



Natural stone – Water absorption

REPORT Nº: **232941PN003**

DATE: **13-03-2023**

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PETITIONER: **Kurun Kivi Oy**
Kapeentie 1245, 34260 Terälahti. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery **03-01-2023**
Description **6 cubic specimens of nominal dimensions 50x50x50 mm**
Commercial name * **Kuru Grey**
Petrographic definition * **Granite**
Place of quarrying * **Kapee, Terälahti, Finland**
Supplier * **Kurun Kivi Oy**
Sampled by * **Petri Peltola (18-11-2022)**

* Information declared by the petitioner

TEST METHOD: **EN 13755:2008 Natural stone test methods. Determination of water absorption at atmospheric pressure**

Deviations –
Specimen preparation –
Place of testing **Centro Tecnológico del Mármol**
Dates of testing **08-02-2023 / 16-02-2023**





TEST REPORT

Natural stone – Water absorption

REPORT Nº: **232941PN003**

DATE: **13-03-2023**

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RESULTS:

Specimen

Water absorption, A_b (%)

Mean value of water absorption, \bar{A}_b

01	02	03	04	05	06
0,2	0,2	0,2	0,2	0,2	0,2
0,2 %					

Remarks: The uncertainties are calculated and at the client's disposal
The results are expressed to the nearest 0,1 %

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Natural stone – Apparent density and open porosity

REPORT Nº: **232941PN004A** DATE: **13-03-2023**

PAGE: **1/2**

PETITIONER: **Kurun Kivi Oy**
Kapeentie 1245, 34260 Terälahti. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery **03-01-2023**
Description **6 cubic specimens of nominal dimensions 50x50x50 mm**
Commercial name * **Kuru Grey**
Petrographic definition * **Granite**
Place of quarrying * **Kapee, Terälahti, Finland**
Supplier * **Kurun Kivi Oy**
Sampled by * **Petri Peltola (18-11-2022)**

* Information declared by the petitioner

TEST METHOD: **EN 1936:2007 Natural stone test methods. Determination of real density and apparent density, and of total and open porosity. Section 8.1**

Deviations –
Specimen preparation –
Place of testing **Centro Tecnológico del Mármol**
Dates of testing **30-01-2023 / 02-02-2023**



TEST REPORT

Natural stone – Apparent density and open porosity

REPORT Nº: **232941PN004A** DATE: **13-03-2023**

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RESULTS:

Specimen

Apparent density, ρ_b (kg/m³)

Open porosity, p_o (%)

Mean value of apparent density, $\bar{\rho}_b$

Mean value of open porosity, \bar{p}_o

07	08	09	10	11	12
2620	2620	2620	2620	2620	2620
0,5	0,5	0,5	0,5	0,5	0,4
2620 kg/m ³					
0,5 %					

Remarks: The uncertainties are calculated and at the client's disposal
The results of density are expressed to the nearest 10 kg/m³
The results of porosity are expressed to the nearest 0,1 %

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Natural stone – Abrasion resistance (Capon method)

REPORT Nº: **232941PN006** DATE: **13-03-2023** PAGE: **1/2**

PETITIONER: **Kurun Kivi Oy**
Kapeentie 1245, 34260 Terälahti. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery **03-01-2023**
Description **6 honed slabs of 150x150x30 mm**
Commercial name * **Kuru Grey**
Petrographic definition * **Granite**
Place of quarrying * **Kapee, Terälahti, Finland**
Supplier * **Kurun Kivi Oy**
Sampled by * **Petri Peltola (18-11-2022)**
Planes of anisotropy * **–**

* Information declared by the petitioner

TEST METHOD: **EN 14157:2017 Natural stone test methods. Determination of the abrasion resistance. Section 3**

Deviations **–**
Specimen preparation **–**
Calibration factor **0,3 mm**
Place of testing **Centro Tecnológico del Mármol**
Dates of testing **21-02-2023 / 23-02-2023**



TEST REPORT

Natural stone – Abrasion resistance (Capon method)

