Centro Tecnológico del mármol

TEST REPORT

Natural stone – Water absorption

REPORT Nº: **232943PN003** DATE: **20-03-2023** PAGE: **1/2**

PETITIONER: **Kymen Granite Oy**

Myllykallionkuja 41, 45100 Kouvola. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery	**03-01-2023**
Description	**6 cubic specimens of nominal dimensions 50x50x50 mm**
Commercial name *	**Kymen Red**
Petrographic definition *	**–**
Place of quarrying *	**Haapala Kouvola**
Supplier *	**Kymen Granite Oy**
Sampled by *	**Kari Rahkonen (15-11-2022)**

* 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**

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Asociación Empresarial de Investigación Centro Tecnológico del Mármol, la Piedra y Materiales
Ctra. de Murcia s/n. 30430 Cehegín, Murcia, Spain
Tel.: +34 968 741 500
http://www.ctmarmol.es/
email: laboratorio@ctmarmol.es

Centro Tecnológico del mármol

TEST REPORT

Natural stone – Water absorption

REPORT Nº: **232943PN003** DATE: **20-03-2023**

RESULTS:

Specimen	01	02	03	04	05	06
Water absorption, A_b (%)	0,1	0,1	0,1	0,1	0,1	0,1
Mean value of water absorption, $\bar{A}_b$	0,1 %					

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

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Director Técnico

Centro Tecnológico del mármol

TEST REPORT

Natural stone – Apparent density and open porosity

REPORT Nº: **232943PN004A** DATE: **20-03-2023** PAGE: **1/2**

PETITIONER: **Kymen Granite Oy**

Myllykallionkuja 41, 45100 Kouvola. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery	**03-01-2023**
Description	**6 cubic specimens of nominal dimensions 50x50x50 mm**
Commercial name *	**Kymen Red**
Petrographic definition *	**–**
Place of quarrying *	**Haapala Kouvola**
Supplier *	**Kymen Granite Oy**
Sampled by *	**Kari Rahkonen (15-11-2022)**

* 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**

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Ctra. de Murcia s/n. 30430 Cehegín, Murcia, Spain
Tel.: +34 968 741 500
http://www.ctmarmol.es/
email: laboratorio@ctmarmol.es

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TEST REPORT

Natural stone – Apparent density and open porosity

REPORT Nº: **232943PN004A** DATE: **20-03-2023** PAGE: **2/2**

RESULTS:

Specimen	07	08	09	10	11	12
Apparent density, ρ_b (kg/m^3)	2620	2620	2620	2620	2620	2620
Open porosity, p_o (%)	0,4	0,4	0,4	0,5	0,4	0,4
Mean value of apparent density, $\bar{\rho}_b$	2620 kg/m^3					
Mean value of open porosity, $\bar{p}_o$	0,4 %					

Remarks: The uncertainties are calculated and at the client's disposal
The results of density are expressed to the nearest 10 kg/m^3
The results of porosity are expressed to the nearest 0,1 %

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TEST REPORT

Natural stone – Abrasion resistance (Capon method)

REPORT Nº: **232943PN006** DATE: **20-03-2023** PAGE: **1/2**

PETITIONER: **Kymen Granite Oy**

Myllykallionkuja 41, 45100 Kouvola. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery	**03-01-2023**
Description	**6 polished slabs of 150x150x30 mm**
Commercial name *	**Kymen Brown**
Petrographic definition *	**–**
Place of quarrying *	**Haapala Kouvola**
Supplier *	**Kymen Granite Oy**
Sampled by *	**Kari Rahkonen (15-11-2022)**
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	**01-03-2023 / 06-03-2023**

ENAC ENSAYO ISO 17025 Nº373 / LE817

Asociación Empresarial de Investigación Centro Tecnológico del Mármol, la Piedra y Materiales
Ctra. de Murcia s/n. 30430 Cehegín, Murcia, Spain
Tel.: +34 968 741 500
http://www.ctmarmol.es/
email: laboratorio@ctmarmol.es

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TEST REPORT

Natural stone – Abrasion resistance (Capon method)

REPORT Nº: **232943PN006** DATE: **20-03-2023** PAGE: **2/2**

RESULTS:

