

GROUP CERAMICA CLEOPATRA

Ceramica Cleopatra Group - Ceramica Eldorado

Ceramica Fancy – Galleria Cleopatra



QUALITY CONTROL MANAGEMENT

Ceramic Floor 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 (FLOOR TILES) IN ACCORDANCE TO PRACTICAL EXECUTION METHODS CONFORMS TO EUROPEAN STANDARDS; (EN14411 GROUP BIIa) COMPLIES WITH ISO STANDARD 13006 GROUP (BIIa)

.....**Annex J**, complies with ANSI 137.1, AND THE RESULTS ARE:

S. No.	Test item	<i>Cleopatra central lab.</i>	Required by standard EN 14411 BIIb	Required by ISO standard 13006 BIIb	Test Standard
1	Dimensions:				
	1-1 Length and width				
	1-1-1 $S \leq 400 \text{ Cm}^2$	± 0.3 %	± 0.75 %	± 0.75 %	ISO 10545-2
	1-1-2 $S > 400 \text{ Cm}^2$	± 0.2 %	± 0.6 %	± 0.6 %	
	1-2 Thickness	± 4 %	± 5 %	± 5 %	ISO 10545-2
	1-3 Straightness of sides	± 0.2 %	± 0.6 %	± 0.6 %	ISO 10545-2
	1-4 Rectangularity	± 0.15 %	± 0.6 %	± 0.6 %	ISO 10545-2
	1-5 Surface flatness				
	a) Center curvature	± 0.3 %	± 0.5 %	± 0.5 %	ISO 10545-2
	b) Edge curvature	± 0.2 %	± 0.5 %	± 0.5 %	ISO 10545-2
c) Warpage	± 0.15 %	± 0.5 %	± 0.5 %	ISO 10545-2	
2	Water absorption %	Average 3.5 %	3 < E ≤ 6 %	3 < E ≤ 6 %	ISO 10545-3
3	Modulus of rupture N/mm^2	Min 30	Min 20 / Individual 22	Min 20 / Individual 22	ISO 10545-4
	Breaking strength in N	Min. 1500	Min. 1000	Min. 1000	
4	Scratch hardness (MOH's scale)	6.5 – 8	5	5	EN 101
5	Surface abrasion (Glazed Tiles)	Min 2500	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	Available	Available	ISO 10545-13
9	Resistance to staining	Class 3	Available	Available	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	Small colour differences	No change	Available	Available	ISO 10545-16
14	Lead and cadmium Release	Pass	Available	Available	ISO 10545-15
15	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: