

**GROUP CERAMICA CLEOPATRA**

Ceramica Cleopatra Group - Ceramica Eldorado

Ceramica Fancy – Galleria Cleopatra

**QUALITY CONTROL MANAGEMENT****Ceramic Wall Tiles**

## ***FINAL PRODUCT SPECIFICATIONS CERTIFICATE***

IN REFERENCE TO C.C'S IMPLEMENTATION THE INTERNATIONAL STANDARD; CONTROL SYSTEM TO ASSURE THE QUALITY OF OUR PRODUCTS, THE TESTS AND INSPECTIONS PERFORMED ON THE CERAMIC (WALL TILES Spacer) IN ACCORDANCE TO PRACTICAL EXECUTION METHODS CONFORMS TO EUROPEAN STANDARDS; (EN14411 GROUP BIII) COMPLIES WITH ISO STANDARD 13006 GROUP (BIII) ..... **Annex L**, AND THE RESULTS ARE:

S. No.	Test item	Cleopatra central lab.	Required by standard EN 14411 BIII	Required by ISO standard 13006 BIII	Test Standard
1	<b>Dimensions:</b>				
	1-1 Length and width	± 0.25 %	± 0.5 % / Max ± 2.0 mm		ISO 10545-2
	1-2 Thickness	± 5 %	± 10 %	± 10 %	ISO 10545-2
	1-3 Straightness of sides	± 0.15 %	± 0.3 % ± 1.5 mm	± 0.3 % ± 1.5 mm	ISO 10545-2
	1-4 Rectangularity	± 0.15 %	± 0.5 %	± 0.5 %	ISO 10545-2
	1-5 Surface flatness				
	a) Center curvature	+0.8 / -0.5 mm	+0.2 mm / -1.5 mm		ISO 10545-2
	b) Edge curvature	+0.8 / -0.5 mm	+0.2 mm / -1.5 mm		ISO 10545-2
	c) Warpage	± 0.1 %	± 0.5 %		ISO 10545-2
2	Water absorption %	13 %	E >10%	E >10%	ISO 10545-3
3	Modulus of rupture N/mm <sup>2</sup>	20 N/ mm <sup>2</sup>	Min 15 for thickness ≤ 7.5 mm Min 12 for thickness > 7.5 mm	Min 15 for thickness ≤ 7.5mm Min 12 for thickness > 7.5mm	ISO 10545-4
	Breaking strength in N	650 N	≥ 600 for thickness ≥ 7.5 mm ≥ 200 for thickness < 7.5 mm	≥ 600 for thickness ≥ 7.5mm ≥ 200 for thickness < 7.5mm	
4	Thermal shock resistance	Pass	Available	Available	ISO 10545-9
5	Crazing resistance	Pass	Required	Required	ISO 10545-11
6	Resistance to chemicals	Class A	Available	Available	ISO 10545-13
7	Resistance to staining	Class 5	Min class 3	Min class 3	ISO 10545-14
8	Thermal expansion coefficient	Pass	Available	Available	ISO 10545-8
9	Moisture Expansion	Pass	Available	Available	ISO 10545-10
10	Frost Resistance	Pass	Available	Available	ISO 10545-12
11	Small color differences	No change	Available	Available	ISO 10545-16
12	Lead and cadmium Release	Pass	Available	Available	ISO 10545-15
13	Surface quality (Min tiles shall be free from visible defects)	97%	Min 95%	Min 95%	ISO 10545-2

Quality Control Manager

Signature:



Top Management

Signature: