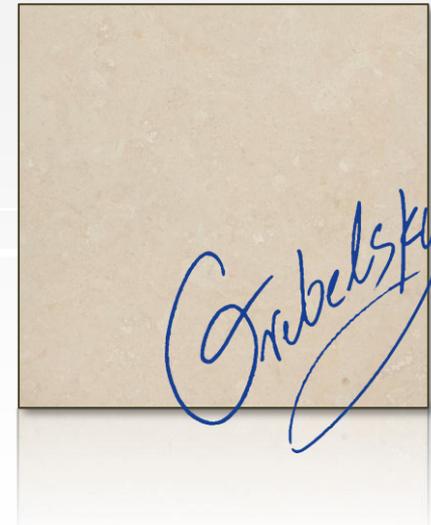


# Jerusalem Pearl



<b>Exterior Usage:</b> Not recommended for exterior usage.	<b>Durability:</b> Suitable for residential and/or low traffic conditions only.	<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.
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<b>Color Range</b> 	<b>Other names:</b> Crème G Jerusalem Cream Cream Pearl  <b>Stone Type:</b> Limestone  <b>Quarry Location:</b> Shomron	<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>
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Date of issue: 28/06/2013

Test report n° 13-2365-003/E

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<b>Sample description</b>	JERUSALEM PEARL
<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

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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, very fine grained with locally opened irregular stylolitic joints. It is not possible to appreciate micro constituents iso-orientation as well as 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 BIOPELMICRITE commercially named "Jerusalem Pearl". (Stereomicroscope 10m)

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### MICROSCOPIC DESCRIPTION

Calcareous rock with heterogeneous structure showing differently dense micritic plaques with a lumpy and feary pattern look. It is possible to appreciate a laminated texture of the sediment. There are cemented fractures, and also locally open stylolitic joints.

The texture is organic-sedimentary with mixed support and grains dimension less than 100 µm, with some bioclasts reaching up to 250 µm.

Allochemical compounds are made by not identifying organogenic fragments and also by foraminifera, spines and plates of crinoid, algae fragments, peloids and irregularly shaped micrite grains. The texture of the rock that is not so clearly readable is compatible with the one of a rather altered stromatoporoid material with abundant organogenic fragments.

There are no terrigenous compounds, while the orthochemical ones are made by spar carbonatic cement and opaque minerals as microgranulation widespread in the section.

The micritic matrix is heterogeneously widespread.

Discontinuity: they are of different types, there are inter and intra particle pores, fractures and stylolitic joints usually calcitized. It can be seen a vaguely laminated texture of the stone.

Alteration: according to the look of the stone in thin section, the rock may be a rather altered stromatoporoid material

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PHOTOGRAPHIC DOCUMENTATION

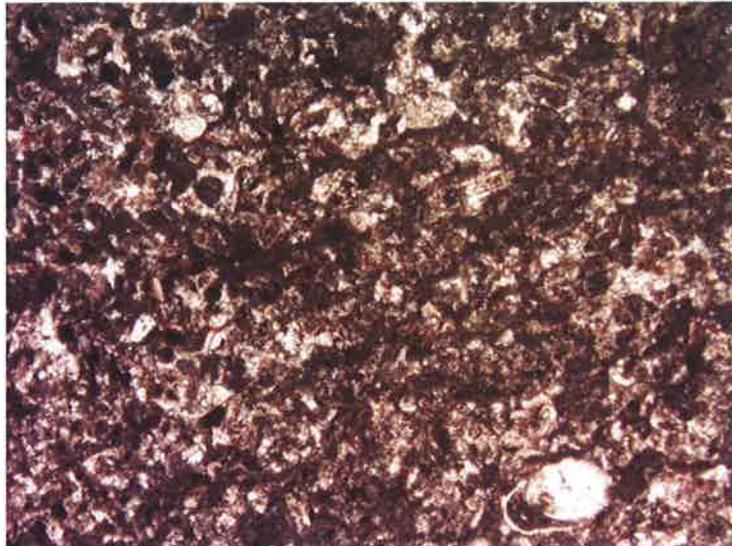


Photo 2: look of the material in thin section. There are a lot of bioclasts fragments. (25 m. Nicols //)

