XSTONE® SURFACES



FLEXIBLE MINERAL VENEER · ENVIRONMENTAL CLAIMS

Sustainability report ISO 14021 self-declaration

The environmental claims XSTONE® makes for its flexible mineral veneer, declared by the manufacturer under ISO 14021 (Type II), with the evidence and the limits of each claim.

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Introduction

For 15 years XSTONE® has developed and made ultra-thin mineral veneers. The idea is simple: use less stone. Marble waste from quarries is ground to powder, and that powder makes up 90 % of every sheet.

Each sheet is made by hand in Europe from this mineral powder and a copolymer binder, on a fibreglass backing, in a low-energy, low-water process. The result is a light, flexible surface with the look and feel of stone, for architects, designers and brands.

This report sets out the environmental claims XSTONE® makes for its veneer. The claims are self-declared under ISO 14021 (Type II). Each one is listed with the evidence behind it and the conditions under which it applies.

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From marble waste left over in quarries…



…to a flexible mineral sheet 2–2.5 mm thin.

02 · IDENTIFICATION

Identification

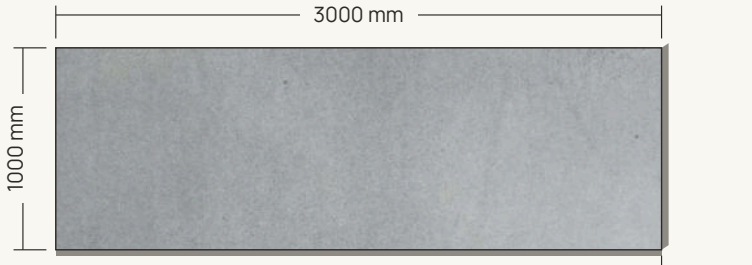
Manufacturer	XSTONE® GROUP
Address	Strada Puchenii Mari nr. 257A, 107485 Puchenii Mari, Romania
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Version and date	v1.0 · 2025-10-03
Type of declaration	Self-declared environmental claims, ISO 14021 (Type II)

STANDARDS OF REFERENCE

ISO 14021	Self-declared environmental claims (Type II)
EN 15102+A1	Decorative wallcoverings
EN 13501-1	Fire classification
ISO 16000	Indoor air, VOC emissions
NF EN 12667	Thermal resistance

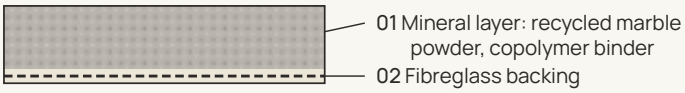
03 · PRODUCT DESCRIPTION AND SCOPE

Product description and scope



XSTONE® veneer sheet · 3000 × 1000 mm · 3 m²
Declared unit: 1 m² of veneer.

CROSS-SECTION OF THE SHEET



Not to scale.

PRODUCT AND SCOPE

PRODUCT	Flexible decorative mineral sheet
USE	Walls, ceilings, furniture, panels and protected façades
COMPOSITION	90 % recycled marble powder, copolymer binder, fibreglass backing
DIMENSIONS	3000 × 1000 mm
THICKNESS	2–2.5 mm
WEIGHT	About 2 kg/m²
DECLARED UNIT	1 m² of XSTONE® veneer



Five of the mineral finishes: concrete, rust, engraved pattern, brick and textured relief.

The key figures

Eight figures sum up the declaration. The percentages compare XSTONE® veneer with solid natural stone slabs. Each claim is set out with its evidence and its limits on page 5.

−95 %

Raw material

For the same surface, compared with solid stone slabs.

−95 %

CO_2 in manufacturing

Made by hand in a low-energy, low-water process.

−95 %

CO_2 in transport

Far more surface travels in each container.

−50 %

CO_2 on site

Less adhesive, easier cutting, no heavy tools.

90 %

Recycled marble powder

The mineral share of every sheet.

2 kg/m²

Weight, approximately

Solid stone weighs 50–70 kg/m².

A2-s1,d0

Reaction to fire

Classified to EN 13501-1.

A+

VOC emission class

ISO 16000 tests. Formaldehyde not detected.

Where the percentages come from

RAW MATERIAL USED

XSTONE® veneer 5 %

Solid stone slab 100 %

The material of 15 slabs makes 300 sheets.

