XSTONE® SURFACES



MINERAL FLOORING · PRODUCT AND TECHNICAL DATA

XSTONE® Floor Installation guide

How to plan and lay XSTONE® Floor: a 5 mm floor tile with a mineral surface, 1200 × 800 mm, for homes and commercial interiors. Written for floor layers, fitters and planners.

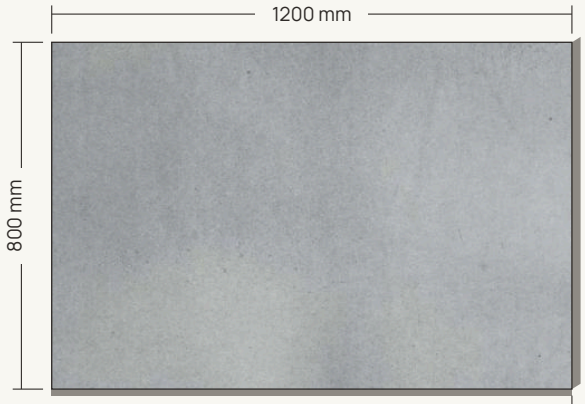
EDITION 11 / 2026 · ENGLISH

XSTONE.GROUP
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The tile at a glance

XSTONE® Floor is a semi-rigid floor tile with a mineral surface. A 1 mm mineral veneer made of 90 % stone powder sits on a permanently elastic base and is sealed with a polyurethane top layer for heavy traffic.

No chlorine, plasticisers or solvents are added. The surface reproduces the look of natural stone, travertine, concrete or rust.



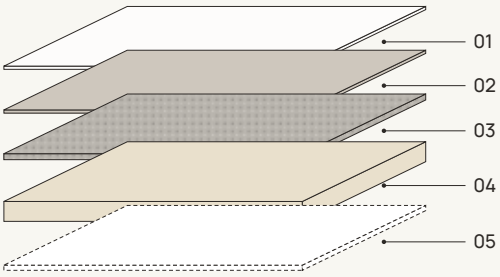
XSTONE® Floor tile · 1200 × 800 mm · 0.96 m²

Drawn to scale.

KEY DATA

PRODUCT	Semi-rigid floor tile with a mineral surface, to EN 16776
FORMAT	1200 × 800 mm
THICKNESS	5 mm
WEIGHT	9 kg/m², about 8.6 kg per tile
BOX	4 tiles · 3.84 m²
PALLET	30 boxes · 115.20 m²
LAYING	Glued to the subfloor over the full surface

LAYER BUILD-UP



Exploded view, not to scale.

01	Polyurethane top layer for intense traffic
02	Colour: acrylic paint or UV print
03	Mineral veneer, 1 mm, 90 % stone powder
04	Base layer, 4 mm: ecuran high-performance composite, made from plant-based oils and natural minerals
05	Backing: integrated FleeceTEC fleece, for easy and comfortable installation



Tiles in a concrete look, laid with staggered joints.



Concrete look in a living room.

Your design, your surface

The colour is applied to the mineral veneer in acrylic paint or by UV printing. That leaves the design open: choose it in the configurator, or ask us to paint or print your own.



A marble design on a sample tile.

OPTION 01

Design it in the configurator

Choose the texture and the colour of your surface online and request samples from there.

Open the configurator →

OPTION 02

Hand-painted on request

We paint any design by hand: a colour matched to your project, a pattern, a one-off surface.

OPTION 03

Printed on request

We print any design onto the mineral veneer: a stone vein, a graphic, a logo.



Light concrete look in a showroom.



Dining area on a light grey floor.



Grey floor in an office.

Where it is used

Homes
Living rooms, kitchens and bathrooms

Workplaces
Offices and meeting rooms

Shops
Retail spaces and showrooms

Cafés
Cafés and restaurants

Senior residences
Quiet, safe and warm underfoot

Properties and technical data

Hard-wearing
Use class 33, for heavy commercial traffic. Resists staining.

Easy to clean
The polyurethane surface is easy to clean and maintain.

Light-fast
High light fastness: the colours resist UV light.

Non-slip
Slip resistance R9, tested to DIN 51130.

