

DATASHEET: FLEXIBLE STONE VENEER

PRODUCT

Stone Veneer consists of an approx. 0.1 - 1.4 mm thin stone layer and a carrier material made of a 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 developed within millions of years. Deviations in coloration and pattern may therefore occur.

However, we strive to provide you with a product that is as uniform as possible, with a strong resemblance in coloration and texture.

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

For available colors and decors, please refer to our current catalog, sample booklets or online store.

MAIN COMPONENTS

Stone layer		Back
approx. values in %		approx. values in %
Oxygen (O)	44.6	73.0
Carbon (C)	31.0	26.0
Silicon (Si)	13.0	
Aluminum (Al)	5.60	
Iron (Fe)	3.4	
Potassium (K)	2.4	

FORMALDEHYDE

Stone veneer is formaldehyde-free.

STANDARD SIZES

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Standard format: 1,220 x 610 mm

Large formats: 2,440 x 1,220 mm

3,050 x 1,220 mm

All three sizes are available in most decors and mostly in stock. For exact availabilities please contact our sales department.

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

WEIGHT

approx. 1.5 - 2.8 kg/m²

TOTAL THICKNESS

approx. 1.5 - 2.5 mm

DENSITY

1,45 kg/m²

EXTENSION

0.5 - 0.8 mm

(at a temperature variation of 90°C on the linear 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%.

UV RESISTANCE

“Weathering” results of testing are little or minimal uniform variation in coloration.

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

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

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

Evaluation: color change according to DIN EN ISO 11664-4, Sp62 Fa. X-Rite

Measuring geometry: d/8°, illuminant: D65

VOC EMISSIONS TEST

We achieved category A + in all emission classes in the test.

FIRE CLASSIFICATION

We have 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).

Stone Veneer is also available to order as EU class Cs3d0 (Walls). For further questions please contact us.

ABRASION TEST

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

Class characteristics: Light use, barefoot or with slippers

SLIP CLASS

Stone veneer has achieved slip classes R9 (for variegated slate), R10 (for mica slate), and R11 (with Silver Grey).

CE MARKING

Our stone veneer 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 as a variant with self-adhesive film.

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

Self-adhesive material is suitable for indoor and non-wet area use only. Please note that a subsequent change of position is not possible with self-adhesive material.

PROCESSING TEMPERATURE

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

FIELDS OF APPLICATION

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

Note: Self-adhesive panels 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 at your own discretion!

SUBSTRATES

Wood, metal, glass, sheetrock, concrete, fiber cement, lightweight boards, etc.

Please observe the instructions and data sheets of the adhesives or plastics used for substrate preparation.

PROCESSING TOOLS

Commercial tools: sawing with wood saw blade and drilling with metal or wood drill.

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

If painter 's masking tape is to be used, care must be taken not to leave adhesive traces. Do not use tape on surfaces that have already been sealed, as well as tape that is too adhesive, and do not allow the tape to remain on the material for too long.

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

PRESSING ON WOOD, RIGIPS AND HARDFIBERS

Pressing with 1-component PU adhesive (polyurethane) to achieve the best results. Thickness-compensating allowances: backing paper 120 g/m² or Linoleum. Use additional 7-mm rubber inserts with a hardness of 50 Shore. Carefully select the pressing pressure depending on the design of the press.

CLEANING

All natural stone surfaces must be wiped regularly 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

Any natural stone surface impregnators or sealer can be used to seal the surface. Please check for desired properties with impregnator manufacturers such as matt, gloss or enhancer. We can also guide you for this at the time of purchase according to the purchased stone type.

ADHESIVE PRODUCTS

For bonding, we generally recommend Stone Veneer Extreme Adhesive which is basically Polyurethane adhesive. This can be used both indoors and outdoors, as well as in wet areas. For bonding in areas with temperatures from 90°C to 127°C (fireplace/oven), we recommend the use of a different adhesive that is Polyurethane based but has a higher fire-retardant rating.

Stone Veneer is always bonded with polymer adhesives using a B3 notched trowel. We also can provide guide you about the adhesive brands available in local market which suits the best for your uses.

SILICONE SEALANTS

If you want to use silicone for sealing or as a finishing edge, please check if it suitable for Natural stone installation with manufacturer.

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. Severe temperature fluctuations should be avoided as this could deform the material.

QUALITY ASSURANCE

To ensure the quality, a multistage inspection takes place. Starting from the

rigorous raw material selection to the shipment of the material, each sheet is subjected to a strict quality inspection. Each sheet is inspected by several inspectors until it is shipped and will not be shipped if there is the slightest defect.

UNBOXING

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

Rolled large formats must best be heated over a large area and should be laid out completely flat before processing! Do not unroll the material too quickly or when cold, as this may cause damage. No cracking noises should be heard during 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 for the real natural stone surface: Despite small stone chips in the package, the Stone veneer sheet is usually completely undamaged and the stone surface is intact over its entire surface!

Furthermore, slight superficial scratches on the material may occur, this is unfortunately unavoidable due to storage and transport. Such light scratches can be easily wiped away with a lint-free cloth and are also no damage to the material!

All common modes of transportation are suitable: sea and air freight as well as courier shipments. Since Stone veneer is very light, it can be shipped worldwide without any problems. For urgent shipments, it is even recommended to send by courier.

If you have any questions about shipping, please contact our sales department.

LIFE CYCLE ASSESSMENT

With us you are choosing an environmentally friendly stone decoration!
The emission rates on the transport routes are many times lower with Stone Veneer than with conventional stone slabs, which leads to a significantly more positive eco-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 emission per kilometer (source: NABU) the following example calculation of one of our containers results:

(Comparative calculation: sea route India to Austria. granite slab vs. Stone Veneer)

	Transportation	Material (m²)	Weight (kg)
Stone Veneer	Sea container 40	10.637 m²	26.500 kg
Granite Slab – 2cm	Sea container 40'	441 m²	26.500 kg
	Distance (km)	CO ₂ emission (g)	CO ₂ emission / m²
Stone Veneer	7.500 km	3.001.125,00	282,12 g
Granite Slab – 2cm	7.500 km	3.001.125,00	6.806,27 g

So one sheet of Stone Veneer produces about 95% less CO₂ than a conventional thick stone slab during transport.

Furthermore, 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 80-100 sheets of Stone Veneer, depending on the decor.

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