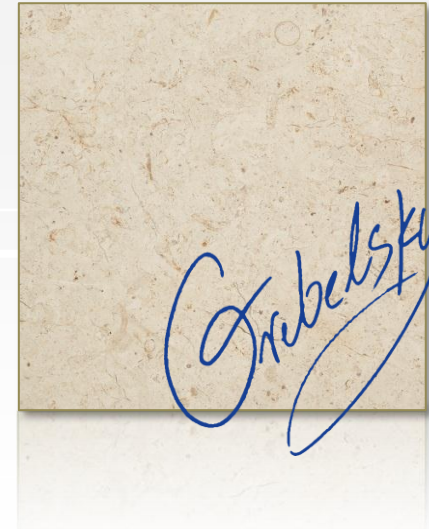



# Jerusalem Desert



<b>Exterior Usage:</b> Suitable for cladding and paving in non-freezing conditions only.	<b>Durability:</b> Suitable for residential and/or low traffic areas. High traffic conditions require a high level of maintenance.	<b>Usage in wet conditions:</b> Spalling on the face of the stone may occur in case of access humidity or still water underneath the stone.
<b>Color Range</b> 	<b>Other names:</b> Jerusalem White Jerusalem Bone Jerusalem Cream  <b>Stone Type:</b> Limestone  <b>Quarry Location:</b> Bethlehem	<b>Special Notes:</b> <ul style="list-style-type: none"><li>• Might contain dry seams, pits, fossils and glass veins- all of which are inherent characteristics of the stone and are filled at the factory during production. Since these voids may sometimes lose their fillings, they should be refilled as a part of standard maintenance.</li><li>• This stone contains deposits of minerals that may react to moisture. Caution should be taken in installations where this material is exposed to standing or running water which may result in spalling on the face of the stone.</li><li>• Application of a sealer is recommended. (Note: It is advised to apply a sealer prior to grouting.)</li></ul>

LAB N°0699

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Date of issue: 28/06/2013

Test report n° 13-2365-002/E

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<b>Sample description</b>	JERUSALEM DESERT
<b>Client</b>	A.Grebelsky & Son (Jerusalem Marble) Company #510234574 4 Hamelacha St. Hartuv A, Industry Zone 99065 Israel
<b>provenance</b>	Client's works #
<b>type of specimen</b>	Natural stone slabs and cubes
<b>Sampler</b>	Client
<b>Date of sampling</b>	Not declared
<b>Date of delivery</b>	14/04/2013
<b>Number of entrance</b>	13-2365
<b>Date of entrance</b>	10/05/2013
<b>test start</b>	10/05/2013
<b>test end</b>	28/06/2013
<b>Reference</b>	Initial type testing for CE mark according to : EN 12057 :2004 EN 12058 :2004

\* Test not accredited by ACCREDIA  
# supply information by client

N.A. not applicable

\*\* test performed by an external qualified laboratory

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Test report n° 13-2365-002/E

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**NATURAL STONE TEST METHODS – PETROGRAPHIC EXAMINATION \*\* (UNI EN 12407:2007)**

**MACROSCOPIC DESCRIPTION**

Natural stone slabs 180 x 90 x 30 mm with sawn surface finish.

Heterogeneous beige sedimentary fossiliferous rock, fine grained with locally opened stylolitic joints. It is possible to appreciate fossiliferous constituents (dark beige). There is not appreciable alteration traces. The rock looks massive, reacts with HCl and can be scratched with a metallic blade as it has a carbonatic origin.



**Photo 1:** macroscopic look of the BIOMICRITE commercially named "Jerusalem Desert". (Stereomicroscope 10m)

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### MICROSCOPIC DESCRIPTION

Calcareous rock with heterogeneous structure for the presence of compositional patches and with thin, locally open stylolitic joints. The texture is organic - sedimentary with muddy support and with clasts dimensions less than 250 µm, though some bioclasts can reach 4 mm .