SURFACE PER CONTAINER

XSTONE® veneer 10,637 m²

Solid stone 441 m²

24 times more surface in each container.

WEIGHT PER M²

XSTONE® veneer about 2 kg

Solid stone 50–70 kg

25 to 35 times lighter to carry and to ship.

Each panel compares the same surface. Bars are drawn to scale within each panel; the hatched part of the last bar shows the range from 50 to 70 kg. Figures are XSTONE® production and logistics data; the transport figure depends on distance and mode of transport.

The claims in detail

Nine claims, each with what XSTONE® states, what the statement rests on, and the conditions under which it holds.

CLAIM	STATEMENT	BASIS AND EVIDENCE	CONDITIONS AND LIMITS
Resource conservation	For the same surface, XSTONE® uses about 95 % less raw material than solid stone slabs: the material of 15 slabs makes 300 sheets.	Production data; raw material ratio.	Comparison on an equivalent surface area.
Responsible manufacturing	Made by hand in a low-energy, low-water process from recyclable raw materials. About 95 % less CO_2 than solid stone.	XSTONE® process; internal data.	Applies to standard production.
Optimised transport	One container carries 10,637 m² of XSTONE® against 441 m² of solid stone: about 95 % less transport CO_2 per square metre.	Internal logistics data; weight and volume ratio.	Depends on distance and mode of transport.
Efficient installation	No heavy tools and less adhesive: about 50 % less CO_2 on site.	Field experience; internal data.	Depends on substrate and choice of adhesive.
Low VOC emissions	Total VOC below 100 µg/m³ after 20 days. Formaldehyde not detected.	ISO 16000 tests; A+ rating.	Applies under normal indoor conditions.
Fire performance	Reaction to fire class A2-s1,d0.	EN 13501-1 certificate.	For the standard 2 mm product.
Material efficiency	The appearance of stone with only 2–2.5 mm of material.	Composition and data sheet.	Decorative use only, not structural.
Recyclability	At the end of its life, the mineral fraction can be reused as inert filler.	High mineral content.	Depends on local recycling infrastructure.
Durability and maintenance	Suitable for heavy use in private and public spaces. Washable after surface treatment.	NF EN ISO 26987 testing.	Hydrophobic and oleophobic finish recommended.

"Solid stone" means natural stone slabs covering the same surface. Test reports and certificates are available on request: see page 9.



The mineral surface in close-up.

The life cycle in five stages

From production to the end of its life, the veneer passes through five stages.
The claims of this report apply to each of them as follows.

A1–A3
Production
−95 % CO_2
Made by hand in a low-energy, low-water process. Recyclable raw materials. 95 % less raw material.

A4
Transport
−95 % CO_2
About 2 kg/m². One container carries 10,637 m², against 441 m² of solid stone.

A5
Installation
−50 % CO_2
Cut with a knife, no heavy tools, less adhesive on site.

B
Use
Over 20 years
Service life with regular maintenance. Indoor air class A+.

C
End of life
80–90 %
Recyclable share. The mineral part is reused; the polymer is recovered as energy.

System boundaries, with figures

STAGE	INDICATOR	VALUE	COMMENT
Production (A1–A3)	Natural resources	−95 %	Less stone extraction.
Production (A1–A3)	CO_2 emissions	−95 % compared with solid stone	Made by hand in a low-energy, low-water process.
Transport (A4)	CO_2 emissions	−95 %	10,637 m² per container, against 441 m² of solid stone.
Installation (A5)	CO_2 emissions on site	−50 %	Less adhesive, no heavy tools.
Use (B)	VOC emissions	Below 100 µg/m³ (A+)	ISO 16000 test.
Use (B)	Service life	Over 20 years	With regular maintenance.
End of life (C)	Recyclability	80–90 %	Depending on local infrastructure.

The stage codes follow EN 15804 and are given for orientation. This report is a self-declaration under ISO 14021. It is not a life-cycle assessment or an environmental product declaration (EPD).



The veneer is rolled for transport, which is why so much surface fits in one container.

Performance and key standards

The measured properties of the veneer, each with the standard used to test it.