Specimen	13	14	15	16	17	18
Groove lengths (mm)	13,5	14,0	14,5	14,5	14,5	15,0
	14,0	14,5	15,0	14,0	14,5	14,5
Mean value of groove length	14,5 mm					
Standard deviation	0,3 mm					
Higher expected value, E_H	15,5 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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TEST REPORT

Natural stone – Frost resistance (technological test)

REPORT Nº: **232943PN008B** DATE: **20-03-2023** PAGE: **1/4**

PETITIONER: **Kymen Granite Oy**
Myllykallionkuja 41, 45100 Kouvola. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery	**03-01-2023**
Description	**2 sets of 10 specimens of nominal dimensions 300x50x50 mm**
Commercial name *	**Kymen Red**
Petrographic definition *	**–**
Place of quarrying *	**Haapala Kouvola**
Supplier *	**Kymen Granite Oy**
Sampled by *	**Kari Rahkonen (15-11-2022)**
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±5ºC to constant mass**
Load direction	**–**
Place of testing	**Centro Tecnológico del Mármol**
Dates of testing	**08-02-2023 / 16-03-2023**

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Asociación Empresarial de Investigación Centro Tecnológico del Mármol, la Piedra y Materiales
Ctra. de Murcia s/n. 30430 Cehegín, Murcia, Spain
Tel.: +34 968 741 500
http://www.ctmarmol.es/
email: laboratorio@ctmarmol.es

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TEST REPORT

Natural stone – Frost resistance (technological test)

REPORT Nº: **232943PN008B** DATE: **20-03-2023** PAGE: **2/4**

RESULTS:

Set 1 (not subjected to freeze-thaw cycles)

Specimen	49	50	51	52	53	54	55	56	57	58
Breaking thickness, h (mm)	49,4	49,0	49,8	50,0	49,6	49,4	50,0	50,0	49,1	50,8
Breaking width, b (mm)	50,6	50,6	50,6	50,4	50,5	50,5	50,4	49,9	50,6	50,5
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)	0,25	0,26	0,25	0,25	0,25	0,25	0,25	0,25	0,26	0,24
Breaking load, F (N)	4720	4170	4780	4180	3930	3970	4770	4180	4130	4420
Distance fracture to centre (mm)	14,4	1,9	23,6	7,7	14,6	5,2	0,9	18,5	9,5	16,5
Flexural strength, R_{tf} (MPa)	14,3	12,9	14,3	12,4	11,9	12,1	14,2	12,5	12,7	12,8

Set 2 (subjected to 56 freeze-thaw cycles)

Specimen	19	20	21	22	23	24	25	26	27	28
Breaking thickness, h (mm)	50,6	50,4	49,6	49,6	60,8	50,2	50,0	49,8	50,2	50,3
Breaking width, b (mm)	50,0	50,0	50,1	50,3	50,5	50,2	50,4	50,2	49,7	50,6
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	0,25	0,25	0,25	0,17	0,25	0,25	0,25	0,25	0,24
Breaking load, F (N)	4170	4830	3550	4220	4170	4040	4340	4170	4430	3590
Distance fracture to centre (mm)	4,1	3,4	0,2	18,5	4,2	9,2	4,1	6,7	2,3	10,6
Flexural strength, R_{tf} (MPa)	12,3	14,2	10,8	12,8	8,4	12,0	12,9	12,6	13,2	10,5

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TEST REPORT

Natural stone – Frost resistance (technological test)

REPORT Nº: **232943PN008B** DATE: **20-03-2023**

Mean value of flexural strength, F_0	**13,0 MPa**
Standard deviation, s	**0,9 MPa**
Mean value of flexural strength after 56 cycles, F_{56}	**12,0 MPa**
Standard deviation, s	**1,7 MPa**
Decrease of flexural strength after 56 cycles	**8,0 %**

