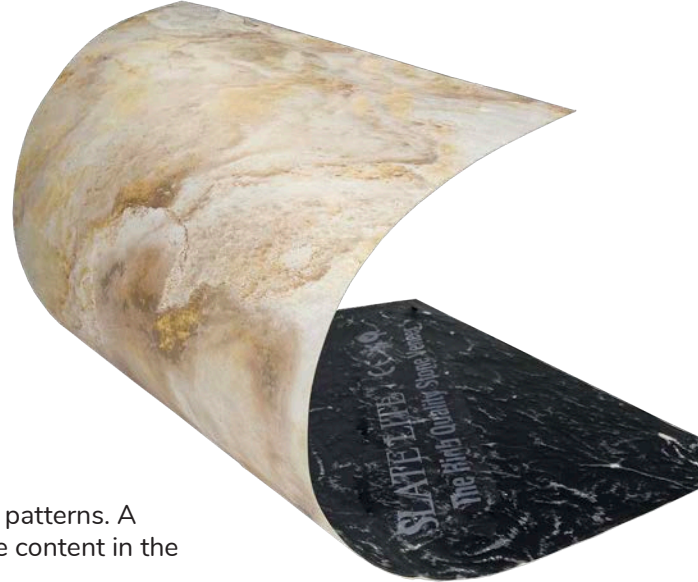




Slate-Lite: Processing instructions



Slate-Lite is made from layered stone. Differences in color in the individual slabs as well as quartz veins running through the stone, natural cracks or slight chipping may occur. This is not a reason for complaint, but is a characteristic of the natural stone surface!



BASIC CHARACTERISTICS OF OUR STONE TYPES:

SLATES have a somewhat softer stone surface and impress with their richness of color and constantly changing patterns and structures.

MYCAS usually have a somewhat rougher surface with homogeneous patterns. A special eye-catcher is the glossy effect created by the natural quartzite content in the stone.

LIMESTONE is characterized by a rather smoother surface with relatively homogeneous patterns and structures. Limestone is not suitable for outdoor and wet areas!

SANDSTONE is characterized by a slightly rough, rather grainy surface with slight differences in height. The sandstones can have smaller elevations in places with a greater overall thickness!

MARBLES are characterized by their rough surface with different and constantly changing patterns and structures. Strong veins and elevations in the surface are typical features.

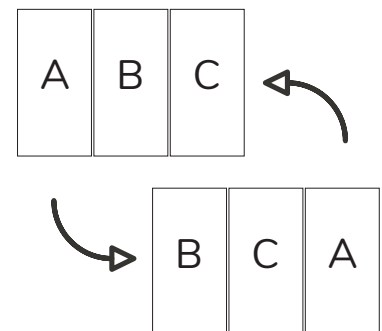
The marbles are rough to the touch and have partial structures with greater overall thickness, as well as greater overall tension in the sheet!

PREPARATION

Before starting work, check your stone veneers for faults, defects or damage.

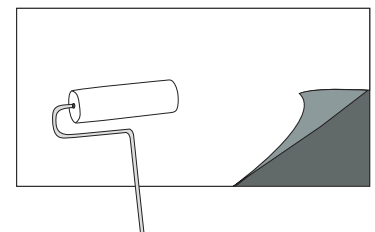
To achieve an attractive wall/arch appearance, spread out all stone sheets before starting work and determine the order and arrangement of the stone veneers.

IMPORTANT: All stone sheets must be laid completely flat before processing, even large formats! Please observe the tips and information in the Slate-Lite data sheet below.



PROTECTION

Depending on the installation location, you can/should protect your stone veneers with an additional impregnation or sealant. As a rule, this protective product is applied with a short pile roller using the crosswise method. Please always follow the detailed processing instructions and notes for the selected protective product.





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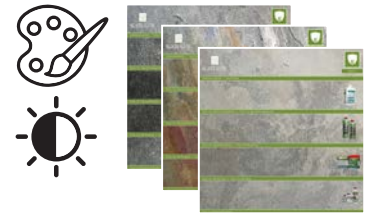
Slate-Lite: Processing instructions

The impregnation/sealing process can be carried out both before and after processing.

When processing in wet areas, it is best to protect the stone veneers after cutting and gluing to avoid open areas.

