# Halila

#### **Exterior Usage:**

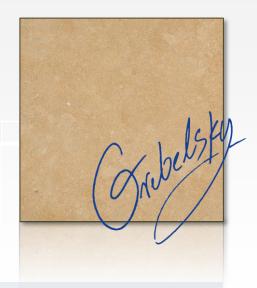
Suitable for paving and cladding applications in **non-freezing** conditions only.

## **Durability:**

Suitable for residential and/or low traffic areas. High traffic conditions require a high level of maintenance.

## Usage in wet conditions: Spalling on the face of the

spalling on the face of the stone may occur in case of access humidity or still water underneath the stone.





**Other names:** Antique Gold Galil Gold J. Gold Tafuch

Stone Type: Limestone

Quarry Location: Hebron

### **Special Notes:**

• 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.

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.
Application of a sealer is recommended. (Note: It is advised to apply a sealer prior to grouting.)







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### Test report n° 13-2365-004/E

Date of issue: 28/06/2013

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

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#### Test report n° 13-2365-004/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, medium sand grained with locally opened irregular stylolithic joints. It is possible to appreciate ivory white micro constituents (bioclasts). The rock doesn't exhibit appreciable alteration traces. The rock looks massive, reacts with HCI and can be scratched with a metallic blade as it has a carbonatic origin.



Photo 1: macroscopic look of the BIOSPARITE commercially named "Halila". (Stereomicroscope 10m)

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#### **MICROSCOPIC DESCRIPTION**

Calcareous rock with heterogeneous structure for the presence of compositional patches and locally open stylolites. The texture is organic - sedimentary with mixed support mainly granular and with grains dimensions of about 300 - 400 µm, though sub millimetric bioclasts are present too.

Allochemical compounds are made by bioclasts among which it is possible to recognize echinoderms' plates and spines which pores are sometimes filled with opaque minerals, bivalve fragments with foliated structures, algae fragments and organogenic fragments.

There are structureless micritic and aggregate grains, and also biomicritic intraclasts too.

There are no terrigenous compounds, while the orthochemical ones are made by spar carbonatic cement locally as syntaxial one. Opaque minerals (Iron oxides / hydroxides) as microgranulation are widespread in the section or as filler into bioclasts' pores. There is no micritic matrix.

Discontinuity: it is mainly owed to inter and intra particle pores.

Alteration: absent

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Date of issue: 28/06/2013

PHOTOGRAPHIC DOCUMENTATION

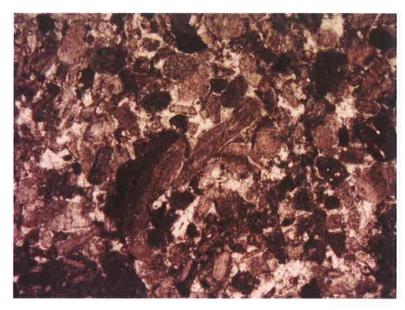


Photo 2: look of the material in thin section. The rock is made by a lot of bioclasts immersed into sparite (25 m. Nicols //).

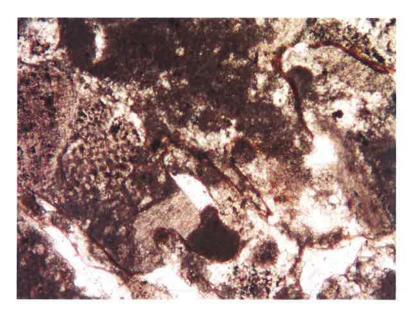


Photo 3: a stylolithic joint locally opened. (100 m. Nicols //)

PETROGRAPHIC DEFINITION (UNI EN 12670:2003):

Commercial definition: Petrographic definition:

HALILA biosparite

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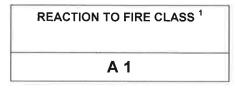
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## DECLARATION OF REACTION TO FIRE CLASS (UNI EN 13501-1:2007)\*



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

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

SPECIMEN	specime	en dimensio	ons (mm)	Dry specimen (g)	Saturated specimen (g)	Water absorption (%)
D.	L	I.	h	m <sub>d</sub>	m <sub>s</sub>	A <sub>b</sub>
ASS - 1	50,5	50,5	44,0	286,23	289,83	1,3
ASS - 2	50,5	50,2	44,1	283,73	287,47	1,3
ASS - 3	50,6	50,4	44,4	284,26	288,11	1,4
ASS - 4	50,5	50,8	44,0	289,59	292,21	0,9
ASS - 5	50,2	50,3	44,0	281,64	285,73	1,5
ASS - 6	50,6	50,4	43,9	282,14	286,39	1,5
	mea	in water ab	sorption (%	)		1,3±0,1

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	286,23	289,95	178,22	2556,7
ASS - 2	283,73	287,56	176,71	2554,5
ASS - 3	284,26	288,17	176,72	2545,5
ASS - 4	289,59	292,45	180,80	2588,5
ASS - 5	281,64	285,93	175,24	2539,3
ASS - 6	282,14	286,72	175,37	2528,7
	Mean app	arent density (kg/r	n <sup>3</sup> )	2550

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

specimen	dry specimen (g)	saturated specimen (g)	immersed specimen (g)	Open porosity (%)
ASS - 1	286,23	289,95	178,22	3,3
ASS - 2	283,73	287,56	176,71	3,5
ASS - 3	284,26	288,17	176,72	3,5
ASS - 4	289,59	292,45	180,80	2,6
ASS - 5	281,64	285,93	175,24	3,9
ASS - 6	282,14	286,72	175,37	4,1
907	Mean o	pen porosity (%)		3,5

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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: perpendicolular to the utilization plane -

specimen		Dimensio	ons (mm)		Breaking Ioad (N)	Flexural strength (MPa)
n.	L	Supporting distance (/)	b	h	F	$R_{TF}$
F-1	182	146,0	91,2	28,7	4873	14,2
F-2	181,6	146,0	91,5	28,8	5300	15,3
F-3	181,7	146,0	91,1	28,9	4330	12,5
F - 4	182,1	146,0	91,0	29,1	5432	15,4
F - 5	182,2	146,0	91,2	28,6	4033	11,8
F-6	182,6	146,0	91,3	30,8	6180	15,6
F - 7	182,2	146,0	91,6	28,8	5586	16,1
F-8	183,1	146,0	91,5	29,9	5101	13,7
F-9	182,7	146,0	91,4	30,3	5140	13,4
F - 10	181,8	146,0	91,5	28,4	4467	13,3
	Mean fle	exural streng	ht (MPa):			14,1

Number of specimen	10
Mean Value (MPa)	14,1 ±1MPa
Standard deviation	1,43
Coefficient of variation	0,10
Mean logarithmic	2,65
Logarithmic standard deviation	0,102
Minimum vale (MPa)	11,8
Maximum value (MPa) 🛛 🕓	16,1
Lower expected value (MPa)	11,4
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	48
S - 2	55
S - 3	60
S - 4	52
S - 5	55
S - 6	57
Mean Value	55

- Slider lenght: 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	45
2	46
3	45
4	47
5	45
6	46
Average value	46

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Date of issue: 28/06/2013

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

Specimen N°	Average value <sup>1</sup> (SRV "wet")
1	14
2	13
3	13
4	15
5	14
6	13
Average value	14

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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