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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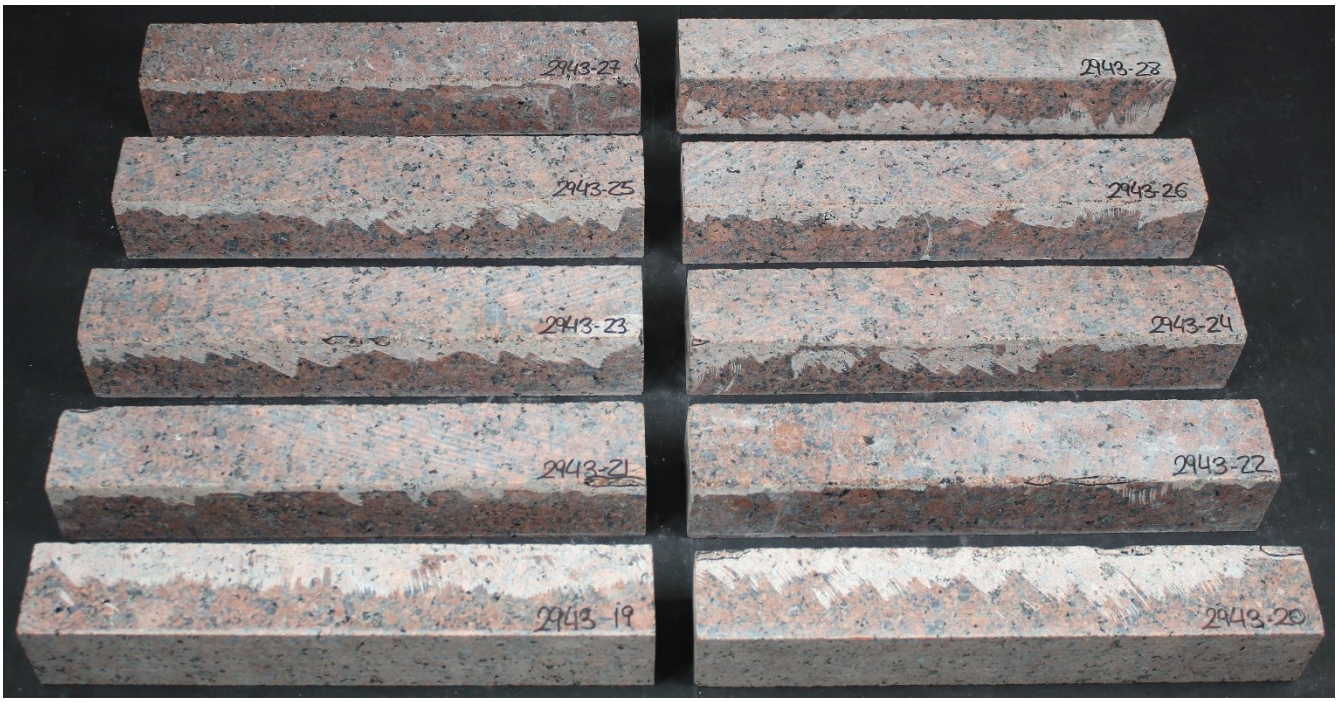
TEST REPORT

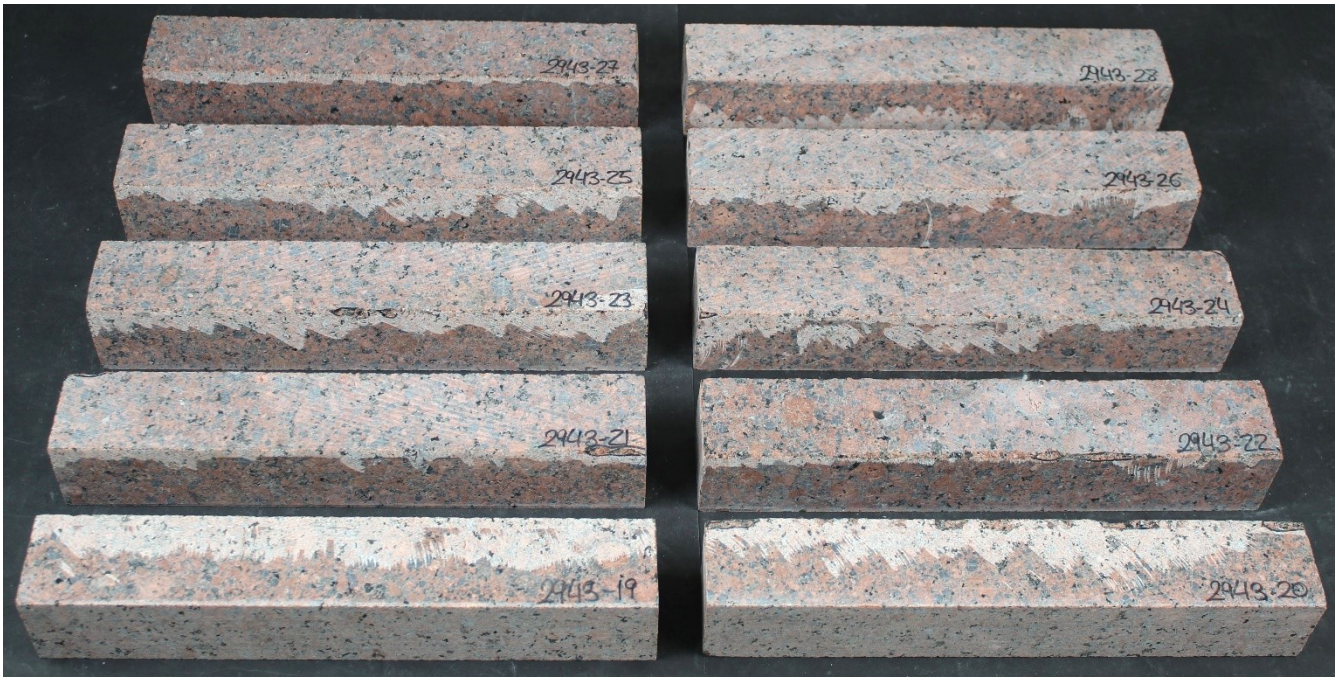
Natural stone – Frost resistance (technological test)

