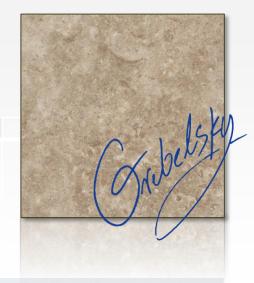
Ramon Grey

Exterior Usage:

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

Durability:

Suitable for most commercial and/or high traffic areas. Usage in wet conditions: Suitable for wet surroundings.





Other Names: Jerusalem Gray Jerusalem Taupe

Stone Type: Limestone

Quarry Location: Mitzpe Ramon, Grebelsky Quarry

Special Notes:

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



Test report nº 13-2365-006/E



LAB N°0699

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Date of issue: 28/06/2013

Sample description	RAMON GREY – GREY GOLD
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 1341 :2013 EN 1469 :2004 EN 12057 :2004 EN 12058 :2004

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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.

Beige fossiliferous sedimentary rock, with heterogeneous structure for the presence of stylolites sometimes opened and compositional patches. There is common presence of bioclasts (bivalves and gastropods).

It is not possible to appreciate micro constituents iso-orientation as well as 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 POORLY WASHED BIOSPARITE commercially named "Ramon Grey - Grey Gold", (Stereomicroscope 10m)

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MICROSCOPIC DESCRIPTION

Calcareous rock with heterogeneous structure for the presence of stylolites sometimes opened and compositional patches.

The texture is organic- sedimentary with maximum dimensions equal to 4 mm and with granular support.

There are abundant allochemical compounds among which bivalves, gastropods, echinoderms, algae, organogenic scraps. The original aragonite composing most of the bioclasts (bivalves and gastropods) was dissolved and the mould filled with an equant calcite spar cement. Only few original structure of bivalves' shells are preserved.

There are no terrigenous compounds.

Orthochemical compounds are made by sparite, both as coarsely crystalline calcite which filled the mould of the molluscan fragments with dark micritic envelopes, and for fenestral porosity. Opaque minerals as microgranulation are widespread in the section. The micritic matrix, locally re-crystallizing, is heterogeneously widespread.

Discontinuity: they are mainly opened stylolites and micro fractures and also alternatively intergranular pores and fenestral ones.

Alteration: none.

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PHOTOGRAPHIC DOCUMENTATION

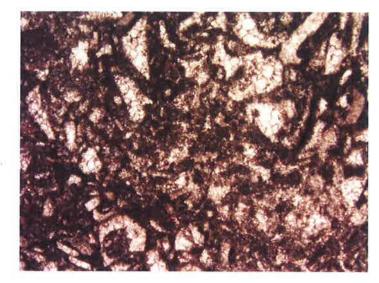


Photo 2: look of the material in thin section. There are a lot of bioclasts mould with dark micritic envelopes and filled with sparite. (25 m. Nicols //).



Photo 3: on the right a fenestral pore calcitized by sparite with micritic lumps inside. On the left calcitic mould of organogenic grit. (25 m. Nicols //).

PETROGRAPHIC DEFINITION (UNI EN 12670:2003):

Commercial definition: Petrographic definition RAMON GREY - GREY GOLD poorly washed biosparite

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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	Ľ,	h	m _d	ms	A _b
ASS - 1	52,8	52,8	52,1	384,23	385,31	0,3
ASS - 2	52,7	52,7	52,0	382,88	384,12	0,3
ASS - 3	52,7	52,6	52,2	383,64	384,85	0,3
ASS - 4	52,8	52,7	51,7	382,61	383,85	0,3
ASS - 5	52,9	51,8	52,7	383,20	384,27	0,3
ASS - 6	52,7	51,8	52,9	383,79	384,90	0,3
	mea	in water ab	sorption (%)		0,3±0,1

Note: extended uncertainty of the mean value has been calculated with a coverage factor k = 2,57 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/m³)
ASS - 1	384,23	385,63	242,26	2674,6
ASS - 2	382,88	384,51	241,29	2668,0
ASS - 3	383,64	385,01	241,77	2672,9
ASS - 4	382,61	383,97	241,17	2674,0
ASS - 5	383,20	384,66	241,67	2674,5
ASS - 6	383,79	385,17	242,04	2676,0
	Mean app	arent density (kg/r	n ³)	2670

DETERMINATION OF OPEN POROSITY (1936:2007)*

specimen	dry specimen (g)	saturated specimen (g)	immersed specimen (g)	Open porosity (%)
ASS - 1	384,23	385,63	242,26	1,0
ASS - 2	382,88	384,51	241,29	1,1
ASS - 3	383,64	385,01	241,77	1,0
ASS - 4	382,61	383,97	241,17	1,0
ASS - 5	383,20	384,66	241,67	1,0
ASS - 6	383,79	385,17	242,04	1,0
	Mean o	open porosity (%)		1,0

HYGROTHERMAL PROPERTIES - TABULATED DESIGN VALUES (UNI EN ISO 10456 :2008)*

$\begin{array}{c} \textbf{APPARENT}\\ \textbf{DENSITY} \ \rho \ (\text{kg/m}^3)^1 \end{array}$	Thermal conductivity λ w/(mK)
2670	2,3

¹mean apparent density

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Date of issue: 28/06/2013

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 -

n.	L	Supporting distance (/)	b	h	F	R _{TF}
F - 1	182,6	150,5	91,1	31,3	5229	13,2
F - 2	182,6	150,5	91,1	29,0	4753	14,0
F - 3	181,7	150,5	91,0	29,9	5061	14,0
F - 4	180,2	150,5	91,1	30,2	4096	11,1
F - 5	182,3	150,5	91,2	32,6	4921	11,5
F-6	182,4	150,5	90,4	28,3	4003	12,5
F - 7	181,9	150,5	91,3	30,6	4436	11,7
F - 8	182,4	150,5	90,8	28,4	4796	14,8
F - 9	180,6	150,5	91,1	30,1	4558	12,5
F - 10	180,3	150,5	90,8	30,9	4594	12,0
	Mean fle	exural streng	ht (MPa):			12,7

Number of specimen	10
Mean Value (MPa)	12,7 ±0,8MPa
Standard deviation	1,23
Coefficient of variation	0,10
Mean logarithmic	2,54
Logarithmic standard deviation	0,095
Minimum value (MPa)	11,1
Maximum value (MPa)	14,8
Lower expected value (MPa)	10,4
Quantile factor K _S	2,10

NOTE: the extended uncertainty of the mean value has been calculated with a coverage factor k = 2,09, corresponding to a confidence level of 95 %

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Date of issue: 28/06/2013

DETERMINATION OF FLEXURAL STRENGTH UNDER CONCENTRATED LOAD (UNI EN 12372:2007) (after freeze/thaw cycles according to UNI EN 12371:2010)*

- Load rate: 0,25 MPa/s -
- Number of cycles: 56 -
- Visual inspection after freeze/thaw cycles: very minor damage (minor rounding of corners and edges) wich does not compromise the integrity of the specimen.
- Surface finish#: sawn -
- Load orientation: perpendicolular to the utilization plane -

specimen		Dimensio	Breaking load (N)	Flexural strength (MPa)		
n.	L	Supporting distance (/)	b	h	F	R _{TF}
F - 1	182,3	150,5	91,1	31,1	5409	13,9
F - 2	182,2	150,5	91,0	31,0	5234	13,5
F-3	182,1	150,5	91,1	30,5	5050	13,5
F - 4	181,7	150,5	91,0	31,6	4133	10,3
F-5	180,3	150,5	91,2	30,5	4989	13,3
F-6	181,2	150,5	91,3	31,7	4271	10,5
F - 7	181,7	150,5	91,4	28,0	4280	13,5
F-8	180,3	150,5	91,1	29,2	4839	14,1
F - 9	179,8	150,5	91,2	28,6	4326	13,1
F - 10	179,9	150,5	91,0	28,5	3325	10,2
	Mean fl	exural streng	ht (MPa):			12,6

Number of specimen	10
Mean Value (MPa)	12,6 ±1MPa
Standard deviation	1,58
Coefficient of variation	0,13
Mean logarithmic	2,52
Logarithmic standard deviation	0,134
Minimum vale (MPa)	10,2
Maximum value (MPa)	14,1
Lower expected value (MPa)	9,4
Quantile factor K _s	2,10

NOTE: the extended uncertainty of the mean value has been calculated with a coverage factor k = 2,09, corresponding to a confidence level of 95 %

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Mean flexural strenght (R_{TF}) before freeze/thaw cycles:

R_{TF}: 12,7 MPa

Mean flexural strenght (RTF) after freeze/thaw cycles:

R_{TF}: 12,6 MPa

The mean value of flexural strenght is not decreased more than 20 % after the freeze/thaw cycles.