Depending on the decor, the impregnation or sealing process can cause the color to deepen to varying degrees.

Please refer to the respective comparison images in our online galleries for each decor and always carry out a test on a remnant piece beforehand to see the result for yourself.



ADHESIVE

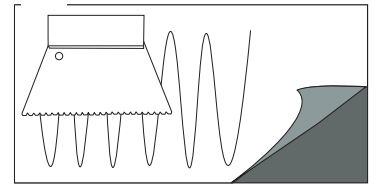
Apply the appropriate adhesive either to the back of the stone sheet or directly to the surface to be processed.

Spread the adhesive over the entire surface with a B3 notched trowel and ensure that the grooves are evenly formed (do not smooth out the adhesive!).

Then apply the *Slate-Lite* sheet to the intended surface and fix the material with light and even pressure by hand or pressure roller.

As a rule, the stone sheet is fully loadable after 48 hours.

The position can still be easily changed immediately after the stone sheet has been attached.



NOTES: We recommend wearing rubber gloves.

To achieve optimum results, work with a spirit level and lay the material from bottom to top. Adhesive residue on the sheet can be removed with our special cleaners.

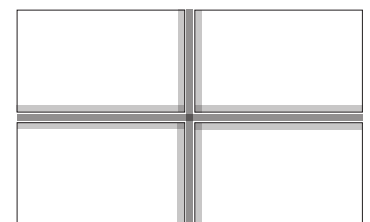
ADHESIVE RECOMMENDATION: *Slate-Lite Extreme Adhesive*.

For bonding at temperatures between 90°C and 250°C (stove/oven), please contact our sales department for a current adhesive recommendation.

INSTALL WITH OR WITHOUT JOINT

Slate-Lite can be laid with or without joints.

Perfect joints are achieved using joint pastes. Glue the stone veneers with the desired joint width (use a joint cross if necessary). If necessary, mask the edges of the stone sheet with masking tape*) and apply and smooth the grout as specified by the manufacturer.





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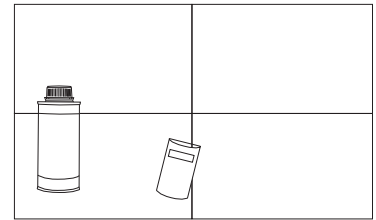
Slate-Lite: Processing instructions

PRODUCT RECOMMENDATION: Nanofug Premium

*) If masking tape is used, care must be taken to ensure that no traces of adhesive remain. Do not use adhesive tape on surfaces that have already been sealed or adhesive tape with too high an adhesive effect and do not leave the adhesive tape on the material for too long.

With jointless processing, adhesive may leak out of the joint edge. The most efficient way to prevent this is to leave a narrow border on the reverse side at the edges free of adhesive. (When laying in wet or outdoor areas, this free edge should be omitted to ensure correct sealing). If adhesive is applied to the installation surface, no or less adhesive should normally ooze out.

Any adhesive residue can be removed with our special cleaners. If there are gaps at the edges, these can be filled with our *Slate-Lite* cold wax in a matching color.

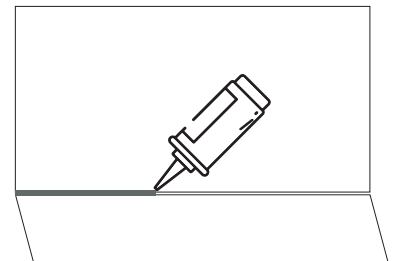


SILICONE SEALS

If you would like to use silicone for sealing or as a finishing edge, please use Ottoseal S70 natural stone silicone.

In a series of tests, this was able to impress with its durability and adhesion to our stone veneers, even with sealed material.

Test each silicone application in advance on a test piece and have it carried out by a specialist if necessary.

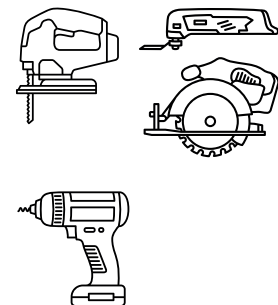


CUTTING AND DRILLING

Slate-Lite stone veneers can be cut or drilled using all standard wood or metalworking tools.

These include, for example, circular table saws, circular hand saws, jigsaws, multitools, flex, large format saws, lasers, CNC, water jets, etc.

We recommend using saw blades with medium teeth and cutting from the back of the stone blade.





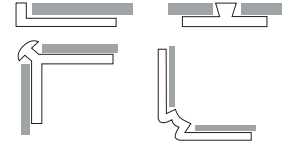
Slate-Lite: Processing instructions

CORNERS

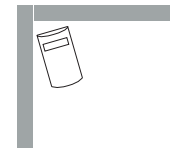
There are several options for optimum corner finishing:

(A) Profile strips: We offer matching profile strips in various colors for a simple and elegant edge finish.

We offer end edges, butt edges, inside corner profiles and outside corner profiles.



(B) Edge to edge: Glue stone veneers to the desired edge and lay them end to end. Then carefully sand and finish. If necessary, fill any gaps with Slate-Lite cold wax in a matching color.

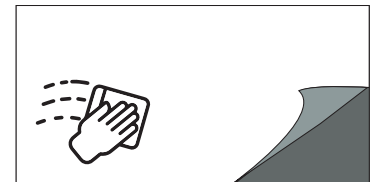


(C) Mitre cut: Create a suitable mitre cut on the joint edges before processing. This can either be done directly with the Slate-Lite material itself or, depending on the application, together with a pressed backing material.



CLEANING

Slate-Lite can be cleaned with all commercially available, non-corrosive household cleaners. In most cases, clear water and a lint-free cloth or brush will suffice.



Please carry out all processing steps carefully and calmly.

Ensure that you work cleanly and precisely to avoid contamination or errors during processing.

Familiarize yourself with the material in advance using test pieces and ensure that each processing step can be carried out correctly.

If you have any questions, please clarify them with our sales department before processing.



Slate-Lite: Data sheet

PRODUCT

Slate-Lite consists of an approx. 0.1 - 1.4 mm thin stone layer and a carrier material made of polyester reinforced with glass fibers to ensure the stability of the product.

MATERIAL COLOR AND COLOR DEVIATIONS

Natural stone is an absolutely timeless, natural product that has evolved over millions of years. Variations in color and pattern can therefore occur. However, we strive to provide you with a product that is as uniform as possible, with a very similar color and texture.

For large areas, please contact us to obtain a color scheme that is as homogeneous as possible. We also offer a photomatching service.

The available colors and decors can be found in our current catalog, sample sets or the online store.

MAIN COMPONENTS

Stone layer <i>(approx. values in %)</i>		Back <i>(approx. values in %)</i>
Oxygen (O)	44,6	73,0
Carbon (C)	31,0	26,0
Silicon (Si)	13,0	
Aluminum (Al)	5,6	
Iron (Fe)	3,4	
Potassium (K)	2,4	

FORMALDEHYDE

Slate-Lite is free of formaldehyde.

STANDARD SIZES

Standard format: 1.220 x 610 mm
Large formats: 2.400 x 1.200 mm
2.800 x 1.200 mm

All three sizes are available in most decors and are mostly in stock. Please contact our sales department for exact availability.

*) Please note that size deviations of ±1.5 mm in width, length or diagonal are possible for production reasons.

WEIGHT

approx. 1,5 – 2,8 kg/m²

TOTAL STRENGTH

approx. 1,5 – 2,5 mm

DENSITY

1,45 kg/m³

EXPANSION

0,5 – 0,8 mm
(with a temperature fluctuation of -40 to +90°C on the running meter)

TEMPERATURE RESISTANCE

up to 120°C

BENDABLE RADIUS

approx. 5 cm

TEST ACCORDING TO ASTM / C-121

Water absorption of the unsealed material + 2.5%.



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Slate-Lite: Data sheet

UV RESISTANCE

Weathering causes hardly any or minimal uniform deviations in the coloring.

Test method: Resistance to UV radiation (UV-B) according to DIN EN ISO 11507

Test cycle: 4 hours; irradiation 50°C / 4 hours; Condensation 40°C

Test duration: 1,000 hours with evaluation after 250h, 500h, 750h

Evaluation: Color change according to DIN EN ISO 11664-4, Sp62 X-Rite

Measuring geometry: d/8°, illuminant: D65

VOC EMISSION TEST

Slate-Lite achieved category A + in all emission classes in the test.