REPORT Nº: **232941PN006**

DATE: **13-03-2023**

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RESULTS:

Specimen	13	14	15	16	17	18
Groove lengths (mm)	16,5	16,5	17,0	16,0	16,0	16,5
	16,5	17,0	16,5	16,5	16,5	16,0
Mean value of groove length	16,5 mm					
Standard deviation	0,2 mm					
Higher expected value, E_H	17,0 mm					

Remarks: The uncertainties are calculated and at the client's disposal
The results are expressed to the nearest 0,5 mm
According to EN 14157, only the biggest grooves of each specimen are considered

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Natural stone – Frost resistance (technological test)

REPORT Nº: **232941PN008B** DATE: **13-03-2023**

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PETITIONER: **Kurun Kivi Oy**
Kapeentie 1245, 34260 Terälahti. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery **03-01-2023**
Description **2 sets of 10 specimens of nominal dimensions 300x50x50 mm**
Commercial name * **Kuru Grey**
Petrographic definition * **Granite**
Place of quarrying * **Kapee, Terälahti, Finland**
Supplier * **Kurun Kivi Oy**
Sampled by * **Petri Peltola (18-11-2022)**
Planes of anisotropy * **–**

* Information declared by the petitioner

TEST METHOD: **EN 12371:2010 Natural stone test methods. Determination of frost resistance. Section 7.3.1**

Deviations **–**
Specimen preparation **–**
Conditioning **Drying in oven at 70±5°C to constant mass**
Load direction **–**
Place of testing **Centro Tecnológico del Mármol**
Dates of testing **25-01-2023 / 02-03-2023**



TEST REPORT

Natural stone – Frost resistance (technological test)

REPORT Nº: **232941PN008B** DATE: **13-03-2023**

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RESULTS:

Set 1 (not subjected to freeze-thaw cycles)

Specimen	49	50	51	52	53	54	55	56	57	58
Breaking thickness, h (mm)	51,0	51,9	51,0	51,4	49,3	51,1	52,7	51,0	51,8	50,8
Breaking width, b (mm)	49,6	47,5	49,6	47,6	49,3	51,2	49,0	48,2	51,1	48,8
Span, l (mm)	250,0	250,0	250,0	250,0	250,0	250,0	250,0	250,0	250,0	250,0
Load increase (MPa/s)	0,24	0,24	0,24	0,25	0,26	0,23	0,23	0,25	0,23	0,25
Breaking load, F (N)	7200	7840	7670	7730	6840	7310	8410	7160	8210	7140
Distance fracture to centre (mm)	1,7	2,0	4,2	6,5	0,5	1,4	1,1	5,7	2,9	6,2
Flexural strength, R_{tf} (MPa)	20,9	23,0	22,3	23,0	21,4	20,5	23,1	21,4	22,4	21,3

Set 2 (subjected to 56 freeze-thaw cycles)

Specimen	19	20	21	22	23	24	25	26	27	28
Breaking thickness, h (mm)	51,2	50,3	51,7	52,1	51,3	51,3	51,9	49,5	51,4	51,3
Breaking width, b (mm)	51,5	49,3	48,2	46,7	48,8	51,2	51,2	49,3	48,8	50,9
Span, l (mm)	250,0	250,0	250,0	250,0	250,0	250,0	250,0	250,0	250,0	250,0
Load increase (MPa/s)	0,23	0,25	0,24	0,25	0,24	0,23	0,23	0,26	0,24	0,23
Breaking load, F (N)	7430	7270	7370	7290	7060	7590	7510	6700	7180	7150
Distance fracture to centre (mm)	9,8	3,6	7,0	6,4	4,1	4,7	1,8	8,2	3,0	3,2
Flexural strength, R_{tf} (MPa)	20,6	21,9	21,4	21,5	20,7	21,1	20,4	20,8	20,9	20,0



TEST REPORT

Natural stone – Frost resistance (technological test)

REPORT Nº: **232941PN008B** DATE: **13-03-2023**

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Mean value of flexural strength, F_0

