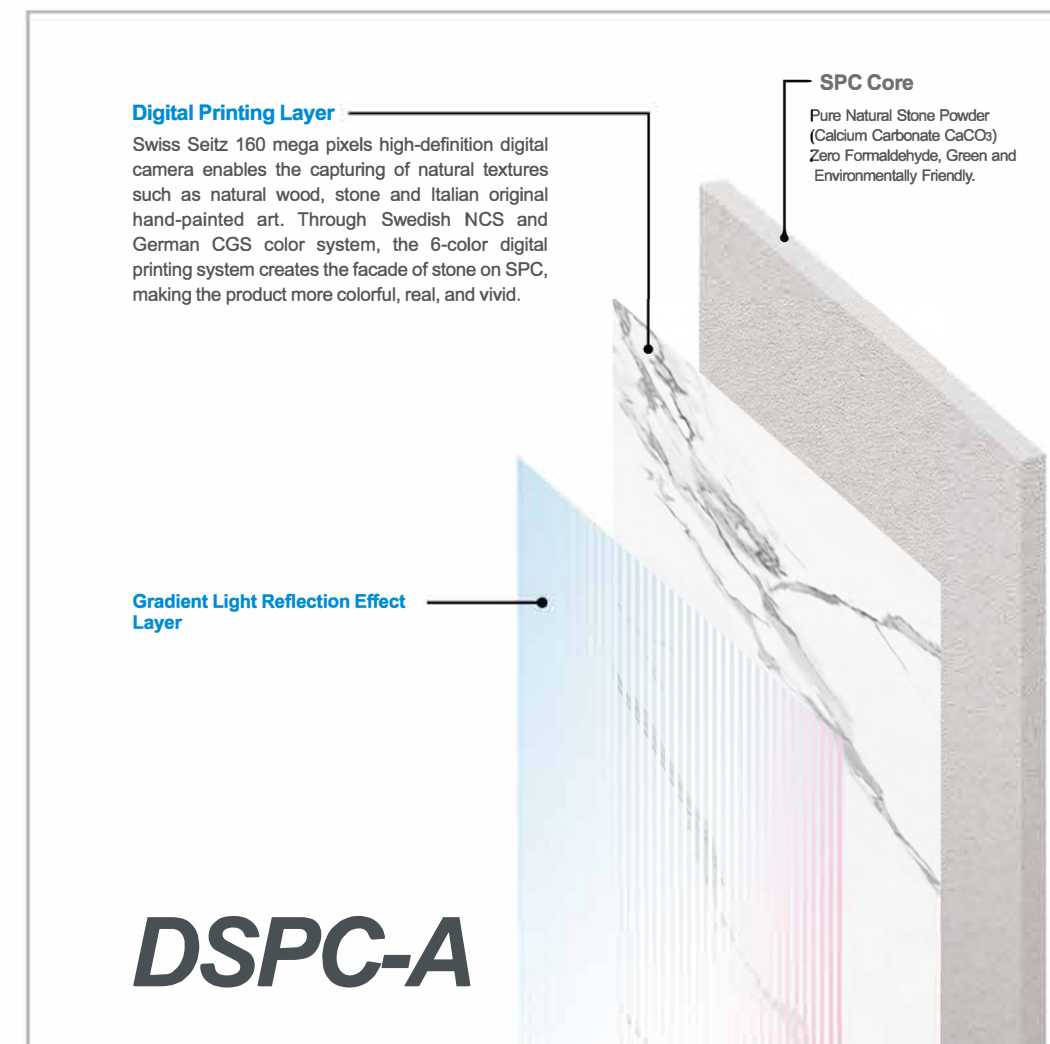
Corrosion-
Resistant



High-Degree
Scratch-Resistant

SIZE

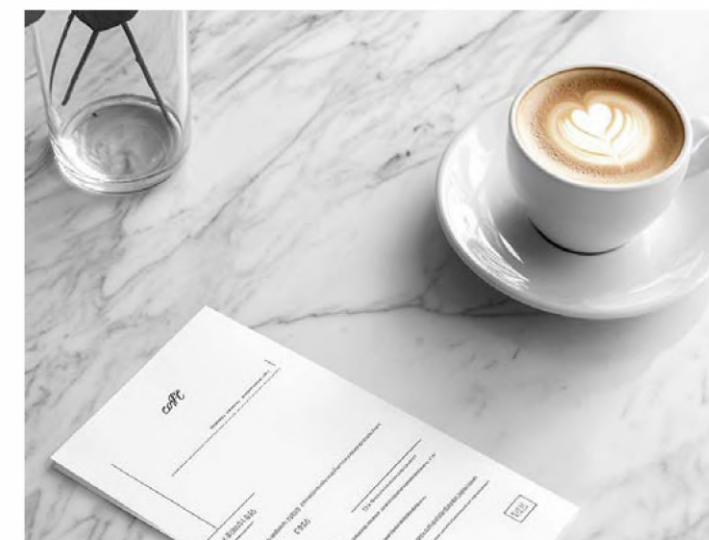
1210mm x 2430-3050mm x 3.6/4.5mm





Gradient Light
Reflection Effect

DSPC-A



DSPC-A 2015

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm
SURFACE/5



Gradient Light
Reflection Effect

DSPC-A



LIERRENSE



DSPC-A 2061-D

SURFACE/1

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm



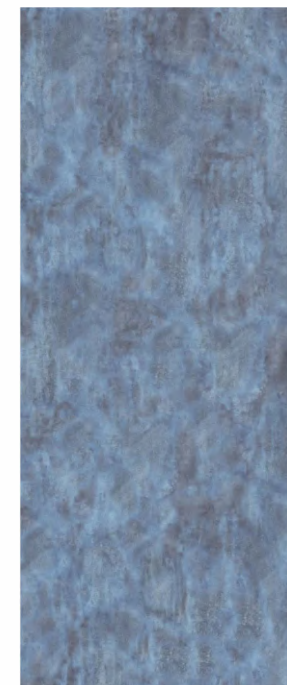


Gradient Light
Reflection Effect

DSPC-A



LIERRENSE



DSPC-A 2062-C

SURFACE/1

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm





Gradient Light
Reflection Effect

DSPC-A



DSPC-A 2053GA

SURFACE/1

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm





Gradient Light
Reflection Effect

DSPC-A



DSPC-A 013

SURFACE/1

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm





Gradient Light
Reflection Effect

DSPC-A



DSPC-A 2053M

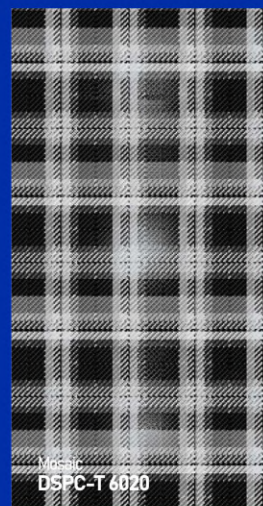
SURFACE/1

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm



DSPC-T

SPC+Digital Printing + 3D Texture



3D
Touch



Flexible and
Foldable



Anti-Aging
Yellowing-Resistant



Formaldehyde-
Free



Waterproof and
Moisture-Resistant



Antibacterial and
Mold-Resistant



Smudge-
Free



Easy to
Clean



Corrosion-
Resistant



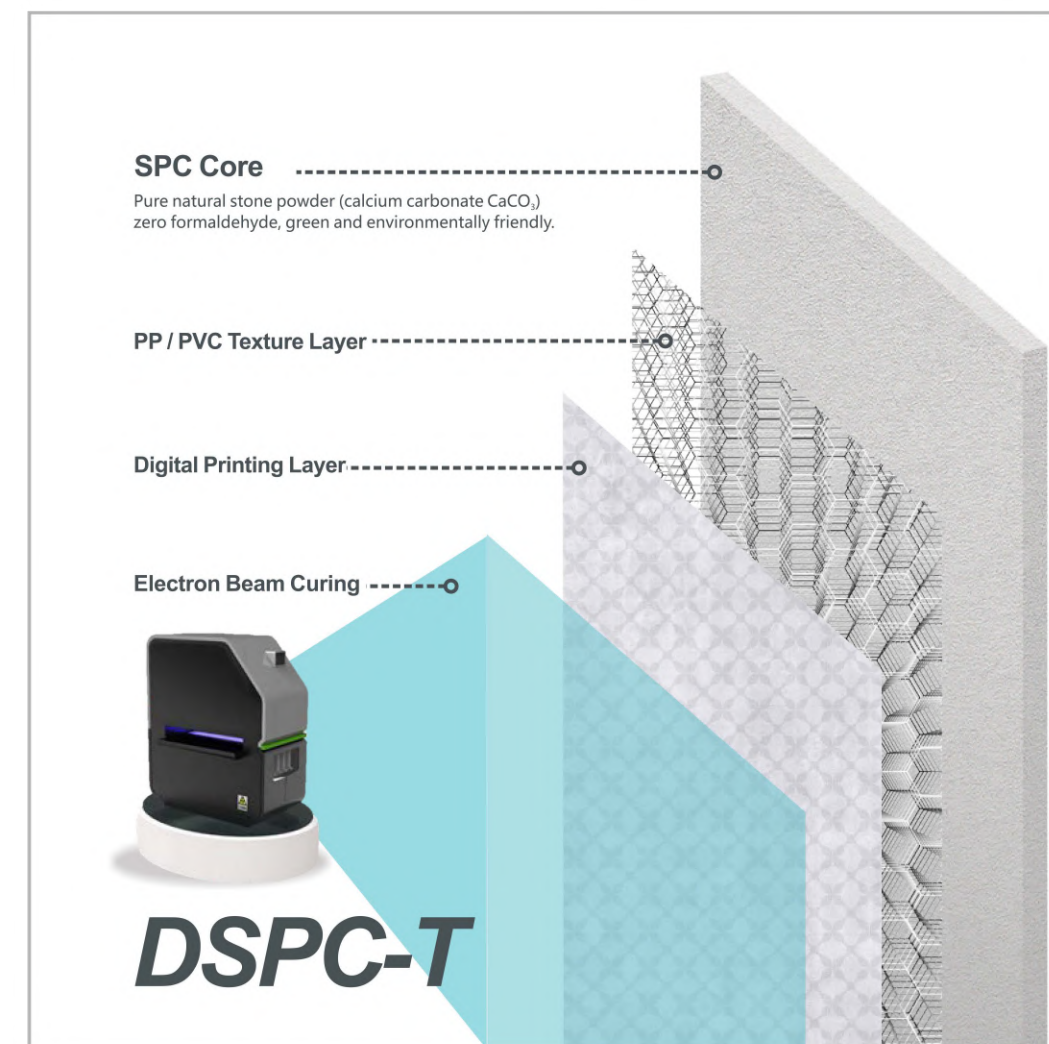
High-Degree
Scratch-Resistant

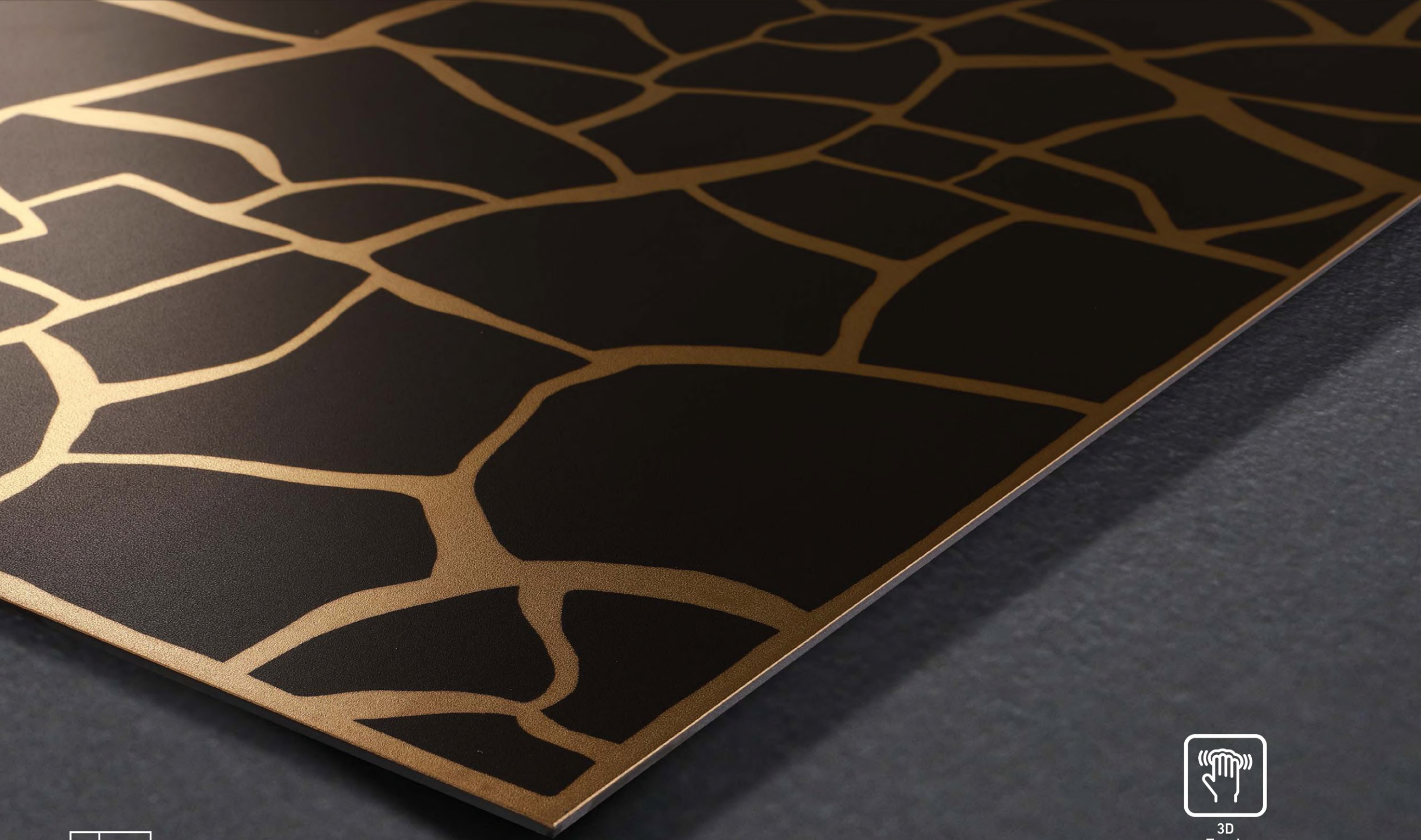
STRUCTURE & ADVANTAGES



SIZE

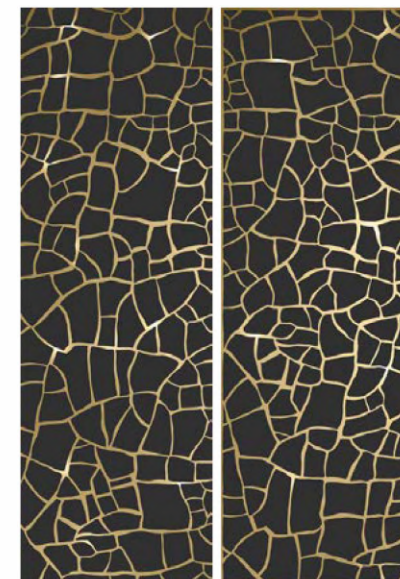
1210mm x 2430-3050mm x 3.6/4.5mm





3D
Touch

DSPC-T



DSPC-T / EFD469

SURFACE/2

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm



3D
Touch

DSPC-T



LIERRENSE



DSPC-T 1054

SURFACE/1

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm





3D
Tocuh

DSPC-T



DSPC-T 1060

SURFACE/1

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm



3D
Touch

DSPC-T



DSPC-T 1063

SURFACE/1

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm





3D
Touch

DSPC-T



LIERRENSE



DSPC-T 3012

SURFACE/1

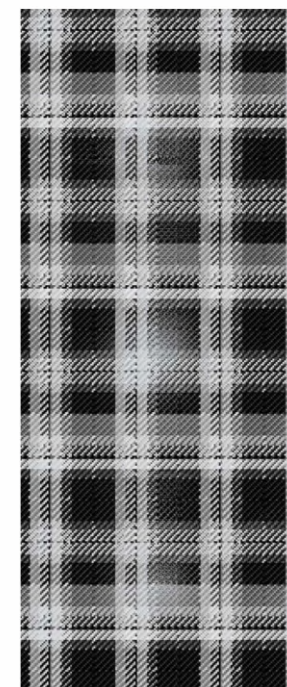
SIZE/1210mm x 2430-3050mm x 3.6/4.5mm





3D
Touch

DSPC-T



DSPC-T 6020

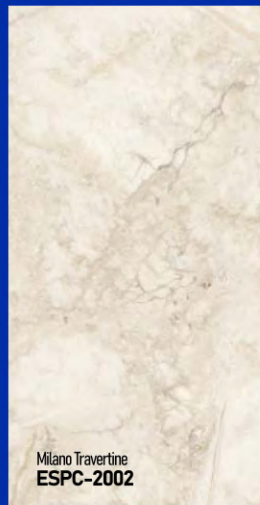
SURFACE/1

SIZE/1210mm x 2430-3050mm x 3.6/4.5mm



ESPC

SPC+Digital Printing + PET



STRUCTURE & ADVANTAGES



High Gloss
Surface



Matte
Surface



Flexible and
Foldable



Formaldehyde-
Free



Waterproof and
Moisture-Resistant



Antibacterial and
Mold-Resistant



Easy to
Clean



SIZE
1210mm x 2430-3050mm x 4.0mm

SPC Core

Pure natural stone powder (calcium carbonate CaCO_3)
zero formaldehyde, green and environmentally friendly.