REPORT Nº: **232943PN008B** DATE: **20-03-2023** PAGE: **4/4**

Set 2 before freeze-thaw cycles



Set 2 after 56 freeze-thaw cycles



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TEST REPORT

Natural stone – Frost resistance (technological test)

REPORT Nº: **232943PN008D** DATE: **20-03-2023** PAGE: **1/4**

PETITIONER: **Kymen Granite Oy**
Myllykallionkuja 41, 45100 Kouvola. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery	**03-01-2023**
Description	**2 sets of 10 cubic specimens of nominal dimensions 70x70x70 mm**
Commercial name *	**Kymen Red**
Petrographic definition *	**–**
Place of quarrying *	**Haapala Kouvola**
Supplier *	**Kymen Granite Oy**
Sampled by *	**Kari Rahkonen (15-11-2022)**
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±5ºC to constant mass**
Load direction	**–**
Place of testing	**Centro Tecnológico del Mármol**
Dates of testing	**08-02-2023 / 15-03-2023**

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Asociación Empresarial de Investigación Centro Tecnológico del Mármol, la Piedra y Materiales
Ctra. de Murcia s/n. 30430 Cehegín, Murcia, Spain
Tel.: +34 968 741 500
http://www.ctmarmol.es/
email: laboratorio@ctmarmol.es

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TEST REPORT

Natural stone – Frost resistance (technological test)

REPORT Nº: **232943PN008D** DATE: **20-03-2023**

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)	70,6	70,7	69,9	70,3	70,1	70,6	70,6	69,7	70,4	69,9
Height, h (mm)	69,5	69,1	70,6	69,2	70,4	69,2	69,1	70,8	69,4	70,6
Breaking load, F (kN)	1020	1020	680	1020	870	1200	1190	870	1080	830
Compressive strength, R (MPa)	205	204	140	207	176	241	239	179	217	171

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)	70,5	70,3	70,0	70,4	70,2	69,8	70,5	70,9	70,6	69,8
Height, h (mm)	69,5	68,8	70,6	69,5	69,4	70,4	69,3	69,1	69,3	71,0
Breaking load, F (kN)	1130	1100	800	1160	1140	820	1010	1080	1090	690
Compressive strength, R (MPa)	227	222	163	235	231	168	202	216	219	141

Centro Tecnológico del mármol

TEST REPORT

Natural stone – Frost resistance (technological test)

REPORT Nº: **232943PN008D** DATE: **20-03-2023**

Mean value of compressive strength, R_0	**198 MPa**
Standard deviation, s	**32 MPa**
Mean value of compressive strength after 56 cycles, R_{56}	**202 MPa**
Standard deviation, s	**33 MPa**
Decrease of compressive strength after 56 cycles	**0,0 %**