21,9 MPa

Standard deviation, s

1,0 MPa

Mean value of flexural strength after 56 cycles, F_{56}

20,9 MPa

Standard deviation, s

0,6 MPa

Decrease of flexural strength after 56 cycles

5,0 %

Remarks: The uncertainties are calculated and at the client's disposal

The sample received consisted of 20 undifferentiated specimens. The separation between the two sets of 10 specimens to be tested, was carried out at random by the laboratory

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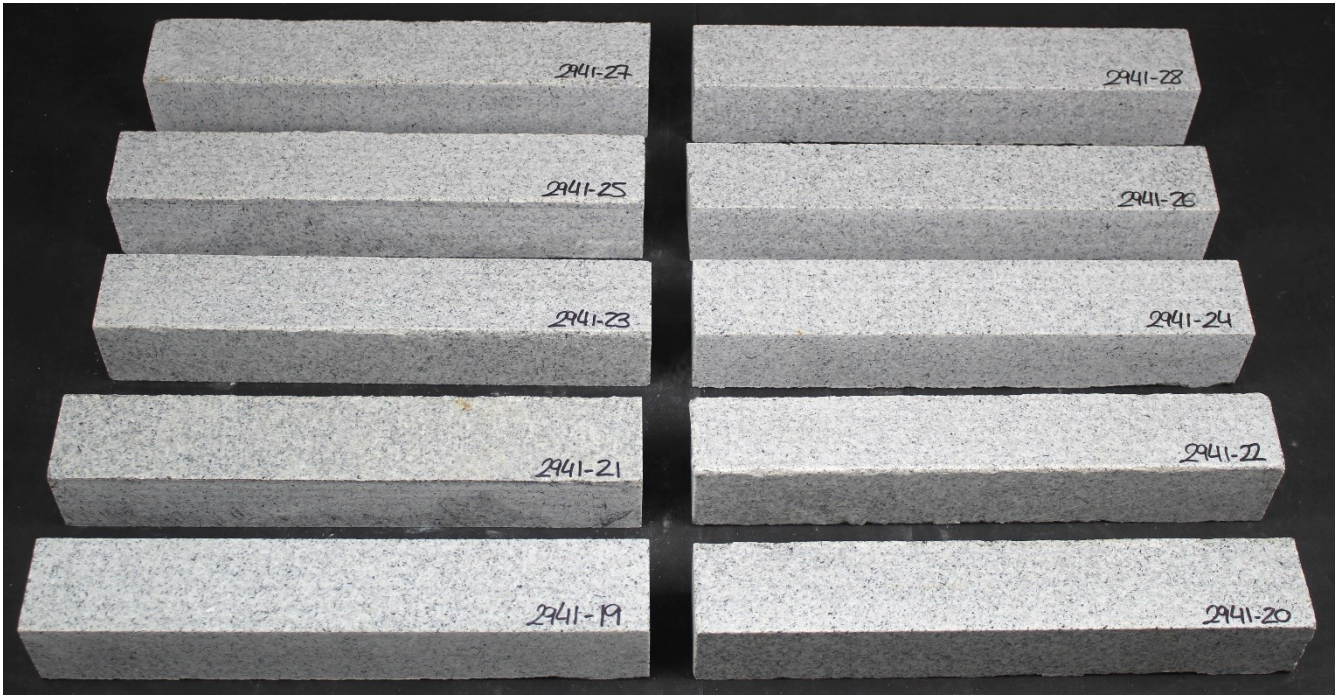
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Natural stone – Frost resistance (technological test)

