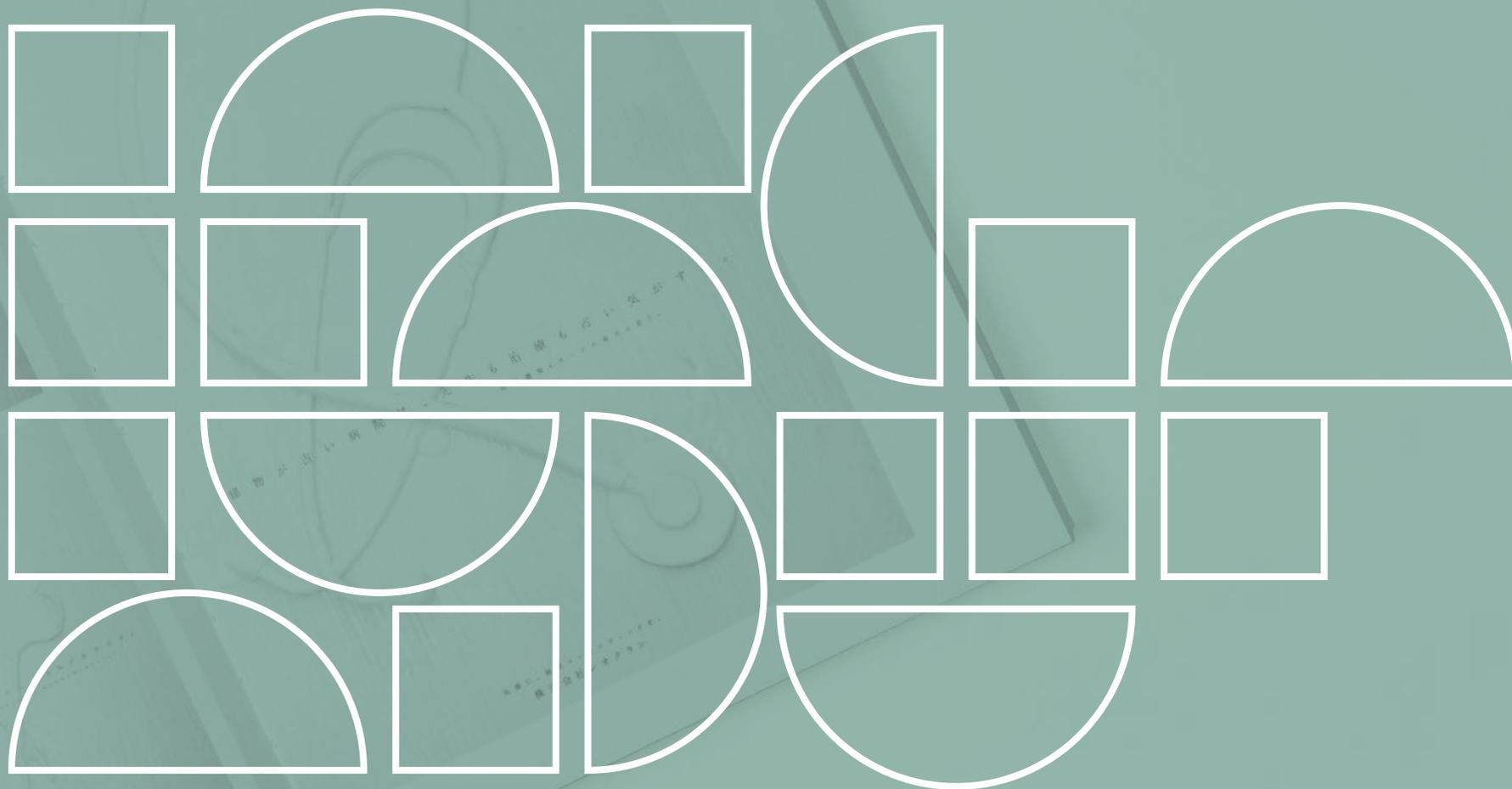


Lapitec Silica free



Vers. EN-0/2021



LAPITEC
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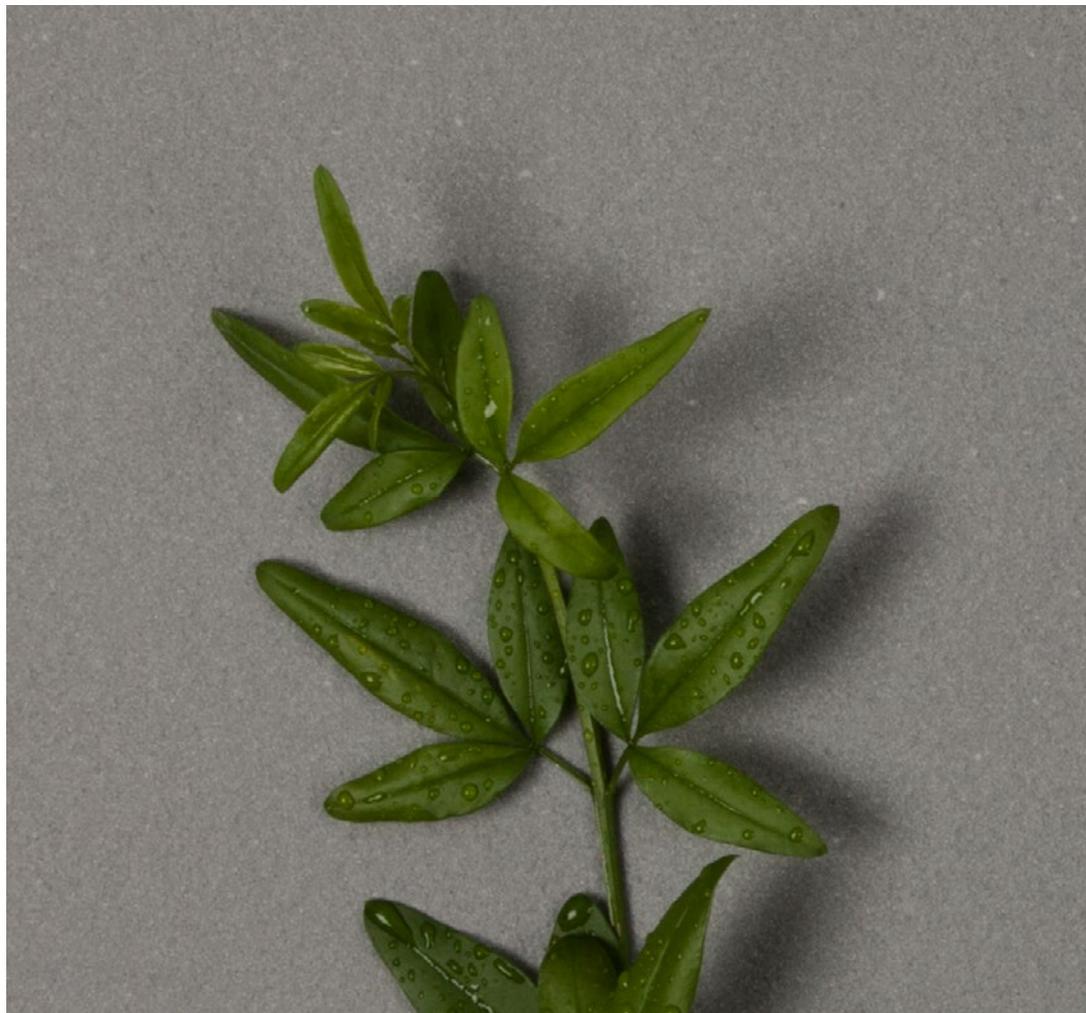
New generation
Lapitec® slabs

1

Today, more than ever, architecture has to be environmentally friendly. Lapitec has been convinced of this right from the very beginning. An Italian story that began with a pioneering idea, focusing on environmental sustainability. Lapitec does not include any resin or oil derivatives and nor does it have any digital prints on its surface, which other materials use to imitate the effect of natural stone.