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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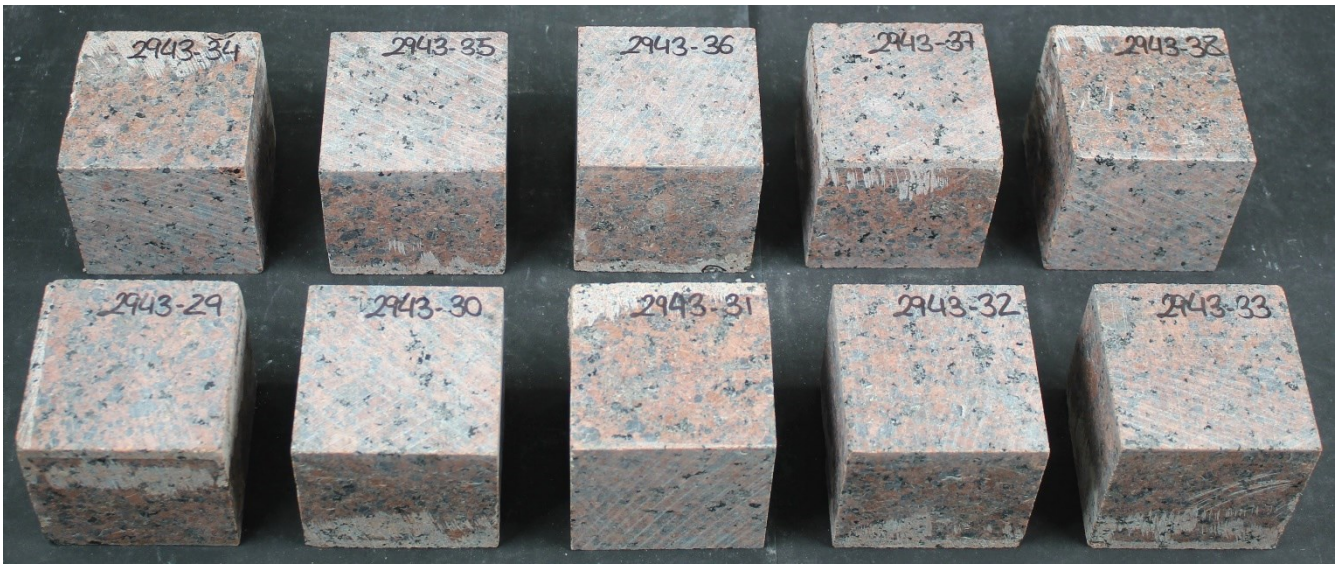
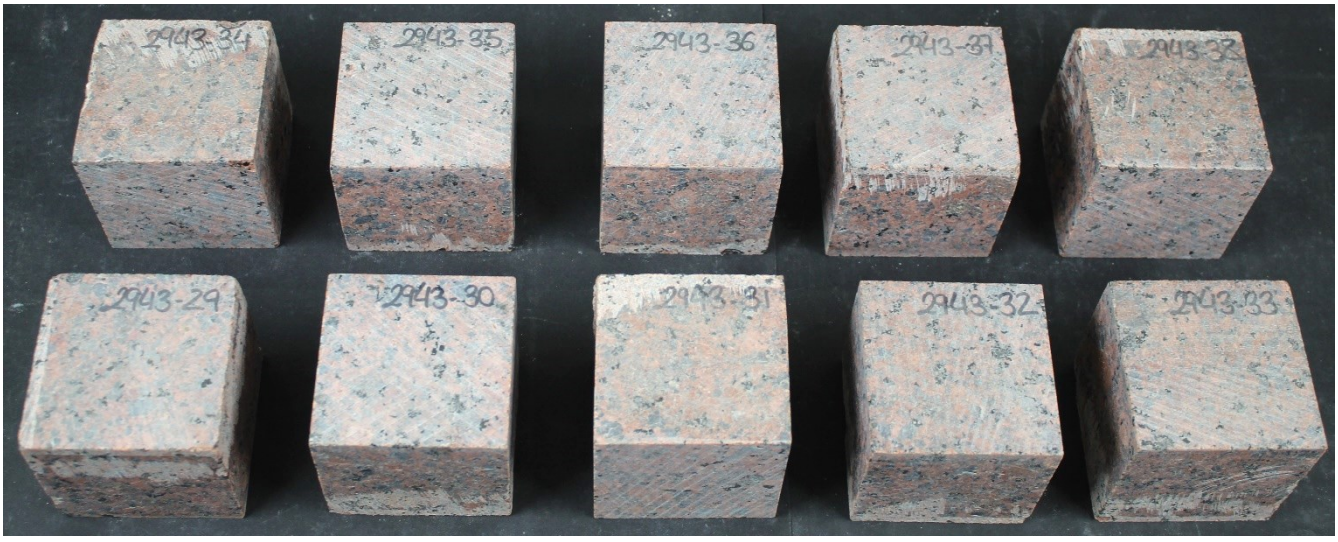
TEST REPORT