For damp areas
Suitable for kitchens and bathrooms.

For underfloor heating
Low thermal resistance lets the heat through.

Low emissions
No chlorine, plasticisers or solvents are added.

Odour neutral
No unpleasant odours.

Low smoke
Fire class Bfl-s1: little smoke in case of fire.

Quiet
The soft surface reduces impact sound.

Warm underfoot
Feels pleasantly warm, for living and playing.

Gentle on the joints
The elastic surface cushions every step.

Tested performance

PROPERTY	STANDARD	RESULT
Product type	EN 16776	Semi-rigid, permanently elastic polyurethane flooring
Use class, domestic	EN ISO 10874	Class 23: heavy domestic use
Use class, commercial	EN ISO 10874	Class 33: heavy commercial use
Reaction to fire	EN 13501-1	Bfl-s1
Slip resistance	DIN 51130	R9
Scratch resistance	EN 16776, Annex A	More than 6 N (use class 33)
Stain and chemical resistance	EN ISO 26987	Very good, depending on concentration and exposure time
Light fastness	EN ISO 105-B02	About 7
Residual indentation	EN ISO 24343-1	Less than 0.10 mm
Furniture leg	EN 424	Foot type 2: no visible change
Castor chair	EN ISO 4918	25,000 revolutions: no damage with type W castors
Thermal resistance	ISO 8302	0.01 m²K/W
Impact sound reduction	EN ISO 10140	About 5 dB
Dimensional stability	EN ISO 23999	Less than 0.15 %
Substances of very high concern	REACH	None above 0.1 %
Disposal	AVV 17 02 03	Households: with normal domestic waste. Businesses: under this waste code.

Before you start

Check the delivery

Check that the tiles arrived undamaged and that every box has the same batch and colour. Lay tiles from one batch only in each room.

Check before you cut. Claims cannot be accepted for tiles that have been cut or laid.

Tools and materials

- ☐ Tape measure, pencil and chalk line
- ☐ Spirit level or straight edge
- ☐ Notched trowel, TKB A2 notch
- ☐ Adhesive approved by XSTONE®
- ☐ Hand pressure roller
- ☐ Segmented roller, at least 50 kg (110 lb)
- ☐ Circular saw
- ☐ Levelling compound, where needed
- ☐ Gloves and safety goggles

We recommend a low-emission, solvent-free dispersion adhesive, for example with the EMICODE EC1 or Blue Angel label. Follow the adhesive manufacturer's instructions.

Check the subfloor

The floor layer checks the subfloor before laying and reports any concern. Do not start if the subfloor is:

- uneven
- not dry enough
- not firm enough, too porous or too rough
- contaminated, for example with oil, wax, varnish or paint residues
- at the wrong height for the adjoining building parts
- at an unsuitable temperature, or in an unsuitable room climate.

Also check that these are in place:

- a joint plan
- an edge insulation strip that stands above the subfloor
- on heated floors, the heating protocol and the marked measuring points.

Level the subfloor

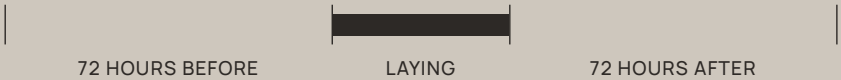
To even out the subfloor and give it a uniform absorbency, apply a suitable levelling compound with a smoothing trowel. On non-absorbent subfloors, and on subfloors sealed against rising damp, the layer must be at least 3 mm thick. Follow the instructions of the product manufacturers.

CLIMATE

Acclimatise the tiles

Bring the tiles and all other materials into the room, or the room next to it, at least 24 hours before laying. Keep them in small stacks of no more than three boxes.