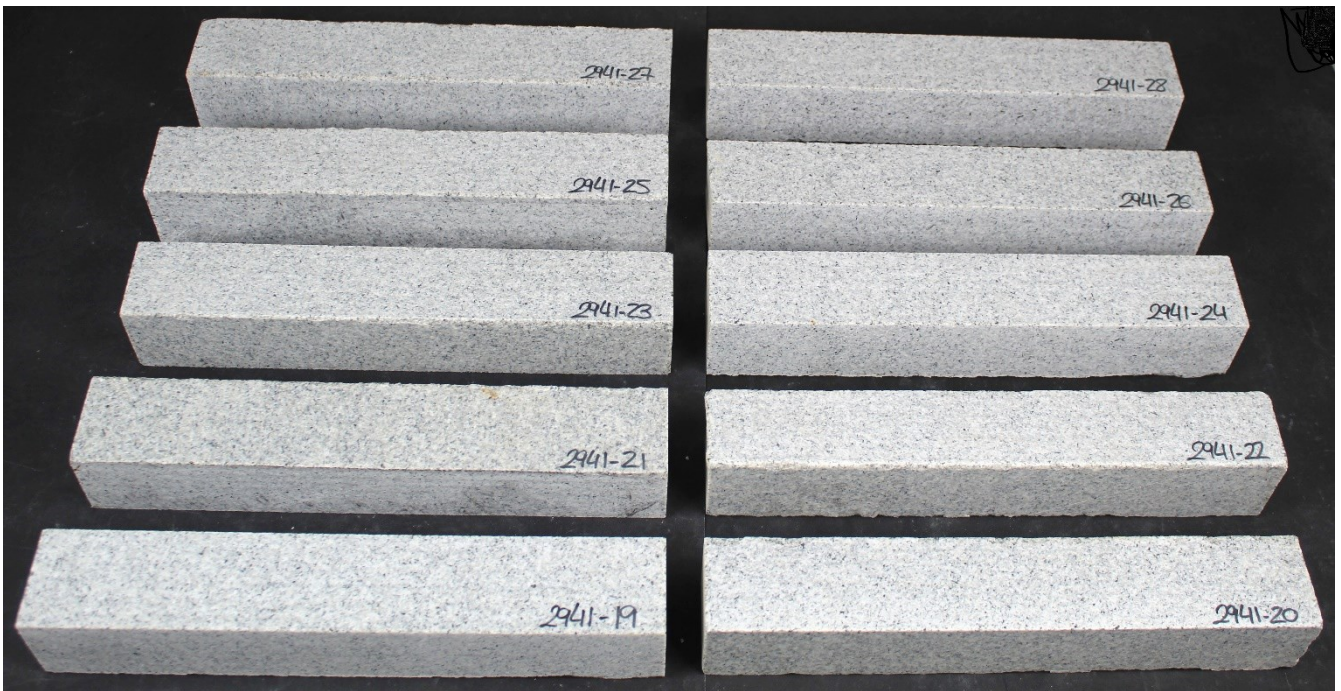
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Set 2 before freeze-thaw cycles



Set 2 after 56 freeze-thaw cycles



Natural stone – Frost resistance (technological test)

REPORT Nº: **232941PN008D** DATE: **13-03-2023**

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PETITIONER: **Kurun Kivi Oy**
Kapeentie 1245, 34260 Terälahti. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery **03-01-2023**
Description **2 sets of 10 cubic specimens of nominal dimensions 70x70x70 mm**
Commercial name * **Kuru Grey**
Petrographic definition * **Granite**
Place of quarrying * **Kapee, Terälahti, Finland**
Supplier * **Kurun Kivi Oy**
Sampled by * **Petri Peltola (18-11-2022)**
Planes of anisotropy * **–**

* Information declared by the petitioner

TEST METHOD: **EN 12371:2010 Natural stone test methods. Determination of frost resistance. Section 7.3.1**

Deviations **–**
Specimen preparation **–**
Conditioning **Drying in oven at 70±5°C to constant mass**
Load direction **–**
Place of testing **Centro Tecnológico del Mármol**
Dates of testing **25-01-2023 / 02-03-2023**



TEST REPORT

Natural stone – Frost resistance (technological test)

REPORT Nº: **232941PN008D** DATE: **13-03-2023**

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RESULTS:

Set 1 (not subjected to freeze-thaw cycles)