The Falling Leaves decor was tested as an example - the test institute was even able to end the test early due to the extremely low emissions measured.

FIRE CLASS

Slate-Lite has achieved EU class Cfl-s1 (according to EN 13501-01 for floor coverings) or B1 (according to DIN 4102).

Fire class according to US standard: C (ASTME84).

Slate-Lite is also available to order as EU class Cs3d0 (wall coverings). For further questions, please contact our sales department.

ABRASION TEST

Abrasion test according to DIN EN ISO 10545-7: Class 1 was achieved here. The Silver Grey decor was tested.

Class characteristics: Floors with light traffic, barefoot or with slippers.

SLIDING CLASS

Slate-Lite has achieved slip classes R9 (for variegated slate), R10 (for mica slate) and R11 (with Silver Grey).

CE LABEL

Slate-Lite has been approved according to CE standard:

DIN EN 15102:2011-12

DIN EN 15102:2008+A1:2011

SELF-ADHESIVE MATERIAL

Some sizes and decors are available with self-adhesive film.

Adhesive strength: 18N / 24MM @ 180° peel.

Self-adhesive material is only suitable for use indoors and outside wet areas. Please note that it is not possible to subsequently change the position of self-adhesive material.

PROCESSING TEMPERATURE

Recommended processing temperature: 10°C to 35°C.

AREAS OF APPLICATION

Doors and gates, stove construction, ceilings, walls, roofs, wet areas (shower/bathroom), furniture and as facade cladding.

Note: The ICE PEARL and GREEN PEARL limestone decors are not suitable for wet and outdoor use! Please do not use the marble decors in chlorinated water. Use as a floor covering is always at your own risk and discretion!



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Slate-Lite: Data sheet

SUBSTRATES

Wood, metal, glass, plasterboard, concrete, fiber cement, lightweight panels, acrylic, etc.

Please observe the instructions and data sheets for the adhesives or plastics used when processing the substrate.

PROCESSING TOOLS

Standard tools: Sawing with a wood saw blade and drilling with a metal or wood drill.

Slate-Lite can be cut with a hand or table saw, jigsaw, CNC router, multitool or similar.

For industrial processing, we recommend a carbide or diamond saw blade with a minimum toothing of 72 teeth.

Shape cutting is also possible using a water jet or laser. For further information, please contact our sales department.

If masking tape is used, care must be taken to ensure that no traces of adhesive remain. Do not use adhesive tape on surfaces that have already been sealed or adhesive tape with excessive adhesive strength and do not leave the adhesive tape on the material for too long.

Please test any adjustments to the material and tools used on an inconspicuous area or sample beforehand. Only use stone sheets that have been able to lie flat and are completely relaxed!

PRESSING ON WOOD, RIGIPS and HARD FIBER

Pressing with spray contact adhesive (Hranifix Premium) or 1-component PU adhesive (polyurethane).

Thickness-compensating additives: backing paper 120 g/m² or linoleum.

Use additional 7 mm rubber inserts with a hardness of 50 Shore. The pressing pressure must be selected carefully depending on the design of the press.

CLEANING

All natural stone surfaces must be regularly wiped with a damp cloth despite impregnation or sealing. Use a lint-free cloth for this purpose.

Important note: Acid cleaners can damage the surface of the stone!

SURFACE PROTECTION

For detailed information on our impregnations and sealers, please refer to the respective product data sheets and instructions.

Grid tests of various test substances can be found at the end of this data sheet in the appendix.

ADHESIVE PRODUCTS

For detailed processing instructions for Slate-Lite, please refer to the respective data sheets and instructions for the product.

We generally recommend *Slate-Lite Extreme Adhesive* for bonding, which is available directly from us. This can be used both indoors and outdoors, as well as in wet areas.

For bonding in areas with temperatures of 90°C to 127°C (fireplace/oven), we recommend the use of a different adhesive, e.g. Hranifix Premium.



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Slate-Lite: Data sheet

Slate-Lite is always bonded with polymer adhesives using a B3 notched trowel.