Allochemical compounds are made by bioclasts among which it is possible to recognize echinoderms' plates and spines also filled with opaque minerals, sponge spicules, molluscs fragments whose shells have preserved texture or replaced one by calcite, algae fragments and rare intraclasts.

There are no terrigenous compounds.

The orthochemical compounds are made by granular spar-carbonatic cement and by microgranulation of opaque minerals widespread in the thin section and sometimes into bioclasts' pores.

The micritic matrix is heterogeneously widespread.

Discontinuity: discontinuities are owed to stylolitic joints which are locally opened, inter particle pores and fenestral ones.

Alteration: absent

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Date of issue: 28/06/2013

Test report n° 13-2365-002/E

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PHOTOGRAPHIC DOCUMENTATION



Photo 2: there locally are abundant bioclasts with granular support. (25 m. Nicols //).

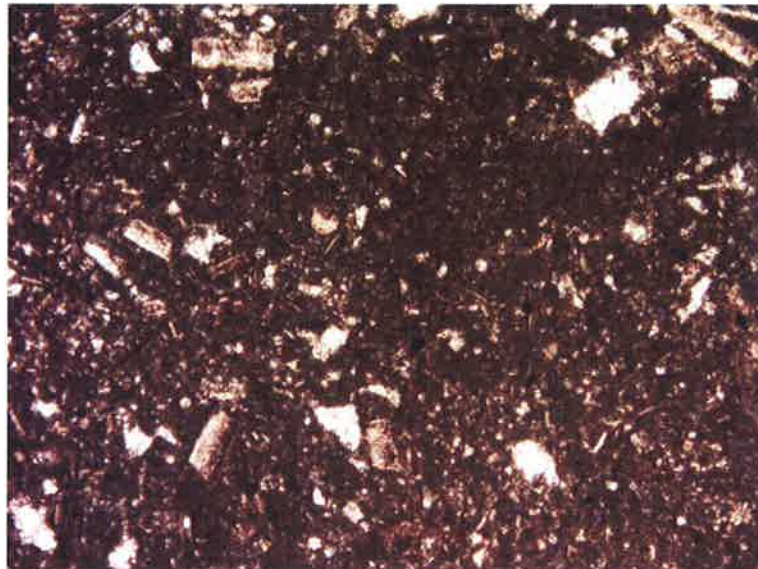


Photo 3: look of the material in thin section. (25 m. Nicols //).

PETROGRAPHIC DEFINITION (UNI EN 12670:2003):

Commercial definition: **JERUSALEM DESERT**  
Petrographic definition: **biomicrite**

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DECLARATION OF REACTION TO FIRE CLASS (UNI EN 13501-1:2007)\*

REACTION TO FIRE CLASS <sup>1</sup>
<b>A 1</b>

<sup>1</sup>according to Commission Decision n° 96/603/EC.

DETERMINATION OF WATER ABSORPTION AT ATMOSPHERIC PRESSURE (UNI EN 13755:2008)

SPECIMEN	specimen dimensions (mm)			Dry specimen (g)	Saturated specimen (g)	Water absorption (%)
	n.	L	l	h	m <sub>d</sub>	m <sub>s</sub>
ASS - 1	60,8	60,3	60,3	545,47	559,28	2,5
ASS - 2	59,2	60,9	60,8	542,73	556,82	2,6
ASS - 3	60,9	60,4	60,9	546,87	560,11	2,4
ASS - 4	60,9	59,5	61,1	547,43	561,32	2,5
ASS - 5	59,4	60,6	60,9	541,76	556,60	2,7
ASS - 6	60,8	59,5	59,6	548,04	561,79	2,5
<b>mean water absorption (%)</b>						<b>2,5±0,1</b>

Note: extended uncertainty of the mean value has been calculated with a coverage factor  $k = 2,53$  corresponding to a confidence level of 95 %