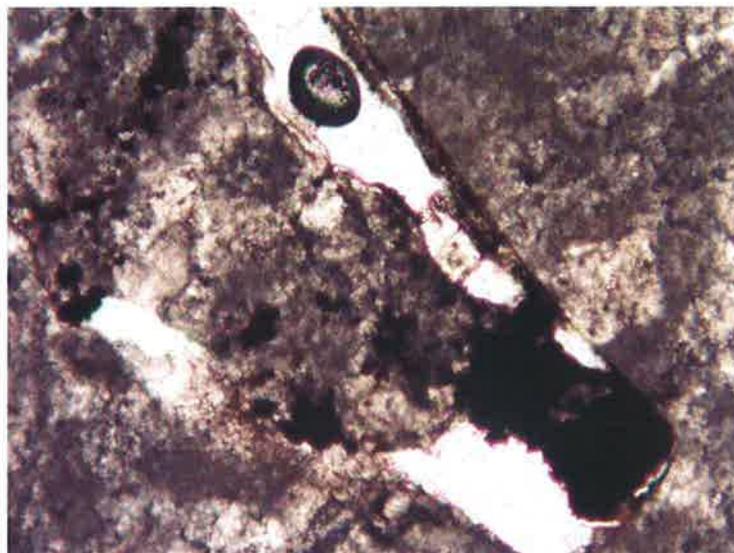


Photo 3: opaque minerals can be mainly concentrated along the stylolitic joint locally opened. (100 m. Nicols //)

PETROGRAPHIC DEFINITION (UNI EN 12670:2003):

Commercial definition: **JERUSALEM PEARL**  
Petrographic definition: **biopelmicrite**

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

<b>REACTION TO FIRE CLASS <sup>1</sup></b>
<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		51,4	48,6	46,0	288,29	293,79	1,9
ASS - 2		51,0	50,7	45,7	298,78	304,17	1,8
ASS - 3		50,6	51,1	46,2	302,15	307,17	1,7
ASS - 4		50,9	50,5	46,0	298,94	304,03	1,7
ASS - 5		50,8	50,3	45,8	295,63	300,95	1,8
ASS - 6		50,5	50,6	45,7	295,86	301,47	1,9
<b>mean water absorption (%)</b>							<b>1,8±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	288,29	294,01	180,41	2532,7
ASS - 2	298,78	304,43	187,07	2540,8
ASS - 3	302,15	307,94	189,18	2539,1
ASS - 4	298,94	304,41	187,39	2549,5
ASS - 5	295,63	301,25	185,14	2541,0
ASS - 6	295,86	301,52	185,43	2543,4
<b>Mean apparent density (kg/m<sup>3</sup>)</b>				<b>2540</b>

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

specimen	dry specimen (g)	saturated specimen (g)	immersed specimen (g)	Open porosity (%)
ASS - 1	288,29	294,01	180,41	5,0
ASS - 2	298,78	304,43	187,07	4,8
ASS - 3	302,15	307,94	189,18	4,9
ASS - 4	298,94	304,41	187,39	4,7
ASS - 5	295,63	301,25	185,14	4,8
ASS - 6	295,86	301,52	185,43	4,9
<b>Mean open porosity (%)</b>				<b>4,9</b>

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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	182,6	144,0	91,5	29,8	4699	12,5
F - 2	182,8	144,0	91,2	28,4	4203	12,3
F - 3	182,6	144,0	91,2	28,5	4055	11,8
F - 4	182,6	144,0	91,7	28,7	3856	11,0
F - 5 <sup>1</sup>	182,6	144,0	91,1	28,5	4133	12,1
F - 6 <sup>1</sup>	183,1	144,0	91,3	28,3	3905	11,5
F - 7	183,3	144,0	91,4	29,5	4002	10,9
F - 8	183,3	144,0	91,3	28,7	4066	11,7
F - 9	183,5	144,0	91,6	29,3	3575	9,8
F - 10	182,5	144,0	91,6	28,7	3208	9,2
<b>Mean flexural strenght (MPa):</b>						<b>11,3</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>11,3 ±0,6MPa</b>
Standard deviation	1,08
Coefficient of variation	0,10
Mean logarithmic	2,42
Logarithmic standard deviation	0,100
<b>Minimum vale (MPa)</b>	<b>9,2</b>
<b>Maximum value (MPa)</b>	<b>12,5</b>
<b>Lower expected value (MPa)</b>	<b>9,1</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 = 2,23, corresponding to a confidence level of 95 %

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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	40
S - 2	45
S - 3	44
S - 4	43
S - 5	44
S - 6	42
<b>Mean Value</b>	<b>43</b>

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

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

- **Slider Length: 76 mm**
- **Surface finish<sup>#</sup>: honed**
- **Slider and specimen condition: "dry"**

Specimen N°	Average value <sup>1</sup> (SRV "dry")
1	46
2	45
3	48
4	49
5	50
6	46
<b>Average value</b>	<b>47</b>

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- **Slider Length: 76 mm**
- **Surface finish<sup>#</sup>: honed**
- **Slider and specimen condition : "wet"**

Specimen N°	Average value <sup>1</sup> (SRV "wet")
1	8
2	8
3	5
4	9
5	7
6	6
<b>Average value</b>	<b>7</b>

The TRL pendulum tester has a range of reading from 0 to 150, high values indicate good slip resistance.

<sup>1</sup>Note: mean value of 5 + 5 individual measurement obtained with orientation A and A to 180°

Geotechnical Division  
The Director  
Dr. Geologist Francesco Bazzolo

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