

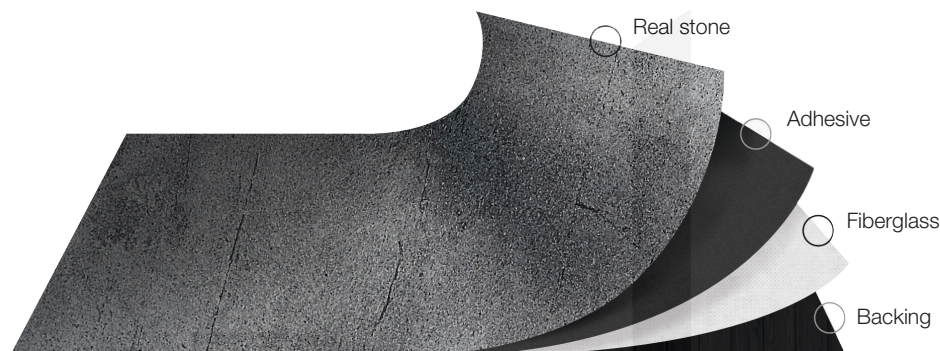


SLATE LITE™

# SLATE LITE™

Data sheet

31.03.2017



DIN EN 15102:2011-12  
DIN EN 15102:2008+A1:2011



## PRODUCT

*Slate-Lite* consists of a layer of natural slate with 0,1 – 0,4 mm and a backing made of natural polyester with glass fiber for strength and dimensional stability.

## MATERIAL COLORS AND CHANGES

Natural stone is an absolute timeless natural product, which evolved over millions of years in the earth's crust. Form and color variation are possible and invariably make every square meter to a unique design. We are always striving for little color variation in lots and structurally similar sheet decors. For large areas you should contact us if a specific color and structure is required.

Please check our main catalogue or the sample set for the complete range of colors and patterns.

## TECHNICAL DATA

### MAIN COMPOSITIONS

Top layer:	(in %)	Back layer:	(in %)
Oxygen (O)	44,6	Oxygen (O)	73,0
Carbon (C)	31,0	Carbon (C)	26,0
Silicone (Si)	13,0		
Aluminium (Al)	5,6		
Iron (Fe)	3,4		
Patassium (K)	2,4		

*Slate-Lite* is free of formaldehyde.

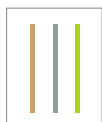
### STANDARD SIZES

Standard size: 1.220 x 610 mm. Large format: 2.400 mm x 1.200 mm.

Alternate large format on order: 2.600 mm x 1.200 mm.

All three sizes are available for most colors and decors.

\*) The dimensional tolerance is  $\pm 1,5$  mm in length, width and at the right angles.



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WEIGHT	THICKNESS	DENSITY
approx. 1,5–2,8 kg/m²	1,5–2,0 mm	1,45 kg/m²

THERMAL EXPANSION	TEMPERATURE RESISTANCE	BENDABLE RADIUS
0,5–0,8 mm (by temperature variations up to 90°C)	up to 120°C	approx. 5 cm

#### TEST ACCORDING TO ASTM / C-121

Water absorption in unsealed surface +2,5%

#### UV-RESISTANCE TEST

Resistance against UV radiation (UV-B) to DIN EN ISO 11507.

Test cycle: 4 hours; Radiation 50°C

4 hours; Bedew 40°C

Duration of test: 1.000 hours rating after 250 h, 500 h, 750 h

Rating: Change in color to DIN EN ISO 11664-4, Sp62 Fa. X-Rite

Measurement geometry: d/8°

Kind of light: D65/10° observation angle, measurement of brightness to DIN 67530

#### FIRE RESISTANCE

*Slate-Lite* has reached fire protection class Cfl-s1 (EN 13501-01) / B1 (DIN 4102). *Slate-Lite* is also available in a fire retardant version reaching class C d0s3 in European Burning Classification.

#### ABRASION TEST

Abrasion test according to DIN EN ISO 10545-7: Reached Class PEI 2 without surface treatment. (Tested: *Falling Leaves* and *Argento*).

PEI 2: Tiles for areas with average traffic and medium to low abrasion, e.g. studying rooms, living rooms.

#### SLIP CLASS

*Slate-Lite* has reached slip classes R9 (Slate) / R10 (Myca).

#### CE-CERTIFICATION

*Slate-Lite* has been approved by CE-Standard: DIN EN 15102:2011-12  
DIN EN 15102:2008+A1:2011



## PROCESSING INSTRUCTIONS

### PROCESSING TEMPERATURE

10°C to 35°C are recommended.

### FIELDS OF USE

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

Please note that the limestones are not suitable for wet areas or outdoor areas.

### SUBSOILS

Wood, metal, glass, rigs, concrete etc.

Please note the instructions and data sheets of all used adhesives or plastics used for subfloor processing.

### TOOLS TO WORK WITH

Any commercially available tool (DIY-Tools): Sawing, drilling, milling, cutting, bending, pressing. For industrial processing, we recommend using diamond blade tools due to strong wear on wood blades. If masking tape is used, please make sure, that no adhesive is left on the sheet. So please use tape with low adhesion and do not leave the tape on the surface for too long.

Test any adjustments to the material and tools beforehand in an inconspicuous place.

### LAMINATION ON WOOD, METALS, PLASTERBOARDS, FIBER CEMENT

Lamination with 1-Component-PU-Adhesive (Polyurethane), such as *Slate-Lite PU*.

Compensating additives: Backing paper 120 g/m<sup>2</sup> or 0,8 mm HPL.

Use an additional 7 mm rubbers with a hardness of 50 Shore.

Depending on the design of the press, the pressure must be carefully selected.

### CLEANING

All natural stone surfaces, even if impregnated (sealed), must be wiped moist regularly. Please use a lint-free cloth.

Important note: Acid cleaners attack the surface of the stone!



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## SURFACE PROTECTION



Walls



Stress level

Slate-Lite  
Special Impregnator



Walls



Wet areas



Stress level

Slate-Lite  
Special Protection



Walls



Wet areas



Stress level

Slate-Lite  
2K-Protection Wall



Floors



Stress level

KLB  
PU 805 E

## STORAGE AND SHIPPING

### STORAGE

The storage of unsealed material must be dry, preferably frost-free and sun protected. Protect against climatic influences.

Material should be stored flat in order to avoid deformation.

### QUALITY ASSURANCE

For quality assurance, a german quality management is used. Starting in the purchase of the slate raw-material until the eventual shipment of the finished *Slate-Lite* each square cm of the product is out through a strict quality control. All products are inspected by several quality inspectors and tested until the final release to be shipped.

### SHIPPING

Normaly, *Slate-Lite* is packed into boxes and put on paletts or delivered without a palett. All transport lines can be used. Due to it's low weight, *Slate-Lite* can be sent worldwide with low cost. For quick delivery even a parcel service can be used.

	Stock Europe Box   Palett	Factory India Slate   Myca	
122x61	15 pcs.   175 pcs.	350 pcs.   300 pcs.	
240x120	2 pcs.   30 pcs.	200 pcs.   180 pcs.	*) Delivery from the factory: 25 pcs. per box in a wooden crate

### DISTRIBUTORS

R&D GmbH has an almost worldwide distribution network. Simply send us your request and we will redirect them to their respective distributors.