Natural stone – Frost resistance (technological test)

Set 2 before freeze-thaw cycles



Set 2 after 56 freeze-thaw cycles



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TEST REPORT

Natural stone – Compressive strength

REPORT Nº: **232943PN009A** DATE: **20-03-2023** PAGE: **1/2**

PETITIONER: **Kymen Granite Oy**

Myllykallionkuja 41, 45100 Kouvola. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery	**03-01-2023**
Description	**10 cubic specimens of nominal dimensions 70x70x70 mm**
Commercial name *	**Kymen Red**
Petrographic definition *	**–**
Place of quarrying *	**Haapala Kouvola**
Supplier *	**Kymen Granite Oy**
Sampled by *	**Kari Rahkonen (15-11-2022)**
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±5ºC to constant mass**
Load direction	**–**
Place of testing	**Centro Tecnológico del Mármol**
Dates of testing	**06-03-2023 / 08-03-2023**

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Asociación Empresarial de Investigación Centro Tecnológico del Mármol, la Piedra y Materiales
Ctra. de Murcia s/n. 30430 Cehegín, Murcia, Spain
Tel.: +34 968 741 500
http://www.ctmarmol.es/
email: laboratorio@ctmarmol.es

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TEST REPORT

Natural stone – Compressive strength

REPORT Nº: **232943PN009A** DATE: **20-03-2023**

RESULTS:

Specimen	39	40	41	42	43	44	45	46	47	48
Average width of faces, $\bar{l}$ (mm)	70,6	70,7	69,9	70,3	70,1	70,6	70,6	69,7	70,4	69,9
Height, h (mm)	69,5	69,1	70,6	69,2	70,4	69,2	69,1	70,8	69,4	70,6
Breaking load, F (kN)	1020	1020	680	1020	870	1200	1190	870	1080	830
Compressive strength, R (MPa)	205	204	140	207	176	241	239	179	217	171
Average compressive strength, $\bar{R}$	**198 MPa**									
Standard deviation, s	**32 MPa**									
Coefficient of variation, v	**0,16**									
Lower expected value, E	**138 MPa**									

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

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TEST REPORT

Natural stone – Flexural strength

REPORT Nº: **232943PN010** DATE: **20-03-2023** PAGE: **1/2**

PETITIONER: **Kymen Granite Oy**

Myllykallionkuja 41, 45100 Kouvola. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery	**03-01-2023**
Description	**10 specimens of nominal dimensions 300x50x50 mm**
Commercial name *	**Kymen Red**
Petrographic definition *	**–**
Place of quarrying *	**Haapala Kouvola**
Supplier *	**Kymen Granite Oy**
Sampled by *	**Kari Rahkonen (15-11-2022)**
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±5ºC to constant mass**	
Load direction	**–**	
Place of testing	**Centro Tecnológico del Mármol**	
Dates of testing	**06-03-2023 / 09-03-2023**	

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Asociación Empresarial de Investigación Centro Tecnológico del Mármol, la Piedra y Materiales
Ctra. de Murcia s/n. 30430 Cehegín, Murcia, Spain
Tel.: +34 968 741 500
http://www.ctmarmol.es/
email: laboratorio@ctmarmol.es

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TEST REPORT

Natural stone – Flexural strength

REPORT Nº: **232943PN010** DATE: **20-03-2023**

RESULTS:

