



**Technical Characteristic KAI/KOS  
FISA TEHNICA**

ODU  
16.07.05(7/0)

**Model Marmi  
Internal code: 9518  
Type Porcelain Tiles GL  
Group BIa, Nominal size 600x600 mm**

Characteristics/Caracteristici Group BIa, Annex G	Tolerance EN 14411:2016, %	Tolerance EN14411:2016, mm	Request values/Valori conform standard	Measured in KAI laboratory/Masuratori in laborator Kai	Testing method/Metoda de lucru
1. Length/width/Lungime/ Latime, mm	±0.6/max±2mm	±2.00	600 x 600	1K 597.6x597.6	EN ISO 10545-2
				2K 598.8x598.8	
				3K 600.0x600.0	
				4K 601.2x601.2	
				5K 602.4x602.4	
2. Thickness/Grosimea, mm	±5/max±0.5mm	±0.50	9.0 ± 0.45 mm	8.8 - 9.1 mm	EN ISO 10545-2
3. Straightness of sides/Liniaritatea muchiei,mm	±0.5/max±1.5mm	±1.50	±1.20 mm	-0.17 – +0.22 mm	EN ISO 10545-2
4. Rectangularity/Rectang ularitate, mm	±0.5/max±2mm	±2.00	±1.10 mm	-0.15 – +0.42 mm	EN ISO 10545-2
5. Centre curvature/Curbura centrala, mm	±0.5/max±2mm	±2.00	±1.50 mm	+0.11 – +0.26 mm	EN ISO 10545-2
6. Edge curvature/Curbura laterala, mm	±0.5/max±2mm	±2.00	±1.20 mm	+0.06 – +0.23 mm	EN ISO 10545-2
7. Warpage/Deformarea, mm	±0.5/max±2mm	±2.00	±1.50 mm	-0.12 – +0.24 mm	EN ISO 10545-2
8. Surface quality/Calitatea suprafetei	≥95% without defects	≥95% without defects	≥98% without defects	Pass	EN ISO 10545-2
9. Water absorption/Absorbția de apa, %	≤0,5% Individual ≤0,6%	≤0,5% Individual ≤0,6%	≤0,5%	0.01 – 0.03 %	EN ISO 10545-3
10. Modulus of rupture/rezistența mecanică, N/mm <sup>2</sup>	≥35N/mm <sup>2</sup> individual≥32N/mm <sup>2</sup>	≥35N/mm <sup>2</sup> individual≥32N/mm <sup>2</sup>	≥35N/mm <sup>2</sup>	Average: 59 N/mm <sup>2</sup>	EN ISO 10545-4
11. Breaking strength/Forta de rupere, N	≥1300	≥1300	≥1300	Average: 2307 N	EN ISO 10545-4
12. Determination of surface abrasion for glazed tiles/Rezistența la abraziune	the class of abrasive resistance and the number of cycles are declared by producer	the class of abrasive resistance and the number of cycles are declared by producer	Declared value	4/ 2100	EN ISO 10545-7

13. Crazing resistance, glazed tiles/Rezistenta la crapaturi pentru placi glazurate	Pass according to EN ISO 10545-1	Pass according to EN ISO 10545-1	Pass according to EN ISO 10545-1	Resistant	EN ISO 10545-11
14. Resistance for household chemicals and swimming pool salts/Rezistenta la solutiile de uz casnic si saruriel de piscina	Min class B	Min class B	Min class B	GA	EN ISO 10545-13
15. Resistance to the low concentration acids and alkalis/Rezistenta la acizi si baze de concentratie slaba	Declared value	Declared value	Declared value	GLA	EN ISO 10545-13
16. Resistance to the high concentration acids and alkalis/Rezistenta la acizi si baze de concentratie mare	Declared value	Declared value	Declared value	GHA	EN ISO 10545-13
17. Stain resistance/Rezistenta la patare	Min class 3	Min class 3	Min class 5	class 5	EN ISO 10545-14
18. Frost resistance/Rezistenta la inghet	Pass according to EN ISO 10545-1	Pass according to EN ISO 10545-1	Pass according to EN ISO 10545-1	Resistant	EN ISO 10545-12
19. Slipperiness/Rezistent a la alunecare	Declared value	Declared value	Declared value	PTV 36+ Dry PTV 25-35 Wet	BS 7976
20. MOHS/Rezistenta la zgariere	Declared value	Declared value	Declared value	8	EN 101:1991

Date: 26.11.2020





**Technical Characteristic KAI/KOS  
FISA TEHNICA**

ODU  
16.07.05(7/0)

**Model Marmi  
Internal code: 9519  
Type Porcelain Tiles GL  
Group BIa, Nominal size 300x600 mm**

Characteristics/Caracteristici Group BIa, Annex G	Tolerance EN 14411:2016, %	Tolerance EN14411:2016, mm	Request values/Valori conform standard	Measured in KAI laboratory/Masuratori in laborator Kai	Testing method/Metoda de lucru										
1. Length/width Lungime/Latime, mm	$\pm 0.6/\max \pm 2\text{mm}$	$\pm 1.80/\pm 2.00$	300 x 600	<table border="1"> <tr><td>1K</td><td>297,6x597,6</td></tr> <tr><td>2K</td><td>298,8x598,6</td></tr> <tr><td>3K</td><td>300,0x600,0</td></tr> <tr><td>4K</td><td>301,2x601,2</td></tr> <tr><td>5K</td><td>302,4x602,4</td></tr> </table>	1K	297,6x597,6	2K	298,8x598,6	3K	300,0x600,0	4K	301,2x601,2	5K	302,4x602,4	EN ISO 10545-2
1K	297,6x597,6														
2K	298,8x598,6														
3K	300,0x600,0														
4K	301,2x601,2														
5K	302,4x602,4														
2. Thickness Grosimea, mm	$\pm 5/\max \pm 0.5\text{mm}$	$\pm 0.40$	$9.0 \pm 0.45$ mm	8.9 – 9.1 mm	EN ISO 10545-2										
3. Straightness of sides Liniaritatea muchiei, mm	$\pm 0.5/\max \pm 1.5\text{mm}$	$\pm 1.50/\pm 1.50$	$\pm 1.40/\pm 1.40$	-0.06 – +0.35mm	EN ISO 10545-2										
4. Rectangularity Rectangularitate, mm	$\pm 0.5/\max \pm 2\text{mm}$	$\pm 1.50/\pm 2.00$	$\pm 1.40/\pm 1.80$	-0.14 – +0.51 mm	EN ISO 10545-2										
5. Centre curvature Curbura centrala, mm	$\pm 0.5/\max \pm 2\text{mm}$	$\pm 2.0$	$\pm 1.50$	+0.23 – +0.89 mm	EN ISO 10545-2										
6. Edge curvature Curbura laterala, mm	$\pm 0.5/\max \pm 2\text{mm}$	$\pm 1.50/\pm 2.00$	$\pm 1.40/\pm 1.80$	+0.08 – +0.77 mm	EN ISO 10545-2										
7. Warpage Deformarea, mm	$\pm 0.5/\max \pm 2\text{mm}$	$\pm 2.00$	$\pm 1.50$	-0.21 – +0.52 mm	EN ISO 10545-2										
8. Surface quality Calitatea suprafetei	$\geq 95\%$ without defects	$\geq 95\%$ without defects	$\geq 98\%$ without defects	Pass	EN ISO 10545-2										
9. Water absorption Absorbția de apa, %	$\leq 0,5\%$ Individual $\leq 0,6\%$	$\leq 0,5\%$ Individual $\leq 0,6\%$	$\leq 0,5\%$	0.11 – 0.25 %	EN ISO 10545-3										
10. Modulus of rupture Rezistența mecanică, N/mm <sup>2</sup>	$\geq 35\text{N/mm}^2$ individual $\geq 32\text{N/mm}^2$	$\geq 35\text{N/mm}^2$ individual $\geq 32\text{N/mm}^2$	$\geq 35\text{N/mm}^2$	Average: 60 N/mm <sup>2</sup>	EN ISO 10545-4										
11. Breaking strength Forța de rupere, N	$\geq 1300\text{N}$	$\geq 1300\text{N}$	$\geq 1300\text{N}$	Average: 2241 N	EN ISO 10545-4										
12. Determination of surface abrasion for glazed tiles/Rezistența la abraziune	the class of abrasive resistance and the number of cycles are declared by producer	the class of abrasive resistance and the number of cycles are declared by producer	Declared value	4/ 2100	EN ISO 10545-7										
13. Craze resistance, glazed tiles/Rezistența la crapături pentru plăci glazurate	Pass according to EN ISO 10545-1	Pass according to EN ISO 10545-1	Pass according to EN ISO 10545-1	Resistant	EN ISO 10545-11										
14. Resistance for household chemicals and swimming pool salts/Rezistența la	Min class B	Min class B	Min class B	GA	EN ISO 10545-13										

solutiile de uz casnic si saruriel de piscina					
15. Resistance to the low concentration acids and alkalis/Rezistenta la acizi si baze de concentratie slaba	Declared value	Declared value	Declared value	GLA	EN ISO 10545-13
16. Resistance to the high concentration acids and alkalis/ Rezistenta la acizi si baze de concentratie mare	Declared value	Declared value	Declared value	GHA	EN ISO 10545-13
17. Stain resistance Rezistenta la patare	Min class 3	Min class 3	Min class 3	class 5	EN ISO 10545-14
18. Frost resistance Rezistenta la inghet	Pass according to EN ISO 10545-1	Pass according to EN ISO 10545-1	Pass according to EN ISO 10545-1	Resistant	EN ISO 10545-12
19. Slipperiness	Declared value	Declared value	Declared value	PTV 36+ Dry PTV 25-35 Wet	BS 7976
20. MOHS Rezistenta la zgariere	Declared value	Declared value	Declared value	8	EN 101:1991

Date: 26.11.2020