Digital Printing Layer

Non-Formaldehyde Adhesive

Environmental friendly, Healthy & Safe.

Polyethylene

Terephthalate (PET)

Possesses excellent physical properties,
with an impact strength 3 to 5 times greater
than other films, and is highly elastic. It is
non-toxic, odorless, hygienic, and can be
used directly on food packaging.

ESPC



High Gloss
Surface



Flexible and
Foldable

ESPC



Classical Calacatta

ESPC - DLS009

SURFACE/6

SIZE/1210mm x 2430-3050mm x 4.0mm





Carrara

ESPC-2019

SURFACE/5

SIZE/1210mm x 2430-3050mm x 4.0mm





LIERRENSE



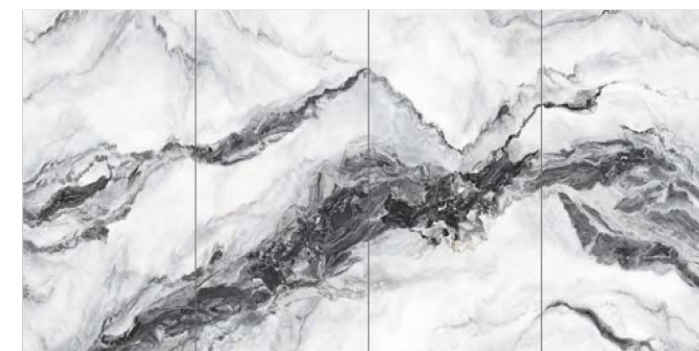
High Gloss
Surface

Himalayas

ESPC-2031

SURFACE/4

SIZE/1210mm x 2430-3050mm x 4.0mm





LIERRENSE



High Gloss
Surface

Aurora

ESPC-2013

SURFACE/4

SIZE/1210mm x 2430-3050mm x 4.0mm





LIERRENSE



Persian Jade

ESPC-2016

SURFACE/5

SIZE/1210mm x 2430-3050mm x 4.0mm





Matte
Surface

Milano Travertine

ESPC-2002

SURFACE/4

SIZE/1210mm x 2430-3050mm x 4.0mm



PSPC

SPC+PVC / PP



STRUCTURE & ADVANTAGES



SIZE

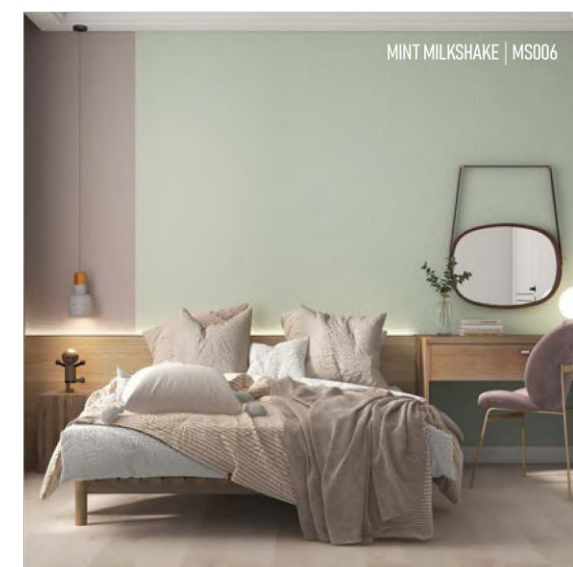
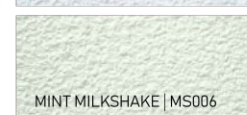
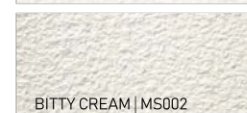
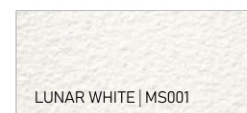
1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm



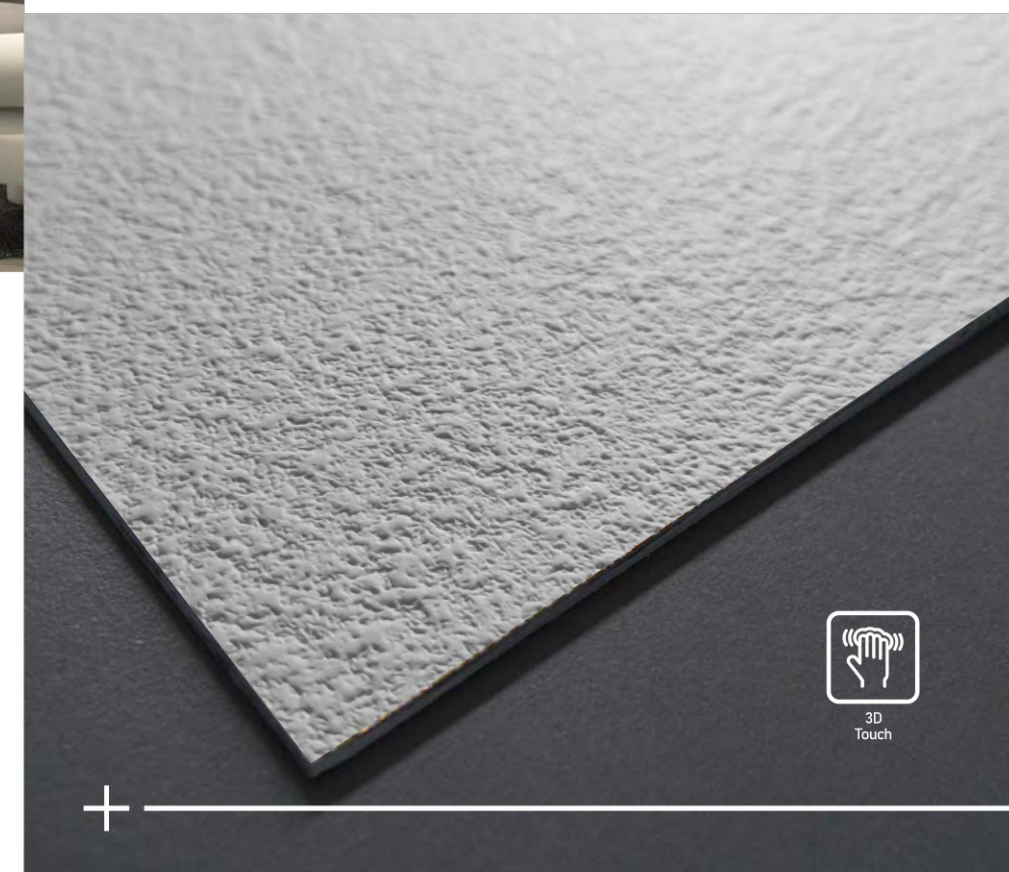


GRANITE PSC | BITTY CREAM | MS002 SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm

LIERRENSE
PSPC GRANITE **6 COLORS**



GRANITE
PSPC / LUNAR WHITE | MS001
SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm



PSPC CEMENT

5 COLORS

WHITE | SW08001

MOCHA | SW08003

MEDIUM GREY | SW08004

KHAKI | SW08005

CAMEL | SW08002

KHAKI | SW08005

MOCHA | SW08003

CEMENT
PSPC SW08001

SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm



3D
Touch



MORANDI COLOR PSpC 8038 SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm

PSPC MORANDI COLOR

6 COLORS

8035

8036

8037

8038

8039

8046




MORANDI COLOR 8035



MORANDI COLOR
PSPC 8036
SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm



 DELICATE SKIN FEEL



LIERRENSE

FABRIC TEXTURE
PSPC 8010



SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm

PSPC FABRIC TEXTURE
6 COLORS



8010

8011

8012

8013

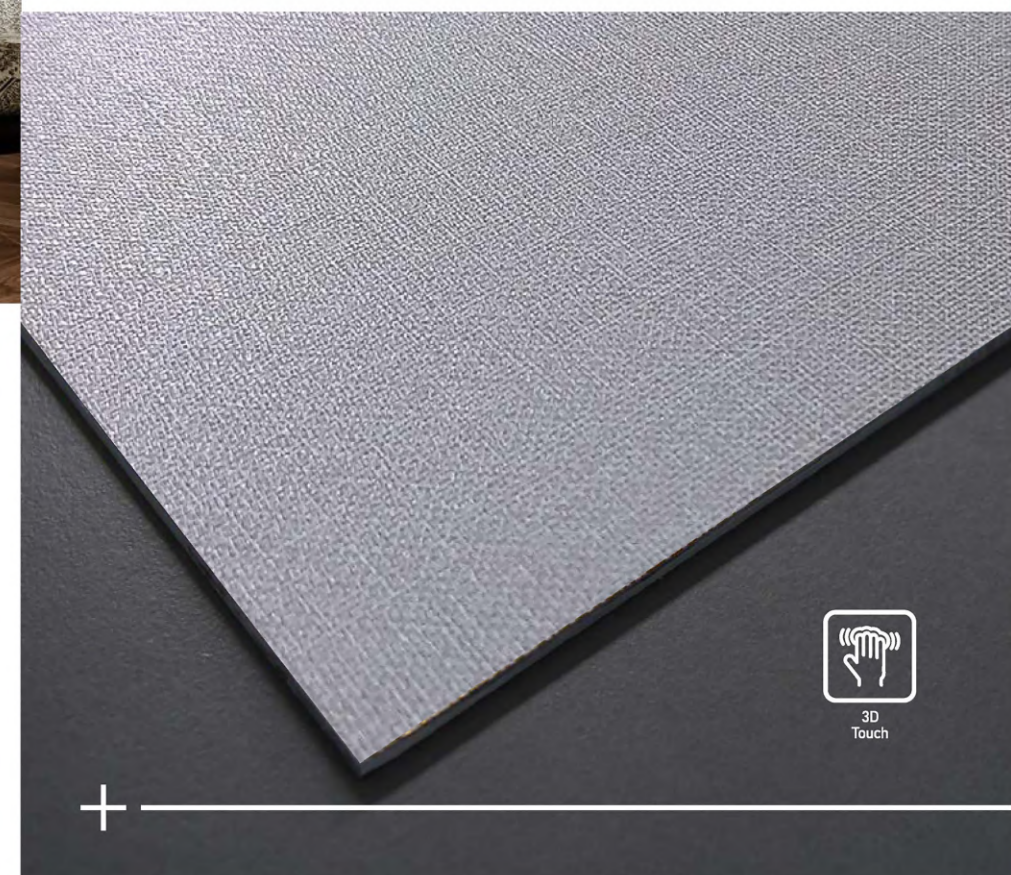
8014

8045

FABRIC TEXTURE 8045



FABRIC TEXTURE
PSPC 8012
SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm



3D
Touch



PSPC WOOD GRAIN / SW01002 / SIZE SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm

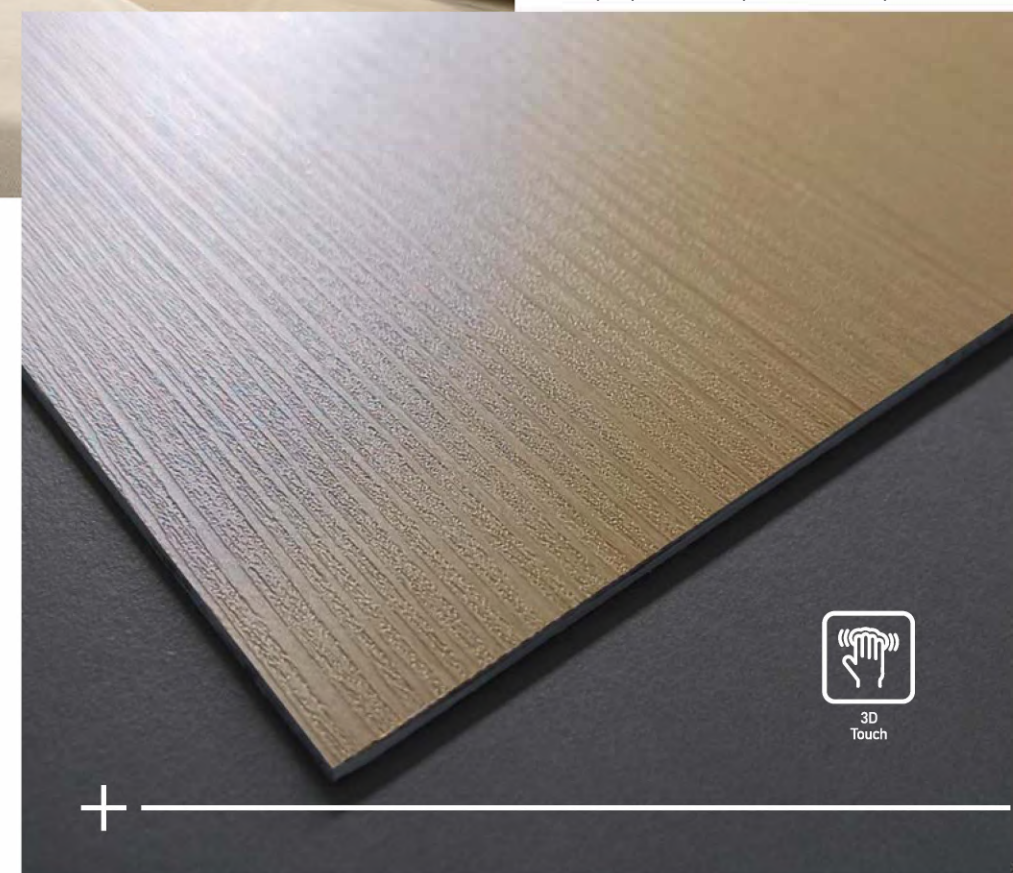


PSPC WOOD GRAIN / 8017
SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm



PSPC WOOD GRAIN / SW01001 SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm

PSPC WOOD GRAIN
6 COLORS
SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm



LEATHER
PSPC 8020

SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm



PSPC LEATHER

3 COLORS

SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm



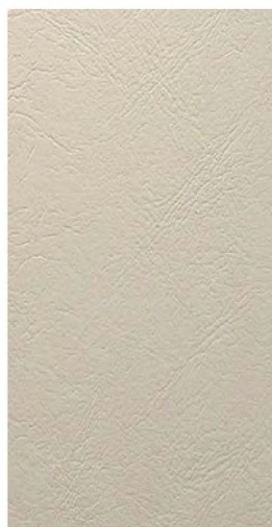
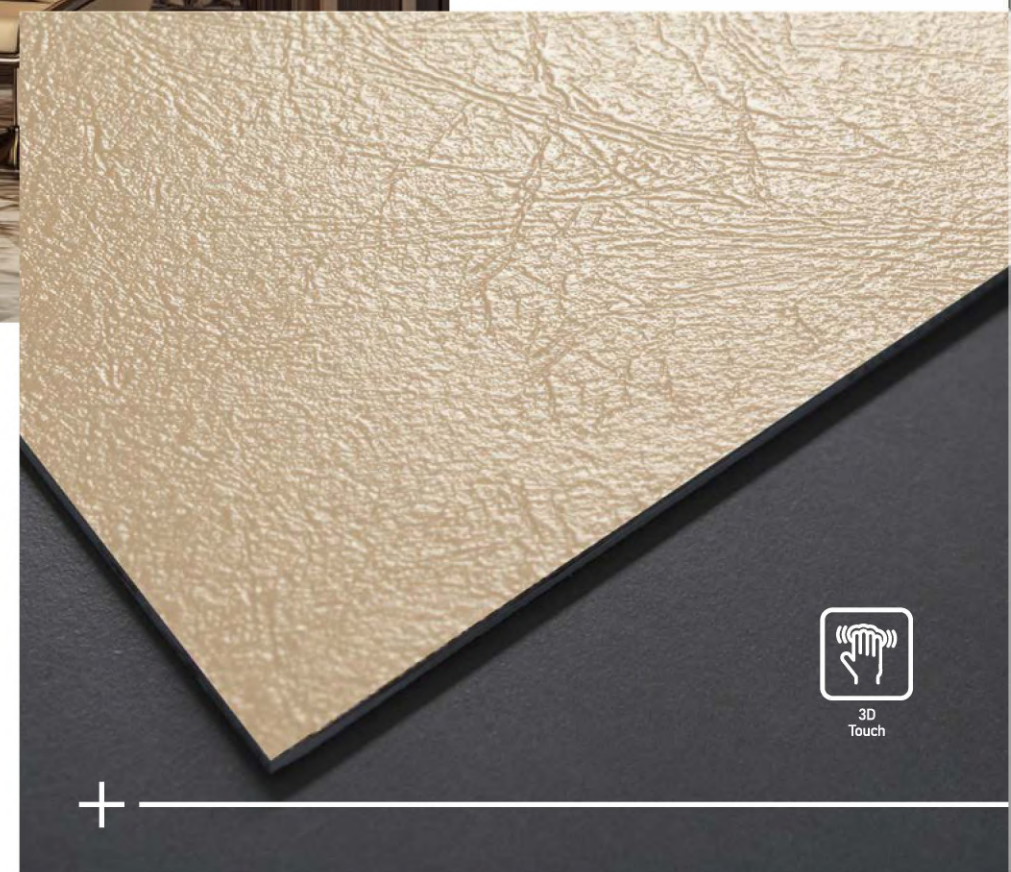
LEATHER
8019