Specimen	49	50	51	52	53	54	55	56	57	58
Breaking thickness, h (mm)	49,4	49,0	49,8	50,0	49,6	49,4	50,0	50,0	49,1	50,8
Breaking width, b (mm)	50,6	50,6	50,6	50,4	50,5	50,5	50,4	49,9	50,6	50,5
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)	0,25	0,26	0,25	0,25	0,25	0,25	0,25	0,25	0,26	0,24
Breaking load, F (N)	4720	4170	4780	4180	3930	3970	4770	4180	4130	4420
Distance fracture to centre (mm)	14,4	1,9	23,6	7,7	14,6	5,2	0,9	18,5	9,5	16,5
Flexural strength, R_{tf} (MPa)	14,3	12,9	14,3	12,4	11,9	12,1	14,2	12,5	12,7	12,8
Average flexural strength, $\bar{R}_{tf}$	13,0 MPa									
Standard deviation, s	0,9 MPa									
Lower expected value, E	11,2 MPa									

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

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TEST REPORT

Natural stone – Breaking load at dowel hole

REPORT Nº: **232943PN012A** DATE: **20-03-2023** PAGE: **1/2**

PETITIONER: **Kymen Granite Oy**

Myllykallionkuja 41, 45100 Kouvola. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery	**03-01-2023**
Description	**10 slabs of nominal dimensions 200x200x30 mm**
Commercial name *	**Kymen Red**
Petrographic definition *	**–**
Place of quarrying *	**Haapala Kouvola**
Supplier *	**Kymen Granite Oy**
Sampled by *	**Kari Rahkonen (15-11-2022)**
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±5ºC to constant mass**
Load direction	**–**
Place of testing	**Centro Tecnológico del Mármol**
Dates of testing	**08-03-2023 / 14-03-2023**

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Asociación Empresarial de Investigación Centro Tecnológico del Mármol, la Piedra y Materiales
Ctra. de Murcia s/n. 30430 Cehegín, Murcia, Spain
Tel.: +34 968 741 500
http://www.ctmarmol.es/
email: laboratorio@ctmarmol.es

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TEST REPORT

Natural stone – Breaking load at dowel hole

REPORT Nº: **232943PN012A** DATE: **20-03-2023**

RESULTS:

Specimen	59	60	61	62	63	64	65	66	67	68
Thickness, d (mm)	30	30	30	30	30	30	30	30	30	30
Breaking thickness, d_1 (mm)	10,4	10,6	11,2	10,6	9,7	11,7	10,8	10,4	11,0	10,6
Breaking load, F (N)	1800	2200	1750	2250	1800	2850	2150	2000	2850	2350
Maximum fracture length, b_A (mm)	50,1	56,8	42,2	45,6	42,2	60,1	46,6	36,3	52,9	51,4

Mean value of breaking load, $\bar{F}$	**2200 N**
Standard deviation, s	**400 N**
Lower expected value, E	**1499 N**
Mean value of breaking thickness, $\bar{d}_1$	**10,7 mm**
Mean value of maximum fracture lengths, $\bar{b}_A$	**48,4 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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TEST REPORT

Natural stone – Slip resistance

REPORT Nº: **232943PN020A** DATE: **20-03-2023** PAGE: **1/2**

PETITIONER: **Kymen Granite Oy**
Myllykallionkuja 41, 45100 Kouvola. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery	**03-01-2023**
Description	**3 slabs of 300x300x30 mm**
Surface finish *	**Sawn**
Commercial name *	**Kymen Red**
Petrographic definition *	**–**
Place of quarrying *	**Haapala Kouvola**
Supplier *	**Kymen Granite Oy**
Sampled by *	**Kari Rahkonen (15-11-2022)**

* 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	**10-03-2023 / 13-03-2023**

ilac-MRA ENAC ENSAYO ISO 17025 Nº373 / LE817

Asociación Empresarial de Investigación Centro Tecnológico del Mármol, la Piedra y Materiales
Ctra. de Murcia s/n. 30430 Cehegín, Murcia, Spain
Tel.: +34 968 741 500
http://www.ctmarmol.es/
email: laboratorio@ctmarmol.es

Centro Tecnológico del mármol

TEST REPORT

Natural stone – Slip resistance

REPORT Nº: **232943PN020A** DATE: **20-03-2023**

RESULTS:

Specimen	69.1	69.2	70.3	70.4	71.5	71.6
Individual values of the slip resistance, in dry condition	97	96	96	95	96	93
Individual values of the slip resistance, in wet condition	62	66	66	67	66	69

Average slip resistance, in dry condition (SRV “dry”)	**95**	Uncertainty	**± 2**
Average slip resistance, in wet condition (SRV “wet”)	**66**	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%