Lapitec is a 'green' material in terms of both its production process and how it is worked and transformed into the final product. It is completely inert and does not release any dangerous substance into the environment.

Respect for the environment and people's health will always be paramount to us.





The
Biorite®

2

From 2022, the entire Lapitec range will be produced using Biorite®, a patented, **non-toxic, crystalline silica-free mineral** obtained from a mixture of mineral powders of natural origin.

Biorite® is a patented mineral, non-toxic and crystalline-silica-free, obtained with a particular melting process at about 1600 °C, starting from a unique blend of 100% natural mineral powders.

As known, **fine crystalline silica powders are potentially dangerous for human health**. As a matter of fact, if inhaled during the processing of the material, they can cause respiratory diseases such as silicosis.

As a comparison, let's consider that ordinary ceramic materials have a crystalline silica content approximately of 15% in weight, granite can range from 50% to 85%, while quartz agglomerates reach 90%.

Traditional Lapitec slabs have a low crystalline silica content, equal to approximately 10% in weight.

Lapitec slabs produced using Biorite® can be considered "**Silica free**" as they contain a crystalline silica percentage that does not exceed 1%.

This extraordinary result guarantees complete **safety for all fabricators and installers** who work and install Lapitec in all applications.

Biorite® is produced exclusively at the Lapitec plant in Vedelago. This allows for a comprehensive control of the raw materials and the production cycle, further improving the consistency of the technical and surface characteristics of the slabs.

The new generation's slabs, produced using Biorite®, are identifiable by the following symbol applied on the slab's label:



Lapitec becomes one with the environment that we live in every day. It pays tribute to nature. It is made of nature. Starting from its essence: the minerals it is made from.

Lapitec is created using exclusive technology.

The process involves vacuum vibro-compression, joining the mineral grains together without using binding resins. Powders from incredibly pure minerals, as shown in the gallery, baked at high temperatures.

This results in a product free of crystalline silica, safe and **certified**.

| | | |
|---|--|---|
| RAPPORTO DI PROVA / TEST REPORT N. 170590ENG/REV002 | | pg. 1 of 1 |
| <i>Murano</i> | 22/10/2019 | <i>ref.</i> Phone agreements – Mr. Tonellato |
| <i>richiedente proposer</i> | BRETON S.P.A. VIA GARIBALDI, 27 - 31030 CASTELLO DI GODEGO (TV) | |
| <i>campione sample</i> | LAPITEC BIANCO ASSOLUTO | <i>prova eseguita dal / from test date at / to</i> 22/10/2019 22/10/2019 |
| <i>contrassegnato reference</i> | Sample: 158386 Sampling performed by the client | |
| <i>ricevuto il received</i> | 16/10/2019 by carrier | |

Revision of 24/2/2020 for editorial modification.
This test report deletes and replaces the previous one n. 170590ENG dated 22/10/2019 .

Residual Quartz determination with method LPR/MI/19-01 Rev. 0 2019

A series of fragments with a total weight of 25g were taken from the received sample and ground in an oscillating WC mill. The resulting powder was analyzed by X-ray diffraction analysis with a PANalytical X'pert PRO diffractometer equipped with a 3-degree PIXcel detector to identify and quantify the crystalline and amorphous phases present within it.

The experimentally acquired diffractogram was analyzed and compared with a calibration line for the determination of the percentage quantity of residual quartz present.
The results are summarized in the following table:

| Cristalline phases | Formula | wt (%) |
|--------------------|------------------|---------|
| Quartz | SiO ₂ | < D. L. |

Note:
- D. L. = detection limit < 0.1% wt

Analyses executed in our laboratories in Murano.

--- END OF THE TEST REPORT ---



LAPITEC
NATURALLY ITALIAN

To request detailed specifications
and product composition:
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