LEATHER
8020



LEATHER
8021



LEATHER
PSPC 8019

SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm

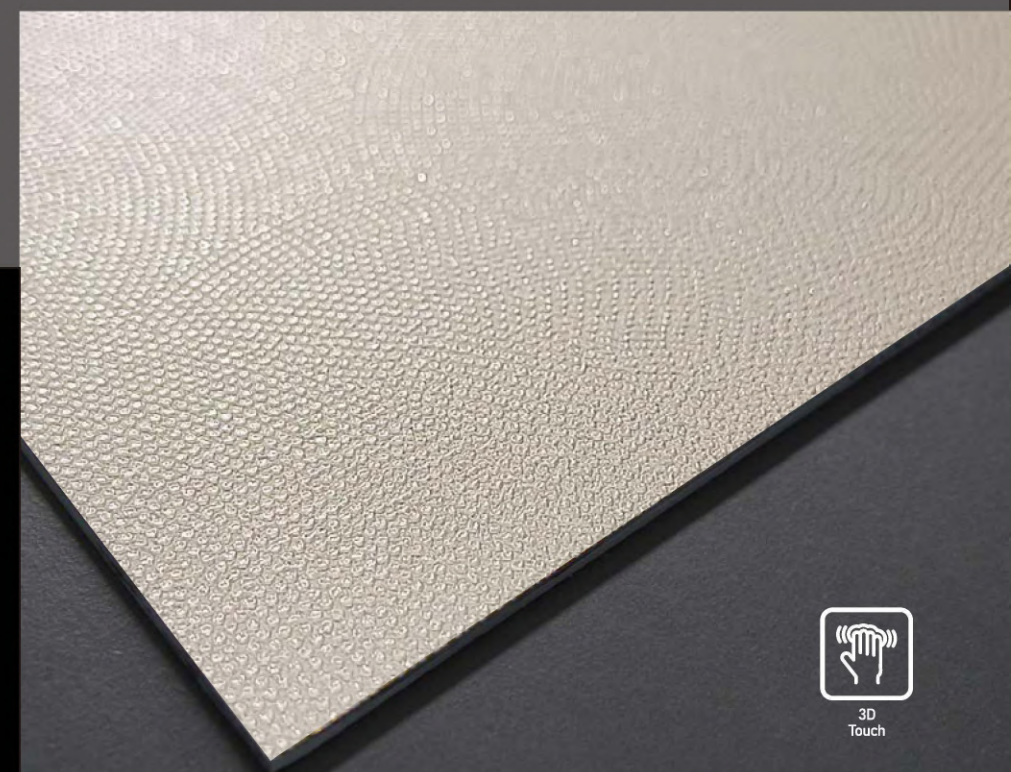
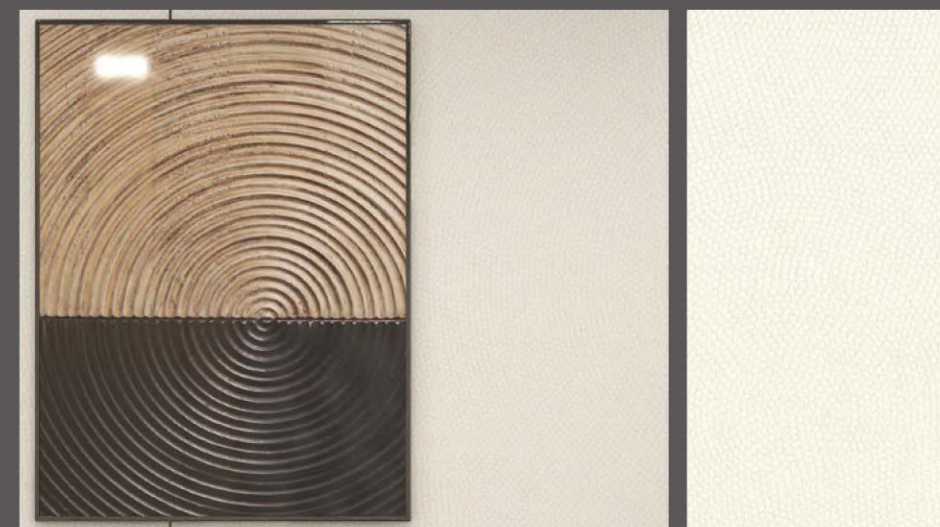


3D
Touch

ROUNDED ARC

PSPC 8034

SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm





SANDSTONE PSC8002 SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm

PSPC SANDSTONE SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm **3 COLORS**

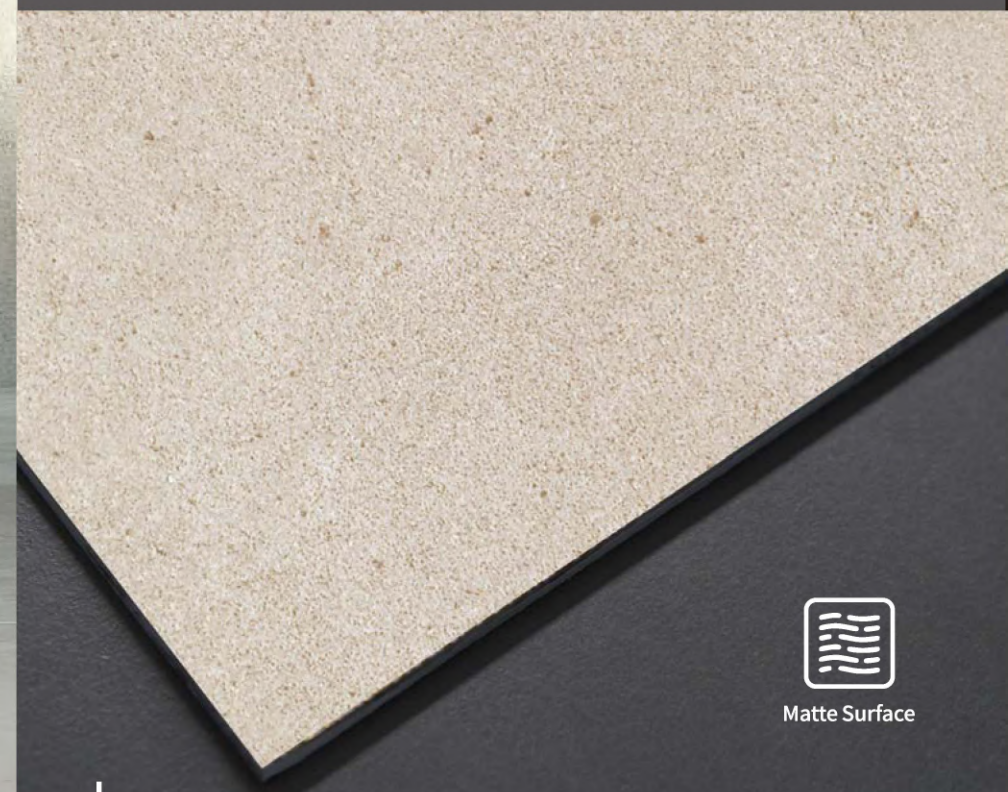


SANDSTONE
PSPC 8003



SANDSTONE
PSPC 8004

SANDSTONE
PSPC 8002



Matte Surface



PSPC MARBLE 8050
SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm



PSPC MARBLE 8050

SURFACE/2
SIZE/1210/1220mm x 2430/2440-3050mm x 3.6/4.5mm



Matte Surface

















TEST RESULTS



CERTIFICATIONS



| Item | Standard | Performance++ |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Water Absorption | ISO 62-2008 Method 1 Dry at 50°C and then with 24hrs distilled water (23.0±1.0°C) Submersion | Water absorption(%):0.03 Length change rate(%):0.18 Width change rate(%):0.13 Appearance changes:No visible change |
|  Fire Resistance | BS 476 Part 7 | Class 2 |
|  Wear Resistance | ASTM D 4060-19 & Client's requirement(2000r) | Weight loss(mg):1 Wear index(mg/1000r):0.7 2000r no wear out |
|  Pencil Hardness | ASTM D3363-22 | Gouge Hardness:4H Scratch Hardness:3H |
|  Density | ISO 1183-1:2019 Method A | 2.076g/cm ³ |
|  Resistance to Immersion in Boiling Water | ISO 4586-2:2018(E) Clause 13 Immersion time in boiling water:(120±5)min | Mass increase rate(%):0.12 Thickness increase rate(%):0.42 Surface rating: Rating5(No visible change) Edge rating: Rating5(No visible change) |
|  Dimensional Stability at Elevated Temperature | ISO 4586-2:2018(E)Clause 19 Dry condition:70±2°C,24h High humidity condition: 40±2°C,90-95%RH,96h | MD(%):0.15 TD(%):0.15 |
|  Large Ball Impact Resistance | ISO 4586-2:2018(E) Clause 25 | No cracks on the surface when dropped from a height of 2000mm |
|  Resistance to Scratching | ISO 4586-2:2018(E) Clause 29 | Rating 4 |
|  Resistance to Staining | ISO 4586-2:2018(E)Clause 30 (Acetone/Coffee/25% Sodium hydroxide/30% Hydrogen peroxide/Carbon black suspension inparaffin oil(shoe polish simulant) | Appearance rating: 5 (No visible change) |
|  Release of Formaldehyde | EN15102:2007 +A1:2011 | None Detective |
|  Heavy Metals & Specific Elements | EN15102:2007 +A1:2011 | None Detective |
|  Release of Vinyl Chloride Monomer | EN15102:2007 +A1:2011 | None Detective |
|  VOC | ISO16000-9:2006/Cor1-2007&ISO16000-6:2021&ISO16000-3:2002 | A+ |

French A+ certification is the highest environmental protection grade mark in the French VOC label, representing "Emissions in indoor air". It is based on the international standard ISO-16000, which simulates the actual living environment and continuously monitors indoor air quality for 28 days, grading products based on the concentration of volatile organic compounds. It applies to indoor building materials, such as paints and flooring.



ROHS stands for the Restriction of Hazardous Substances. It is a European Union directive that limits the use of specific hazardous substances in electrical and electronic products. The directive restricts the use of six substances: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE). The testing ensures products comply with environmental requirements, protecting human health and the environment.



CE certification is a mandatory mark for products in the European market, indicating compliance with health, safety, and environmental protection requirements. It signifies that the product has undergone necessary testing and verification to meet applicable EU directives. CE stands for "Conformité Européenne," meaning the product meets the requirements of the relevant directives and can be legally sold in the EU.



ISO 14000 Certification is a series of international standards designed to help organizations operate sustainably, adhere to environmental regulations, and continuously improve processes. The ISO 14000 standard includes ISO 14001:2015, which specifies the requirements for an effective Environmental Management System (EMS).

