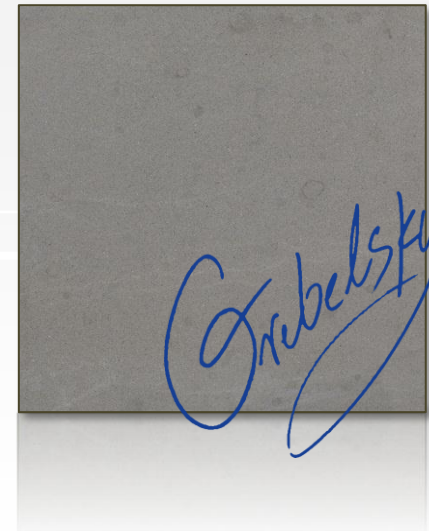
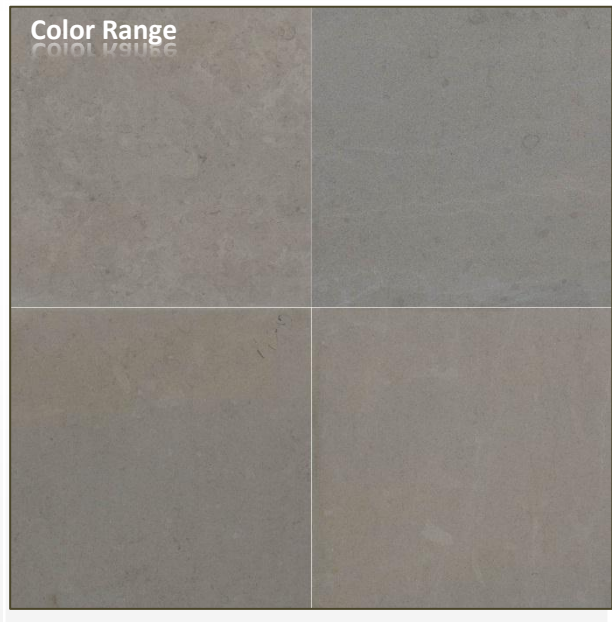


Galilee Grey



Exterior Usage: Suitable for paving and cladding applications in non-freezing climates only.	Durability: Suitable for residential and/or low traffic areas. High traffic conditions require a high level of maintenance.	Usage in wet conditions: Spalling and cracking may occur in case of excess humidity or still water underneath the stone.
Color Range 	Other names: Jat Jerusalem Gray Stone Type: Dolomite Quarry Location: Galilee, Grebelsky Quarry	Special Notes: <ul style="list-style-type: none">• 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° 13-2365-001/E

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Sample description	GALILEE GREY
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

* 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° 13-2365-001/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.

Dark beige sedimentary rock, fine sand grained with common weak and closed stylolites. It is not possible to appreciate micro constituents iso-orientation as well as alteration traces. The rock looks massive, poor reacts with HCl and can be scratched with a metallic blade as it has a carbonatic origin.



Photo 1: macroscopic look of the DOLIMITIZED INTRA-SPARITE commercially named "Galilee Grey". (Stereomicroscope 10m)

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supply information by client

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Test report n° 13-2365-001/E

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MICROSCOPIC DESCRIPTION

Calcareous dolomitic rock with heterogeneous structure for the presence of compositional patches, fractures sometimes opened, fenestral pores.

The texture is mixed, organic- sedimentary, clastic, locally lumpy and crystalline with mixed support too and with clasts dimension range changing from 50 to 250 µm.

Allochemical compounds of the material are made by indistinct grains, peloids, intrabacinal clasts, fragments of different kind of bioclasts such as foraminifera, algae, echinoderms. Terrigenous compounds are made by granular quartz mono and subordinately polycrystalline and rare feldspars, both of them varying from sub rounded to sub angular.

The orthochemical compounds are made by sparite dolomite frequently widespread in the section (about 30% of constituents), microgranulation of opaque minerals widespread in the thin section and sometimes into bioclasts' pores, chalcedony in substitution of existing granules. There is a local re-crystallization of micrite into macrocrystalline micrite.

The micritic matrix is heterogeneously widespread and locally in recrystallization.

Discontinuity: there are fenestral pores, intergranular ones, frequent fractures sometimes opened.

Alteration: absent. The rock is dolomitizing.

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supply information by client

N.A. not applicable

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PHOTOGRAPHIC DOCUMENTATION

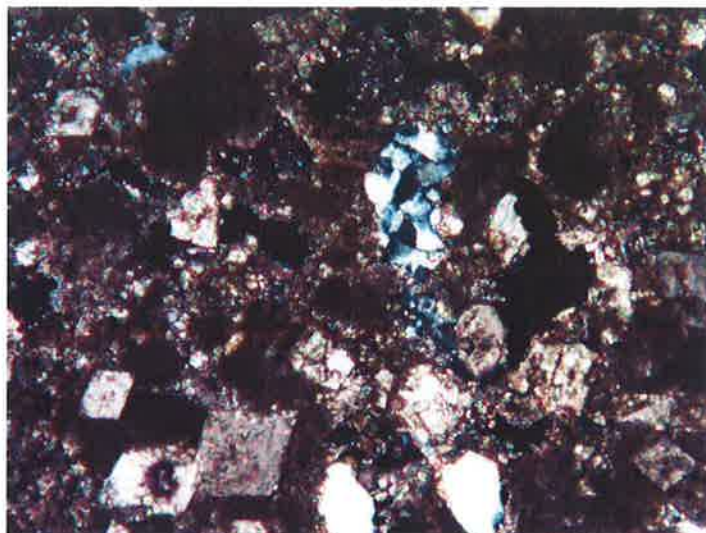


Photo 2: as constituents there are also chalcedony and terrigenous material such as quartz. The rhombic crystals are dolomitic ones. (25 m. Nicols X)