Digitally signed by

Antonio Molina
Director Técnico

Centro Tecnológico del mármol

TEST REPORT

Slip resistance (slipperiness)

REPORT Nº: **232943PN020J** DATE: **20-03-2023** PAGE: **1/2**

PETITIONER: **Kymen Granite Oy**
Myllykallionkuja 41, 45100 Kouvola. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery	**03-01-2023**
Description	**1 natural stone slab of 300x300x30 mm**
Surface finish *	**Sawn**
Commercial name *	**Kymen Red**
Petrographic definition *	**–**
Place of quarrying *	**Haapala Kouvola**
Supplier *	**Kymen Granite Oy**
Sampled by *	**Kari Rahkonen (15-11-2022)**

* 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	**10-03-2023 / 13-03-2023**

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TEST REPORT

Slip resistance (slipperiness)

REPORT Nº: **232943PN020J** DATE: **20-03-2023** PAGE: **2/2**

RESULTS*:*

Test conditions	Dry	Wet
Slipperiness measured towards 0°	**97**	**63**
Slipperiness measured towards 90°	**97**	**66**
Slipperiness measured towards 45°	**95**	**67**
Value of the slipperiness, *PTV*	**95**	**63**
Uncertainty	**± 1**	**± 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%

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TEST REPORT

Natural stone – Petrographic examination

REPORT Nº: **232977PN001** DATE: **20-03-2023** PAGE: **1/3**

PETITIONER: **Kymen Granite Oy**
Myllykallionkuja 41, 45100 Kouvola. (Finland)

SAMPLE IDENTIFICATION:

Date of delivery	**03-01-2023**
Description	**1 slab of 300x300x30 mm with sawn surface finish**
Commercial name *	**Kymen Red**
Place of quarrying *	**Haapala Kouvola**
Supplier *	**Kymen Granite Oy**
Sampled by *	**Kari Rahkonen (15-11-2022)**

* Information declared by the petitioner

TEST METHOD: **EN 12407:2019 Natural stone test methods. Petrographic examination**

Deviations	**–**
Thin sections	**1 non-oriented thin section of 28x48 mm, stained with sodium cobaltonitrite**
Place of testing	**Centro Tecnológico del Mármol**
Dates of testing	**16-03-2023**

ilac-MRA ENAC ENSAYO ISO 17025 Nº373 / LE817

Asociación Empresarial de Investigación Centro Tecnológico del Mármol, la Piedra y Materiales
Ctra. de Murcia s/n. 30430 Cehegín (Murcia) España
Tel.: +34 968 741 500
http://www.ctmarmol.es/
email: laboratorio@ctmarmol.es

Centro Tecnológico del mármol

TEST REPORT

Natural stone – Petrographic examination

REPORT Nº: **232977PN001** DATE: **20-03-2023**

RESULTS:

Macroscopic description	**The sample shows dark reddish grey colour (Munsell 3,3YR 3,5/1,3), coarse grain size and granular fabric with rounded K-feldspar megacrysts (rapakivi).**
Microscopic description	**Plutonic rock, holocrystalline allotriomorphic inequigranular texture composed of:** **– K-feldspar ≈30-40% of grain size 0,2-20 mm, anhedral, poikilitic, perthitic.** **– Quartz ≈30-40%, of grain size 0,1-10 mm, anhedral, as matrix of megacrysts and as drop-shaped inclusions in K-feldspar.** **– Plagioclase ≈10-20%, of size 0,2-2 mm, anhedral-subhedral, sometimes as a rim around K-feldspar megacrysts.** **– Accessories : biotite, opaque mineral, amphibole, zircon.** **Absence of pores or cracks.**
Petrographic definition	**Syenogranite [1] / Granite [1]**

(1) Definition according to
Gillespie, M R, y Styles M T. 1999: BGS Rock Classification Scheme Volume 1. Classification of igneous rocks. British Geological Survey Research Report (2nd edition). RR 99-06.

Remarks: The Munsell color designation on a macroscopic scale is included as guidance and qualitative only

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TEST REPORT

Natural stone – Petrographic examination

REPORT Nº: **232977PN001** DATE: **20-03-2023** PAGE: **3/3**

Microphotograph of slide 232977-01: A) parallel polarizers; B) crossed polarizers