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Test report n° 13-2365-006/E

Date of issue: 28/06/2013

DETERMINATION OF THE BREAKING LOAD AT DOWEL HOLE (UNI EN 13364:2003)*

Key

symbol	description					
d1	distance from the hole to the face in the direction of the force in (mm), approximate to 1,0 mm					
ba	maximum distance of the centre of the hole to the fracture edges in (mm), approximate to 1,0 mm					
F	Breaking load, in Newton, approximate to 50 N					

TEST CHARACTERISTIC						
TEST TYPE:	0					
HOLE DIAMETER (mm):	10,0					
DOWEL DIAMETER (mm):	6,1					

Specimen N.	L1	L2	d	Point N.	d (mm)	d₁ (mm)	b _a (mm)	F (N)
	100.4		·	1	30,6	11	55	1550
		199,5	30,9	2	30,8	11	51	1950
1	198,4	199,0	30,9	3	30,6	11	35	1650
				4	31,7	12	55	1850
				N	lean Value:	11	49	1750
Specimen N.	L1	L2	d	Point N.	d (mm)	d ₁ (mm)	b _a (mm)	F (N)
		205,2	32	1	32,0	10	40	1250
	203			2	32,0	10	41	1600
2				3	32,1	12	38	1700
				4	32,0	11	34	1650
				N	lean Value:	11	38	1550
Specimen N.	L1	L2	d	Point N.	d (mm)	d₁ (mm)	b _a (mm)	F (N)
				1	31,4	11	39	1500
	100.9	199	24.5	2	31,6	10	40	1100
3	199,8	199	31,5	3	31,4	12	52	2000
				4	31,5	11	41	1600
				N	lean Value:	11	43	1550

12
1617
260
0,16
7,38
0,17
1100
2000
1130
2,06

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Specimen N°	groove Lenght ¹ (mm)	
A - 1	25,5	
A - 2	23,5	
A - 3	26,0	
A - 4	23,5	
A - 5	23,5	
A - 6	25,5	
Mean Value	24,5	

DETERMINATION OF THE ABRASION RESISTANCE (UNI EN 14157:2005)* Method A - Wide wheel abrasion test

SURFACE FINISH#: SAWN

¹NOTE: groove lenght already corrected joining the calibration factor of 0,4 mm.

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	43
S - 2	55
S - 3	48
S - 4	52
S - 5	49
S - 6	45
Mean Value	49

Slider lenght: 76 mm •

Surface finish#: sawn

Slider and sampling « wet »

* Test not accredited by ACCREDIA # supply information by client N.A. not applicable ** test performed by an external qualified laboratory This test report refers only to the lested sample. It can't be partially reproduced without the written consent of the laboratory. Storage time of samples: samples are kept at the laboratory 30 days after the issue of the test report (with the exception of perishable products that are eliminated at the end of the analysis or maturity). For storage longer than one month must be specifically requested. Time of record keeping: the laboratory must keep a copy of the test reports for a period of 4 years and a copy of the records relating to analyzes for four years, unless special customer requirements, all documents relating to tests for approval of the products are stored for 10 years.

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Test report n° 13-2365-006/E

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Date of issue: 28/06/2013

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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	44
2	45
3	44
4	51
5	47
6	48
Average value	47

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

Specimen N°	Average value ¹ (SRV ''wet'')
1	6
2	6
3	8
4	15
5	10
6	10
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°

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^{*} lost not accretine oby ACCREDA # supply information by client N.A. not applicable * test performed by an external qualified laboratory This lest report refers only to the lested sample, it can't be partially reproduced without the written consent of the laboratory. Storage time of samples: samples are kept at the laboratory 30 days after the issue of the test report (with the exception of perishable products that are eliminated at the end of the analysis or maturity). For storage longer than one month must be specificably requested. Time of records keeping: the laboratory and keep a copy of the test reports for a period of 4 years and a copy of the records relating to analyzes for four years, unless special customer requirements, all documents relating to tests for approval of the products are stored for 10 years.