Specimen	39	40	41	42	43	44	45	46	47	48
Average width of faces, \bar{l} (mm)	71,3	71,4	70,1	70,1	71,4	71,2	70,5	70,2	71,1	70,7
Height, h (mm)	71,0	71,7	69,7	71,6	71,6	71,6	71,2	70,8	69,3	71,5
Breaking load, F (kN)	1190	1270	1230	1130	1230	1340	1360	1400	980	1270
Compressive strength, R (MPa)	235	249	251	229	241	265	274	284	194	255

Set 2 (subjected to 56 freeze-thaw cycles)

Specimen	29	30	31	32	33	34	35	36	37	38
Average width of faces, \bar{l} (mm)	71,3	70,2	70,2	70,3	71,0	71,3	70,2	71,5	71,3	71,2
Height, h (mm)	71,7	71,5	71,4	71,4	71,4	71,4	71,5	71,6	71,7	71,4
Breaking load, F (kN)	1120	1200	1270	1370	1270	1280	1200	1180	1200	1250
Compressive strength, R (MPa)	219	243	257	277	252	253	243	230	236	247



TEST REPORT

Natural stone – Frost resistance (technological test)

REPORT Nº: **232941PN008D** DATE: **13-03-2023**

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Mean value of compressive strength, R_0

248 MPa

Standard deviation, s

25 MPa

Mean value of compressive strength after 56 cycles, R_{56}

246 MPa

Standard deviation, s

16 MPa

Decrease of compressive strength after 56 cycles

1,0 %

Remarks: The uncertainties are calculated and at the client's disposal

The sample received consisted of 20 undifferentiated specimens. The separation between the two sets of 10 specimens to be tested, was carried out at random by the laboratory

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Natural stone – Frost resistance (technological test)

REPORT Nº: 232941PN008D DATE: 13-03-2023

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Set 2 before freeze-thaw cycles



Set 2 after 56 freeze-thaw cycles



Natural stone – Compressive strength

REPORT Nº: **232941PN009A** DATE: **13-03-2023**

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PETITIONER: **Kurun Kivi Oy**
Kapeentie 1245, 34260 Terälahti. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery **03-01-2023**
Description **10 cubic specimens of nominal dimensions 70x70x70 mm**
Commercial name * **Kuru Grey**
Petrographic definition * **Granite**
Place of quarrying * **Kapee, Terälahti, Finland**
Supplier * **Kurun Kivi Oy**
Sampled by * **Petri Peltola (18-11-2022)**
Planes of anisotropy * **–**

* Information declared by the petitioner

TEST METHOD: **EN 1926:2006 Natural stone test methods. Determination of uniaxial compressive strength**

Deviations **–**
Specimen preparation **–**
Conditioning **Drying in oven at 70±5°C to constant mass**
Load direction **–**
Place of testing **Centro Tecnológico del Mármol**
Dates of testing **22-02-2023 / 28-02-2023**





TEST REPORT

Natural stone – Compressive strength

REPORT Nº: 232941PN009A DATE: 13-03-2023

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RESULTS:

Specimen	39	40	41	42	43	44	45	46	47	48
Average width of faces, \bar{l} (mm)	71,3	71,4	70,1	70,1	71,4	71,2	70,5	70,2	71,1	70,7
Height, h (mm)	71,0	71,7	69,7	71,6	71,6	71,6	71,2	70,8	69,3	71,5
Breaking load, F (kN)	1190	1270	1230	1130	1230	1340	1360	1400	980	1270
Compressive strength, R (MPa)	235	249	251	229	241	265	274	284	194	255
Average compressive strength, \bar{R}	248 MPa									
Standard deviation, s	25 MPa									
Coefficient of variation, v	0,10									
Lower expected value, E	197 MPa									

Remarks: The uncertainties are calculated and at the client's disposal

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Natural stone – Flexural strength