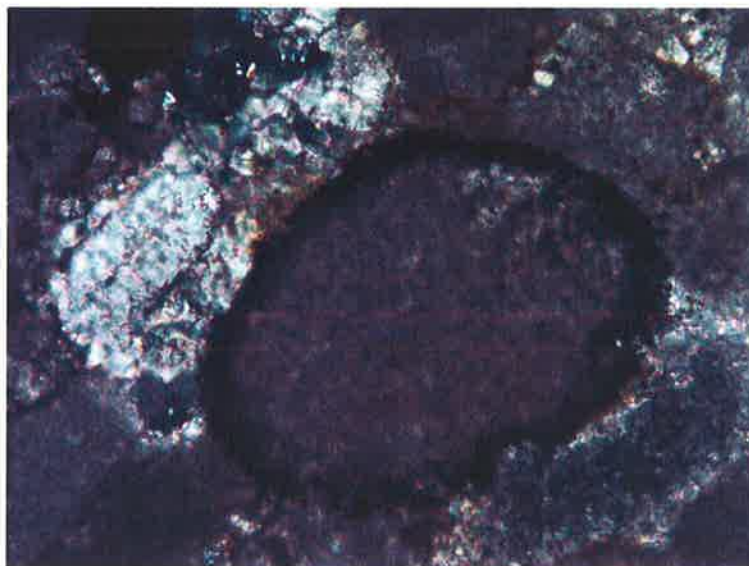


Photo 3: in the central side of the photo a litoclast clothed by an abundant microgranulation of opaque minerals. (200 m. Nicols X)

PETROGRAPHIC DEFINITION (UNI EN 12670:2003):

Commercial definition: **GALILEE GREY**
Petrographic definition: **dolomitized intra-sparite**

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N.A. not applicable

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

REACTION TO FIRE CLASS ¹
A 1

¹according 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 _d	m _s
ASS - 1	52,0	52,3	52,4	367,60	372,16	1,2
ASS - 2	51,9	51,2	52,4	369,42	374,08	1,3
ASS - 3	52,0	51,2	52,4	359,28	363,88	1,3
ASS - 4	51,9	52,4	52,4	371,00	375,86	1,3
ASS - 5	52,0	52,4	52,0	370,80	375,58	1,3
ASS - 6	51,0	52,4	52,6	367,18	371,76	1,2
mean water absorption (%)						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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supply information by client

N.A. not applicable

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Test report n° 13-2365-001/E

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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 ³)
ASS - 1	367,60	372,32	232,24	2619,0
ASS - 2	369,42	374,49	233,19	2609,2
ASS - 3	359,28	364,02	226,97	2616,3
ASS - 4	371,00	375,98	234,30	2613,3
ASS - 5	370,80	375,84	234,25	2613,6
ASS - 6	367,18	372,12	231,93	2613,9
Mean apparent density (kg/m³)				2610

DETERMINATION OF OPEN POROSITY (1936:2007)*

specimen	dry specimen (g)	saturated specimen (g)	immersed specimen (g)	Open porosity (%)
ASS - 1	367,60	372,32	232,24	3,4
ASS - 2	369,42	374,49	233,19	3,6
ASS - 3	359,28	364,02	226,97	3,5
ASS - 4	371,00	375,98	234,30	3,5
ASS - 5	370,80	375,84	234,25	3,6
ASS - 6	367,18	372,12	231,93	3,5
Mean open 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: perpendicolar to the utilization plane

specimen	Dimensions (mm)				Breaking load (N)	Flexural strength (MPa)
	n.	L	Supporting distance (l)	b		
F - 1	180,7	150,0	91,5	30,3	6382	17,1
F - 2	180,3	150,0	91,1	30,0	5826	16,0
F - 3	180,8	150,0	91,7	30,1	5729	15,5
F - 4	180,5	150,0	91,3	30,7	7279	19,0
F - 5 ¹	181,2	150,0	91,5	29,5	5748	16,2
F - 6	180,1	150,0	91,2	30,7	6170	16,2
F - 7	180,3	150,0	91,6	29,7	6711	18,7
F - 8 ¹	181,7	150,0	91,4	29,6	5922	16,6
F - 9	180,6	150,0	91,3	29,8	6001	16,7
F - 10	181,5	150,0	91,1	29,9	6392	17,7
Mean flexural strenght (MPa):						17,0

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

Number of specimen	10
Mean Value (MPa)	17,0 ±0,7MPa
Standard deviation	1,16
Coefficient of variation	0,07
Mean logarithmic	2,83
Logarithmic standard deviation	0,066
Minimum vale (MPa)	15,5
Maximum value (MPa)	19,0
Lower expected value (MPa)	14,8
Quantile factor K _S	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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N.A. not applicable

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Test report n° 13-2365-001/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	58
S - 2	56
S - 3	58
S - 4	57
S - 5	59
S - 6	60
Mean Value	58

- **Slider length: 76 mm**
- **Surface finish[#]: 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[#]: honed**
- **Slider and specimen condition: "dry"**

Specimen N°	Average value ¹ (SRV "dry")
1	42
2	44
3	45
4	43
5	41
6	42
Average value	43

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supply information by client

N.A. not applicable

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- Slider Length: 76 mm
- Surface finish#: honed
- Slider and specimen condition : "wet"

Specimen N°	Average value ¹ (SRV "wet")
1	10
2	9
3	10
4	9
5	8
6	7
Average value	9

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

¹Note: 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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