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Test report n° 13-2365-006/E

Date of issue: 28/06/2013

13/16 DETERMINATION OF THE SLIP RESISTANCE VALUE BY MEANS OF THE PENDULUM TESTER (UNI EN 14231:2004) (SRV)*

- Slider Length: 76 mm
- Surface finish[#]: heavy patina
- Slider and specimen condition: "dry"

Specimen N°	cimen N° Average value ¹ (SRV "dry")	
1	44	
2	45	
3	46	
4	47	
5	47	
6	48	
Average value	46	

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

Specimen N°	Average value ¹ (SRV ''wet'')
1	15
2	10
3	14
4	13
5	12
6	15
Average value	13

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°

^{*} Test nol accredited by ACCREDIA # supply information by client N.A. nol applicable * test performed by an external qualified laboratory This test report refers only to the tested sample. It can't be partially reproduced without the written consent of the laboratory. Storage time of samples: samples are kept at the laboratory 30 days after the issue of the test report (with the exception of perishable products that are eliminated at the end of the analysis or maturity). For storage longer than one month must be specifically requested. Time of record keeping: the laboratory will keep a copy of the test reports for a period of 4 years and a copy of the records relating to analyzes for four years, unless special customer requirements, all documents relating to tests for approval of the products are stored for 10 years.

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Laboratorio di ricerca attamente qualificato art. 14 DM 593/2000 G.U. nº 29/2003 Organizzazione con Sistema di Gestione Cemircato secondo UNICEI EN ISO/IEC 17025 2005





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Test report n° 13-2365-006/E

Date of issue: 28/06/2013

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

- Slider Length: 76 mm
- Surface finish[#]: tumbled
- Slider and specimen condition: "dry"

Specimen N°	Average value ¹ (SRV "dry")	
1	61	
2	58	
3	60	
4	57	
5	59	
6	62	
Average value	60	

- Slider Length: 76 mm
- Surface finish[#]: tumbled
- Slider and specimen condition : "wet"

Specimen N°	N° Average value ¹ (SRV "wet")	
1	42	
2	37	
3	33	
4	34	
5	35	
6	38	
Average value	37	

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°

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Test report n° 13-2365-006/E

Date of issue: 28/06/2013

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

- Slider Length: 76 mm •
- Surface finish[#]: stardust
- Slider and specimen condition: "dry"

Specimen N°	ecimen N° Average value ¹ (SRV "dry")	
1	80	
2	72	
3	75	
4	70	
5	71	
6	72	
Average value	73	

- Slider Length: 76 mm
- Surface finish[#]: stardust
- Slider and specimen condition : "wet"

Specimen N°	Average value ¹ (SRV "wet") 65	
1		
2	63	
3	62	
4	62	
5	63	
6	64	
Average value	63	

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°

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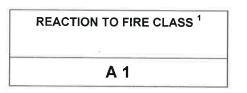
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DECLARATION OF REACTION TO FIRE CLASS (UNI EN 13501-1:2007)*



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

DETERMINATION OF RESISTANCE TO AGING BY THERMAL SHOCK (UNI EN 14066:2004)* - evaluation of change in mass after the cycles -

Cycle description: specimens are heated at 105°C for 18 h and immediately immerged in water at 20°C for 6 h. The total number of cycles are 20.

specimen n°	m₀ (g)	m _f (g)	∆m (%)	vioual departation
opconnon n			ΔΠ (70)	visual description
1	2080,8	2080,4	0,0	not appreciable alteration traces
2	2071,7	2071,0	0,0	not appreciable alteration traces
3	2080,9	2080,3	0,0	not appreciable alteration traces
4	2082,4	2081,8	0,0	not appreciable alteration traces
5	2151,0	2150,5	0,0	not appreciable alteration traces
6	2140,3	2139,9	0,0	not appreciable alteration traces
		Mean Value (%)	0,0	

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m₀ (g) = mass of dried specimen before the test m_f (g) = mass of dried specimen after the test Δm (%) = mass change after the cycles

Geotechnical Division The Director Dr. Geologist Francesco Bazzolo

Tesl not accredited by ACCREDIA

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