PROPERTY	VALUE	STANDARD
Thickness	2–2.5 mm	NF EN ISO 24346
Format	3000 × 1000 mm	NF EN ISO 24341
Weight per square metre	About 2 kg/m²	NF EN ISO 23997
Dimensional stability	≤ 0.80 %	NF EN ISO 23999
Thermal conductivity	Measured; value available on request	NF EN 12667
Chemical resistance	Excellent with hydrophobic and oleophobic finish	NF EN ISO 26987
Light fastness	≥ 6	NF EN ISO 105-B02
Reaction to fire	A2-s1,d0	EN 13501-1
VOC emissions after 20 days	Below 100 µg/m³, class A+	ISO 16000
Formaldehyde	Not detected	ISO 16000



Thin enough to lift with one hand.



The texture is part of the mineral layer, not a print.

07 · INSTALLATION AND USE

Installation and use

Universal compatibility

Adheres to concrete, plasterboard, wood, MDF and old tiles.

Lightweight handling

About 2 kg/m²: safer to handle and easier to transport.

Clean cutting

Cut with a utility knife, without dust or heavy machines.

Simple bonding

Contact spray adhesive, acrylic adhesive or flexible cement. About 50 % less adhesive is needed.

Adaptability

The flexible veneer wraps complex shapes such as furniture and columns.

Fast installation

Three to four times quicker than traditional materials, which lowers project costs.

Lower CO_2 on site

About 50 % less CO_2 during installation.



Bonding a sheet onto a board in the workshop.

08 · END OF LIFE, MAINTENANCE AND RECYCLING

Maintenance, end of life and recycling

Minimal maintenance

Stain resistant. Cleaned easily with a damp cloth.

Durability

Resists UV light, humidity and impact. Suited to public and private spaces.

Recycled content

90 % recycled marble powder.

Recyclability

The mineral part can be reused. The polymers can be recovered as energy.

Estimated recyclability rate

80–90 %, depending on local infrastructure.

Circular economy

Less landfill waste and new secondary resources.

RECYCLED CONTENT

90 %

recycled marble powder in every sheet

SERVICE LIFE

Over 20 years

with regular maintenance

RECYCLABILITY

80–90 %

depending on local infrastructure

POLYMER SHARE

Energy

recovered at the end of life

Transparency and commitments

Transparency and verification

XSTONE® provides test reports and certificates on request. Independent laboratories have tested the following properties.

VOC emissions	ISO 16000 · class A+
Reaction to fire	EN 13501-1 · A2-s1,d0
Durability and resistance	NF EN ISO 26987 · NF EN ISO 105-B02

All claims are self-declared under ISO 14021 (Type II) and supported by traceable data from our European manufacturing site.



The XSTONE® manufacturing site in Puchenii Mari, Romania.

Values and responsibility

Our culture rests on three values shared by the whole team.

VALUE 01

Transparency

Openness and accountability in everything we do.

VALUE 02

Commitment

Determination and responsibility in every project.

VALUE 03

Innovation

Constant improvement and creative solutions.

VISION AND MISSION

Our mission is to turn mineral waste into premium surfaces that use fewer natural resources, reduce environmental impact and inspire designers and architects worldwide.

Social responsibility

XSTONE® is made in Europe. The company promotes equal opportunities, diversity and inclusion, and keeps the workplace safe through regular training and continuous improvement.

Responsible persons

Quality and Environment Manager	Alexandru Ionut Pulver, XSTONE® GROUP
Contact	info@xstone.group
Signed by	Laurent Gomez, COO, and Uwe Riha, CEO

Laurent Gomez
COO

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Legal disclaimer

The information in this document is based on data considered reliable at the time of publication.

Users are responsible for verifying that the product is suitable for their specific application and conditions of use. No explicit or implied warranty is given regarding performance or fitness for a particular purpose.

XSTONE® GROUP reserves the right to modify data or specifications without prior notice.

The manufacturer shall not be held liable for any misuse or incorrect application of the product.

DOCUMENTS AND ASSISTANCE

Talk to our team

Test reports, certificates and the data behind each claim are available on request. Tell us which document you need, or send us your project; we reply with the documents and a recommendation.

Request samples →

Discuss your project →

xstone.group · info@xstone.group