

Bologna, 11/06/2015

CENTRO DI RICERCA E SPERIMENTAZIONE
PER L'INDUSTRIA CERAMICA

Messrs

Basaltina S.r.l.

Via Passignano sul Trasimeno 11

00191 Roma

ADVANCED TECHNICAL CERAMICS LABORATORY

TEST REPORT No. 0092/15

(translation of test report Nr.0062/15 dated 21/05/15)

Requested by:	Basaltina S.r.l. Via Passignano sul Trasimeno 11 00191 Roma
On (date):	29/04/2015
For the sample marked:	" Basaltina con superficie levigata "

I risultati riportati si riferiscono solo ai campioni esaminati.

Non si assume alcuna responsabilità sull'accuratezza del campionamento salvo che questo non sia stato effettuato sotto la nostra diretta supervisione.

La riproduzione del presente rapporto di prova è autorizzata solo in forma di fotocopia completa. Per ogni riproduzione parziale è necessaria la nostra autorizzazione scritta.

Il presente rapporto di prova è costituito da 3 pagine compresa questa copertina.



CENTRO CERAMICO

Test Report No. 0092/15

Date 11/06/2015

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Description of the sample:	Natural stone marked: "Basaltina con superficie levigata"
Manufacturer:	-----
Sampling details	
- Where:	-----
- Date:	-----
- By whom:	CUSTOMER
- How (methods):	-----
Date of receipt in laboratory:	13/05/2015

TESTS PERFORMED:

		Date of starting	Date of ending
<input checked="" type="checkbox"/>	LEED-NC version 4 (2013)	19/05/2015	19/05/2015
<input checked="" type="checkbox"/>	ASTM C 1371-04a	20/05/2015	20/05/2015
<input checked="" type="checkbox"/>	ASTM E 1980-11	21/05/2015	21/05/2015



Calculation of Solar Reflectance Index (SRI) in accordance with
ASTM E 1980-11 - Standard Practice for Calculating Solar Reflectance Index of
Horizontal and Low Sloped Opaque Surfaces

The measurement was performed with a spectrophotometer UV-Vis-NIR Jasco mod. V-670 with double beam and equipped with an integrating sphere attachment.

The spectrum values are processed with the Weighted Ordinates method in order to obtain the reflectance solar spectrum of the sample; the distribution of solar spectral irradiance standard (for Air mass 1.5) employed in this method was obtained by the data reported in the reference ASTM G173-03.

The value of the thermal emittance was measured by IR emissometer mod. AE1-RD1, Devices & Services Company.

The SRI values here reported are average values of 6 measurements, performed on different samples

RESULTS:

Convective Coefficient (W m ⁻² K ⁻¹)	Mean Value of SRI
5 (low-wind conditions)	19
12 (medium-wind conditions)	20
30 (high-wind conditions)	21

Mean value of Solar Reflectance, α	0.22
Mean Value of Thermal Emissivity, ϵ	0.88

Technical verification

Dott. Arturo Salomoni

Prof. Maria Chiara Bignozzi
DIRECTOR