

**GROUP CERAMICA CLEOPATRA**

Ceramica Cleopatra Group - Ceramica Eldorado

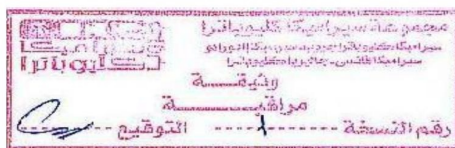
Ceramica Fancy – Galleria Cleopatra

**QUALITY CONTROL MANAGEMENT****Porcelain 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 (GRANITE - PORCELLAIN) IN ACCORDANCE TO PRACTICAL EXECUTION METHODS CONFORMS TO EUROPEAN STANDARDS; (EN14411 GROUP BIa) COMPLIES WITH ISO STANDARD 13006 GROUP (BIa) , Annex G AND THE RESULTS ARE :

S. No.	Test item	Cleopatra central lab.	Required by standard EN 14411 BIa	Required by ISO standard 13006 BIa	Test Standard No.
1	<b>Dimensions:</b>				
	1-1 Length and width	± 0.2 %	± 0.6 %	± 0.6 %	ISO 10545-2
	1-2 Thickness	± 4 %	± 5 %	± 5 %	ISO 10545-2
	1-3 Straightness of sides	± 0.15 %	± 0.5 %	± 0.5 %	ISO 10545-2
	1-4 Rectangularity	± 0.15 %	± 0.6 %	± 0.6 %	ISO 10545-2
	1-5 Surface flatness				
	a) Center curvature	± 0.15 %	± 0.5 %	± 0.5 %	ISO 10545-2
	b) Edge curvature	± 0.15 %	± 0.5 %	± 0.5 %	ISO 10545-2
	c) Warpage	± 0.15 %	± 0.5 %	± 0.5 %	ISO 10545-2
2	Water absorption %	Avg. 0.04 %	0 ≤ E ≤ 0.5%	0 ≤ E ≤ 0.5%	ISO 10545-3
3	Modulus of rupture N/mm <sup>2</sup>	≥ 45	35 Min / Individual 32	35 Min / Individual 32	ISO 10545-4
4	Scratch hardness (MOH's scale)	6	6	-	EN 101
5	Surface abrasion	class 4	As Class	As Class	ISO 10545-7
6	Thermal shock resistance	Pass	Available	Available	ISO 10545-9
7	Crazing resistance	Pass	Required	Required	ISO 10545-11
8	Resistance to chemicals	class A	Min class B	Min class B	ISO 10545-13
9	Resistance to staining	class 4	Min class 3	Min class 3	ISO 10545-14
10	Thermal expansion coefficient	Pass	Available	Available	ISO 10545-8
11	Moisture Expansion	Pass	Available	Available	ISO 10545-10
12	Frost Resistance	Pass	Required	Required	ISO 10545-12
13	Lead Cadmium Release	Pass	Available	Available	ISO 10545-15
14	Small Color Differences	Pass	Available	Available	ISO 10545-16
15	Skid Resistance	Dry	Min 60 BPN	-	-
		* Wet	Min 20 BPN	-	-
17	Surface quality  (Min tiles shall be free from visible defects)	97%	95%	95%	ISO 10545-2

**Quality Control Manager****Signature:****Top Management****Signature:**