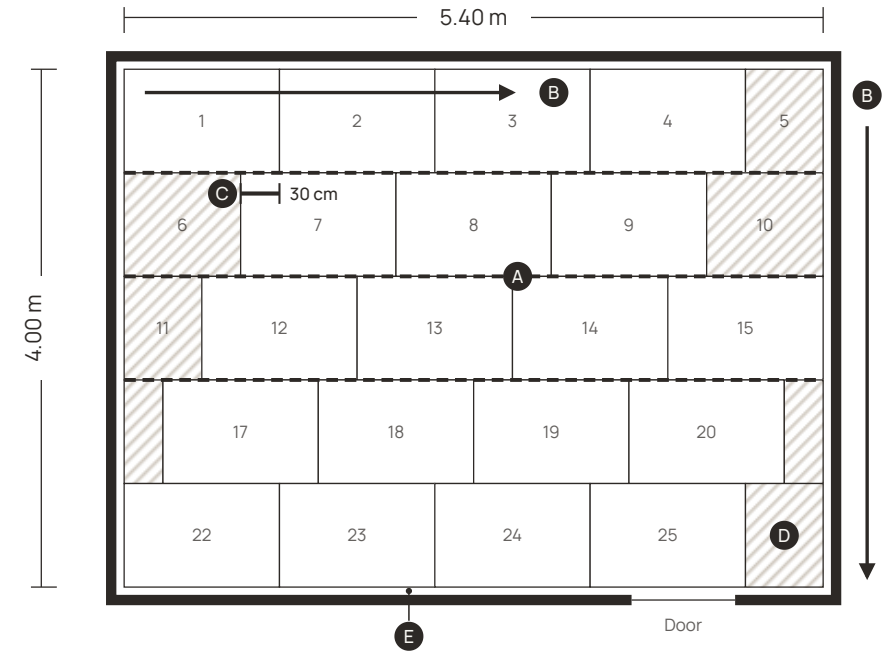
24 h	18–26 °C	15–22 °C	< 65 %
before laying	**room air**	**floor**	**relative humidity**
Tiles and materials in the room	Above 18 °C, not above 26 °C	Above 15 °C, not above 22 °C	Of the room air



Keep this climate constant for at least 72 hours before laying, while you lay, and for 72 hours afterwards, until the adhesive has set.

Plan the layout across the room

Plan before you spread any adhesive. Measure the room and divide it by the tile format, so that the joints run evenly and as little material as possible is wasted.



EXAMPLE ROOM

Room	5.40 × 4.00 m
Area	21.6 m²
Tile	1200 × 800 mm
Rows	5
Offset	30 cm

How much to order. One box covers 3.84 m². For 21.6 m², order six boxes.

Full tile
Cut tile
----- Chalk line
1–26 Laying order

A

Mark the first three rows

Transfer them to the subfloor with a chalk line, including the distance to the wall.

B

Lay row by row

Start in a corner and work along the wall, then row by row towards the door.

C

Stagger the joints

Offset the end joints by about 30 cm from one row to the next.

D

Cut the last tile to fit

The hatched tiles are cut to length at the end or the start of a row.

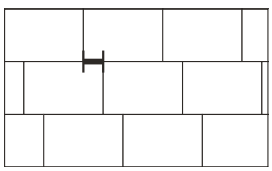
E

Keep the edge joint open

Leave a gap at walls and door frames. It prevents sound bridges and compression.

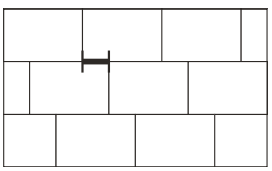
Joint offset and edge joint

Keep the end joints of neighbouring rows apart.



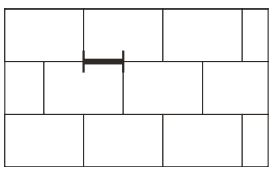
OFFSET 30 CM

A quarter of the tile length. The smallest offset we recommend.



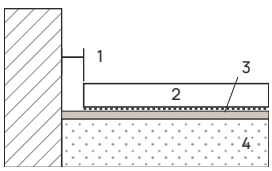
OFFSET 40 CM

A third of the tile length.



OFFSET 60 CM

Half the tile length, as in brickwork.

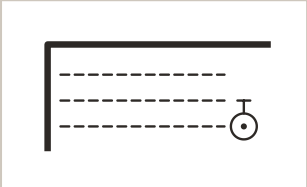


EDGE JOINT · SECTION

1 Open joint at the wall · 2 Tile · 3 Adhesive · 4 Levelled subfloor

Laying the tiles, step by step

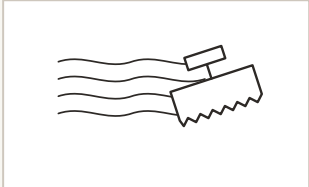
The tiles are glued to the subfloor over their full surface, with an adhesive approved by XSTONE®. Follow the adhesive manufacturer's instructions at every step.



STEP 01

Mark out

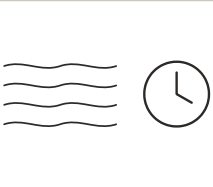
Snap chalk lines for the first three rows, including the distance to the wall.



STEP 02

Spread the adhesive

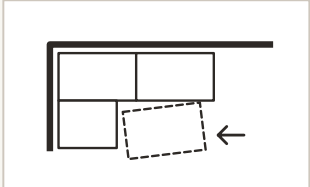
Apply the approved adhesive evenly with a TKB A2 notched trowel.



STEP 03

Let it flash off

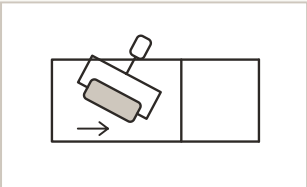
Wait as the adhesive manufacturer instructs. The time depends on the room climate.



STEP 04

Lay the tiles

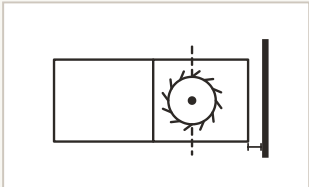
Place each tile in the tacky adhesive, tight to the next and without tension. Offset the joints by about 30 cm.



STEP 05

Press down

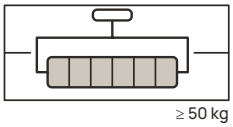
Press the whole surface with a hand pressure roller, so that the adhesive wets the entire back of the tile.



STEP 06

Cut to fit

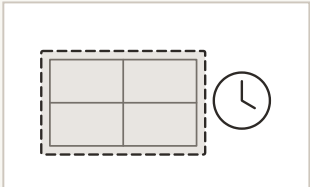
Mark the last tile and cut it with a circular saw. Leave the joint at walls and door frames open.



STEP 07

Roll the floor

Roll slowly and evenly with a segmented roller of at least 50 kg (110 lb). Use the hand roller along the edges.



STEP 08

Let it set

Keep the floor free of traffic and loads until the adhesive has set completely.

AFTER LAYING

Protect the finished floor

Until handover, the installer protects the floor from damage by other trades. Cover it with vapour-permeable material only. Once an area has been accepted, its protection passes to the client.



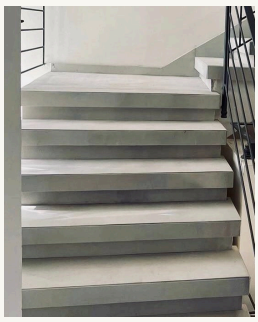
A finished floor in a café.

Projects and certifications









Meeting room in a dark concrete look · Retail store · Showroom in Berlin · Stairs in a concrete look

Made with recycled stone

XSTONE® makes the 1 mm mineral veneer of every tile from 90 % recycled marble powder. The process reuses quarry waste and limits the use of energy and water.

Reaction to fire	Bfl-s1 (EN 13501-1)
Indoor air	The mineral veneer is rated A+ for VOC emissions
Marking	Products certified to European standards (CE)

CE. Certified to European standards.

A+. Indoor air emissions, the best class.

BREEAM. Contributes to Materials and Resources, Indoor Environmental Quality and Innovation in Design.

LEED. Contributes to MRc1 Construction Waste, MRc2 Building Life-Cycle Impact, MRc4 Material Ingredients and MRc5 Responsible Sourcing.

Credit contributions depend on the project and the assessment version. Ask XSTONE® for the supporting documents.

TECHNICAL ASSISTANCE

Talk to our team

If you have a question before or during installation, our technical team will guide you. Send us your floor plan and photos of the subfloor; we reply with a recommendation.

Request samples →

Discuss your project →

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STONE CHARACTER. FREEDOM OF FORM.