SILICONE SEALS

If you want to use silicone for sealing or as a finishing edge, please use the natural stone silicone from Ottoseal, as other silicones may not adhere properly.

STORAGE

The material should be stored horizontally and flat to avoid deformation.

The material should be stored in a dry, frost-free place protected from sunlight. Strong temperature fluctuations should be avoided as this could deform the material.

QUALITY ASSURANCE

To guarantee quality, a German quality inspection is carried out. From the purchase of the raw material to the dispatch of the material, every sheet is subjected to a strict quality check. Each sheet is inspected by several inspectors before dispatch and will not be sent out if there are even the slightest defects.

SHIPPING / UNBOXING

Our standard format of 122 x 61 cm is sent to you stacked in a flat shipping box. Depending on the design, up to 15 sheets fit into one package.

Large formats with 240 x 120 cm and 280 x 120 cm are sent on a pallet or rolled. To do this, we heat the entire surface of the sheet and carefully roll it up.

Up to 2 large formats fit into one box.

Please always open all packaging carefully and ensure that you do not leave any scratches on the material. Check directly on receipt of the goods whether the corners of the pallet or carton are damaged and have this confirmed by the carrier.

Rolled large formats are best heated over a large area and should be laid out completely flat before processing! Do not unroll the material too quickly or when it is cold, as this can lead to damage. No cracking noises should be heard when unrolling! The optimum temperature for unrolling is between 30 - 70C°

Please note that small stone chips do not represent any damage to the material, but are rather a quality feature of the genuine natural stone surface: Despite small stone chips in the package, the *Slate-Lite* sheet is usually completely undamaged and the stone surface is intact over the entire surface!

In addition, slight superficial scratches may occur on the material, which unfortunately cannot be avoided due to storage and transportation. Such light scratches can be easily wiped away with a lint-free cloth and do not constitute damage to the material!

A detailed FAQ video on shipping and unpacking the goods is available on our homepage and on YouTube.

All common modes of transportation are suitable: sea and air freight as well as courier shipments. As *Slate-Lite* is very light, it can be shipped worldwide without any problems.



Slate-Lite: Data sheet

For urgent shipments, it is even advisable to send them by courier.

If you have any questions about shipping, you can request the current conditions sheets from our sales department.

ECO-BALANCE

With *Slate-Lite*, you are opting for an environmentally friendly stone decoration. The emission rates during transportation are many times lower with *Slate-Lite* than with conventional stone slabs, resulting in a significantly more positive ecological balance.

The majority of our goods are shipped by sea to our central warehouse. With a pollutant quantity of approx. 15.1 grams of CO₂ emissions per kilometer (source: NABU), the following example calculation of one of our containers results:

(Comparative calculation: India/Germany sea route, granite slab vs. slate-lite)

	Transport route	Material (m ²)	Load (kg)
Slate-Lite	Sea container 40	10.637 m ²	26.500 kg
Granite slab (2 cm)	Sea container 40'	441 m ²	26.500 kg
	Distance (km)	CO ₂ emission (g)	CO ₂ emission / m ²
Slate-Lite	7.500 km	3.001.125,00	282,12 g
Granite slab (2 cm)	7.500 km	3.001.125,00	6.806,27 g

A sheet of *Slate-Lite* therefore produces approx. 95% less CO₂ than a conventional thick stone slab during transportation.

In addition, the manufacturing process we have developed also conserves natural resources in the quarries:

From the stone material of a single conventional stone slab of 2 cm, we obtain 200 - 300 slabs of *Slate-Lite*, depending on the decor.

SPECIAL OFFERS & FURTHER INFORMATION

Do you need more detailed information about a specific decor?

A daily updated list of all available maximum and special sizes as well as detailed lists of application areas per decor and detailed information on adhesive and protective products are available on request from our sales department.

INFORMATION: MATERIAL TESTING AFTER RECEIPT

Slate-Lite is made from layered stone. Differences in color in the individual slabs as well as quartz veins running through the stone, natural cracks or slight chipping may occur.

This is not a reason for complaint, but is a characteristic of the natural stone surface! Should you nevertheless discover a defect or excessive changes in color and structure in the goods sent, please inform us immediately within 14 days. Goods that are processed despite obvious defects are excluded from any recourse claims!