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**DETERMINATION OF APPARENT DENSITY (UNI EN 1936:2007) \***

specimen	dry specimen (g)	saturated specimen (g)	immersed specimen (g)	Apparent density (kg/m <sup>3</sup> )
ASS - 1	545,47	559,79	341,65	2495,5
ASS - 2	542,73	556,93	339,90	2495,7
ASS - 3	546,87	560,18	342,55	2507,8
ASS - 4	547,43	561,83	342,76	2493,9
ASS - 5	541,76	556,65	339,05	2484,7
ASS - 6	548,04	561,99	343,21	2500,0
<b>Mean apparent density (kg/m<sup>3</sup>)</b>				<b>2500</b>

**DETERMINATION OF OPEN POROSITY (1936:2007)\***

specimen	dry specimen (g)	saturated specimen (g)	immersed specimen (g)	Open porosity (%)
ASS - 1	545,47	559,79	341,65	6,6
ASS - 2	542,73	556,93	339,90	6,5
ASS - 3	546,87	560,18	342,55	6,1
ASS - 4	547,43	561,83	342,76	6,6
ASS - 5	541,76	556,65	339,05	6,8
ASS - 6	548,04	561,99	343,21	6,4
<b>Mean open porosity (%)</b>				<b>6,5</b>

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Test report n° 13-2365-002/E

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**DETERMINATION OF FLEXURAL STRENGTH UNDER CONCENTRATED LOAD (UNI EN 12372:2007)**

- Load rate: 0,25 MPa/s
- Surface finish: sawn #
- Load orientation: perpendicolar to the utilization plane

specimen	Dimensions (mm)				Breaking load (N)	Flexural strength (MPa)
	n.	L	Supporting distance (l)	b		
F - 1	182,3	150,0	92,6	30,1	3341	9,0
F - 2	182,1	150,0	92,7	29,9	3326	9,0
F - 3	182,0	150,0	92,6	30,2	3063	8,2
F - 4	182,1	150,0	92,7	30,3	3422	9,0
F - 5	182,4	150,0	92,1	29,7	3563	9,9
F - 6 <sup>1</sup>	182,1	150,0	92,1	29,9	3143	8,6
F - 7	182,1	150,0	92,4	29,8	3514	9,6
F - 8	182,0	150,0	92,6	29,9	3353	9,1
F - 9 <sup>1</sup>	181,7	150,0	92,3	30,1	2709	7,3
F - 10 <sup>1</sup>	181,9	150,0	92,1	30,2	2449	6,6
<b>Mean flexural strenght (MPa):</b>						<b>8,6</b>

<sup>1</sup> the fracture is situated more than 15 % of the distance between the supporting rollers from the middle of specimen

Number of specimen	10
<b>Mean Value (MPa)</b>	<b>8,6 ±0,5MPa</b>
Standard deviation	1,01
Coefficient of variation	0,12
Mean logarithmic	2,15
Logarithmic standard deviation	0,124
<b>Minimum vale (MPa)</b>	<b>6,6</b>
<b>Maximum value (MPa)</b>	<b>9,9</b>
<b>Lower expected value (MPa)</b>	<b>6,6</b>
Quantile factor K <sub>S</sub>	2,10

NOTE: the extended uncertainty of the mean value has been calculated with a coverage factor k = 2,36, corresponding to a confidence level of 95 %

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Test report n° 13-2365-002/E

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DETERMINATION OF THE SLIP RESISTANCE VALUE BY MEANS OF THE PENDULUM TESTER (UNI EN 14231:2004) (USRV)\*

Specimen N°	Mean of the two recorded values measured in opposite directions (USRV)
S - 1	61
S - 2	62
S - 3	66
S - 4	64
S - 5	63
S - 6	61
<b>Mean Value</b>	<b>63</b>

- Slider lenght: 76 mm
- Surface finish<sup>#</sup>: sawn
- Slider and sampling « wet »

Geotechnical Division  
The Director  
Dr. Geologist Francesco Bazzolo

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