REPORT Nº: **232941PN010** DATE: **13-03-2023** PAGE: **1/2**

PETITIONER: **Kurun Kivi Oy**
Kapeentie 1245, 34260 Terälahti. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery **03-01-2023**
Description **10 specimens of nominal dimensions 300x50x50 mm**
Commercial name * **Kuru Grey**
Petrographic definition * **Granite**
Place of quarrying * **Kapee, Terälahti, Finland**
Supplier * **Kurun Kivi Oy**
Sampled by * **Petri Peltola (18-11-2022)**
Planes of anisotropy * **–**

* Information declared by the petitioner

TEST METHOD: **EN 12372:2022 Natural stone test methods. Determination of flexural strength under concentrated load**

Deviations **–**
Specimen preparation **–**
Conditioning **Drying in oven at 70±5°C to constant mass**
Load direction **–**
Place of testing **Centro Tecnológico del Mármol**
Dates of testing **22-02-2023 / 28-02-2023**





TEST REPORT

Natural stone – Flexural strength

REPORT Nº: **232941PN010**

DATE: **13-03-2023**

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RESULTS:

Specimen	49	50	51	52	53	54	55	56	57	58
Breaking thickness, h (mm)	51,0	51,9	51,0	51,4	49,3	51,1	52,7	51,0	51,8	50,8
Breaking width, b (mm)	49,6	47,5	49,6	47,6	49,3	51,2	49,0	48,2	51,1	48,8
Span, l (mm)	250,0	250,0	250,0	250,0	250,0	250,0	250,0	250,0	250,0	250,0
Load increase (MPa/s)	0,24	0,24	0,24	0,25	0,26	0,23	0,23	0,25	0,23	0,25
Breaking load, F (N)	7200	7840	7670	7730	6840	7310	8410	7160	8210	7140
Distance fracture to centre (mm)	1,7	2,0	4,2	6,5	0,5	1,4	1,1	5,7	2,9	6,2
Flexural strength, R_{tf} (MPa)	20,9	23,0	22,3	23,0	21,4	20,5	23,1	21,4	22,4	21,3
Average flexural strength, \bar{R}_{tf}	21,9 MPa									
Standard deviation, s	1,0 MPa									
Lower expected value, E	20,0 MPa									

Remarks: The uncertainties are calculated and at the client's disposal

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Natural stone – Breaking load at dowel hole

REPORT Nº: **232941PN012A** DATE: **13-03-2023**

PAGE: **1/2**

PETITIONER: **Kurun Kivi Oy**
Kapeentie 1245, 34260 Terälahti. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery **03-01-2023**

Description **10 slabs of nominal dimensions 200x200x30 mm with honed surface finish (exposed face)**

Commercial name * **Kuru Grey**

Petrographic definition * **Granite**

Place of quarrying * **Kapee, Terälahti, Finland**

Supplier * **Kurun Kivi Oy**

Sampled by * **Petri Peltola (18-11-2022)**

Planes of anisotropy * **–**

* Information declared by the petitioner

TEST METHOD: **EN 13364:2001 Natural stone test methods. Determination of the breaking load at dowel hole**

Deviations **–**

Specimen preparation **–**

Conditioning **Drying in oven at 70±5°C to constant mass**

Load direction **–**

Place of testing **Centro Tecnológico del Mármol**

Dates of testing **01-03-2023 / 07-03-2023**





TEST REPORT

Natural stone – Breaking load at dowel hole

REPORT Nº: **232941PN012A** DATE: **13-03-2023**

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RESULTS:

Specimen	59	60	61	62	63	64	65	66	67	68
Thickness, d (mm)	31	31	31	31	31	31	31	31	31	31
Breaking thickness, d_1 (mm)	11,2	11,1	11,3	11,3	11,0	11,3	11,2	11,3	11,0	11,3
Breaking load, F (N)	2750	2450	2600	2950	2500	2650	2450	1900	2500	2800
Maximum fracture length, b_A (mm)	30,3	34,0	40,7	38,6	39,5	43,1	41,7	38,0	31,2	37,0
Mean value of breaking load, \bar{F}	2550 N									
Standard deviation, s	300 N									
Lower expected value, E	1990 N									
Mean value of breaking thickness, \bar{d}_1	11,2 mm									
Mean value of maximum fracture lengths, \bar{b}_A	37,4 mm									

Remarks: The uncertainties are calculated and at the client's disposal
The results of breaking load and standard deviation are expressed to the nearest 50 N

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PN020AE2201

TEST REPORT

Natural stone – Slip resistance

REPORT Nº: **232941PN020A** DATE: **13-03-2023**

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PETITIONER: **Kurun Kivi Oy**
Kapeentie 1245, 34260 Terälahti. (Finland)

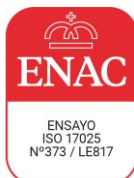
SAMPLE IDENTIFICATION:

Date of delivery **03-01-2023**
Description **3 slabs of 300x300x50 mm**
Surface finish * **Honed**
Commercial name * **Kuru Grey**
Petrographic definition * **Granite**
Place of quarrying * **Kapee, Terälahti, Finland**
Supplier * **Kurun Kivi Oy**
Sampled by * **Petri Peltola (18-11-2022)**

* Information declared by the petitioner

TEST METHOD: **EN 14231:2003 Natural stone test methods. Determination of the slip resistance by means of the pendulum tester**

Deviations **–**
Specimen preparation **–**
Slider used **76,2 x 25,4 mm**
Place of testing **Centro Tecnológico del Mármol**
Dates of testing **23-02-2023 / 24-02-2023**



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TEST REPORT

Natural stone – Slip resistance

REPORT Nº: **232941PN020A** DATE: **13-03-2023**

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RESULTS:

Specimen	69.1	69.2	70.3	70.4	71.5	71.6
Individual values of the slip resistance, in dry condition	65	65	64	62	65	66
Individual values of the slip resistance, in wet condition	26	29	26	25	28	31
Average slip resistance, in dry condition (SRV "dry")	64		Uncertainty		± 3	
Average slip resistance, in wet condition (SRV "wet")	27		Uncertainty		± 2	

Remarks: The expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $K=2$, which for a normal distribution provides a level of confidence of about 95%

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PN020JE2201

TEST REPORT

Slip resistance (slipperiness)

REPORT Nº: **232941PN020J** DATE: **13-03-2023**

PAGE: **1/2**

PETITIONER: **Kurun Kivi Oy**
Kapeentie 1245, 34260 Terälahti. (Finland)

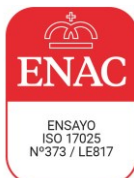
SAMPLE IDENTIFICATION:

Date of delivery **03-01-2023**
Description **1 natural stone slab of 300x300x50 mm**
Surface finish * **Honed**
Commercial name * **Kuru Grey**
Petrographic definition * **Granite**
Place of quarrying * **Kapee, Terälahti, Finland**
Supplier * **Kurun Kivi Oy**
Sampled by * **Petri Peltola (18-11-2022)**

* Information declared by the petitioner

TEST METHOD: **EN 16165:2021 Determination of slip resistance of pedestrian surfaces - Methods of evaluation. Annex C Pendulum test**

Deviations **–**
Type of slider used **57**
Place of testing **Centro Tecnológico del Mármol**
Dates of testing **23-02-2023 / 24-02-2023**



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TEST REPORT

Slip resistance (slipperiness)

REPORT Nº: **232941PN020J** DATE: **13-03-2023**

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RESULTS:

Test conditions	Dry	Wet
Slipperiness measured towards 0°	64	25
Slipperiness measured towards 90°	63	28
Slipperiness measured towards 45°	60	24
Value of the slipperiness, <i>PTV</i>	60	24
Uncertainty	± 3	± 1

Remarks: The expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $K=2$, which for a normal distribution provides a level of confidence of about 95%

DISCLAIMER:

The laboratory is not responsible for the sampling or for the information declared by the client. The results refer only to the sample received at the laboratory, on the expressed date.

This report shall not be reproduced, except in full, without the written consent of the laboratory.

Digitally signed by

Antonio Molina
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