

**SEDE**

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**CERTI.CER.**

**LABORATORIO DI ZONA**

Via Valle D'Aosta, 1  
41049 Sassuolo  
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Part. IVA 0094778-0375

Bologna, 09/09/2014

Messrs

**SUCCETTI LUCIANO SRL.**

**via Rezia 30**

**23022 Chiavenna (SO)**

**ADVANCED TECHNICAL CERAMICS SECTION**

**TEST REPORT N° 124/14**

(translation of test report Nr. 120/14 dated 09/09/14)

Requested by: SUCCETTI LUCIANO SRL.  
via Rezia 30  
23022 Chiavenna (SO)

On (date): 04/09/2014

**For the samples marked:**

"Traditional name: SERIZZO DUBINO. International name: DUBIN  
BLACK. Petrographic definition: QUARTZODIORITE. Commercial  
category (EN 12670): GRANITE. Extraction place: City DUBINO,  
Nuova Olonio; Province Sondrio; Italy. Extraction site:  
Spinida; code: [B2-ATE5].

Finish: SANDED"

**The results reported relate only to the samples tested.**

**No responsibility is taken for the accuracy of the sampling unless it is done under our supervision.**

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**This test report consists of 3 pages, this cover included.**



Consorzio universitario per la gestione del  
«Centro di ricerca e sperimentazione per  
l'industria ceramica».  
D.P.R. 10-4-1978 n. 806  
(G.U. 20-12-1978 n. 353)

Laboratorio autorizzato ad effettuare il  
servizio di rilevamento dell'inquinamento  
atmosferico.  
Decreto MINISTERO SANITÀ 10-8-1974  
(G.U. 14-9-1974 n. 240)

Laboratorio iscritto nell'albo dei «Laboratori Esterni  
Pubblici e Privati Altamente Qualificati».  
Decreto MINISTERO RICERCA SCIENTIFICA 6-6-1983  
(G.U. 6-7-1983 n. 183)

Membro ASTM  
American Society for  
Testing and Materials.

**Description of the sample:**

Natural stone marked "Traditional name: SERIZZO DUBINO. International name: DUBIN BLACK. Petrographic definition: QUARTZODIORITE. Commercial category (EN 12670): GRANITE. Extraction place: City DUBINO, Nuova Olonio; Province Sondrio; Italy. Extraction site: Spinida; code: [B2-ATE5]. Finish: SANDED".

**Manufacturer:****Sampling details:**

- Where: /
- Date: /
- By whom: customer
- How (methods): /

Date of receipt in laboratory: 02/09/2014

**1 - TESTS PERFORMED:**

		Date of starting	Date of ending
<input checked="" type="checkbox"/>	LEED-NC version 4 (2013)	Determination of solar reflectance spectrum and of solar reflectance coefficient (US-GBC rating System, SS Credit 7.1 and SS Credit 7.2)	04/09/2014   05/09/2014
<input checked="" type="checkbox"/>	ASTM C 1371-04a	Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers	04/09/2014   04/09/2014
<input checked="" type="checkbox"/>	ASTM E 1980-11	Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low Sloped Opaque Surfaces	08/09/2014   08/09/2014

**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 value here reported are average values of 6 measurements, performed on different samples.

**RESULTS:**

Convective Coefficient (W m <sup>-2</sup> K <sup>-1</sup> )	Mean Value of SRI
5 (low-wind conditions)	35
12 (medium-wind conditions)	35
30 (high-wind conditions)	34

Mean value of Solar Reflectance, $\alpha$	0.31
Thermal Emissivity, $\varepsilon$	0.93

Prof. Eng. Giorgio Timellini  
Director

