



Características Técnicas / Technical Features

# ETIOPIA ASH | SAND

Madera Porcelánica Esmaltada

	Kind Of Test	Test Method	Requirements	Result
5	Surface Quality	ISO 10545-2:2018	Minimum 95% of tile are to be free from visible defects which impair the appearance of major area of tiles.	100%
6	Resistance to Surface Abrasion b) Resistance to surface abrasion of glazed tiles	ISO 10545-7:2007	Report abrasion class and cycles passed	Class - IV 2100 Revolution pass
7	Coefficient of Linear Thermal Expansion from ambient temperature to 100°C	ISO 10545-8:2016	9X10 <sup>-6</sup> Max	3.87x10 <sup>-6</sup>
8	Thermal Shock Resistance	ISO 10545-9:2016	Test method available	Fully resistance
9	Crazing Resistance	ISO 10545-11:2007	Two cycle must pass Test method available	Fully resistance
10	Frost resistance	ISO 10545-12:2007	Required	N/A
11	Determination of Slip Resistance/Coefficient of Friction	CEN/TS 16165:2016	Manufacturer have to declared	Avg. Dry PTV 58.8 Avg. Wet PTV 32.8
12	Moisture Expansion mm/m	ISO 10545-10:2006	Test method available	0.004 mm/m
13	Small colour differences	ISO 10545-16:2014	Plain coloured tiles only where required GL: Δ < 0.75	N/A
14	Impact Resistance Coefficient of restitution (COR)	ISO 10545-5:2006	Test method available	0.83
15	Bulk Density , in ( g/cc )	ISO 10545-3:2018	2.2 min	2.2967 g/cc

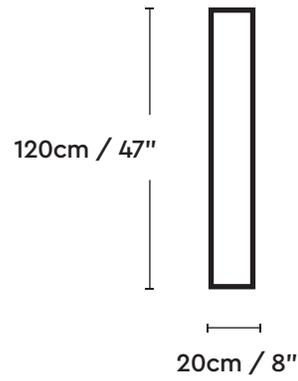
<b>16</b>	<b>Resistance to staining</b>			
	Green stain in light oil	ISO 10545-14:2016	Min Class - 3	Class 5
	Red stain in light oil		Min Class - 3	Class 5
	Iodine , 13g/L in alcohol		Min Class - 3	Class 4
	Olive oil		Min Class - 3	Class 5
<b>17</b>	<b>Resistance to Low Concentration of Acid &amp; Alkali</b>			
a	Hydrochloric Acid solution 3% v/v	ISO 10545-13:2018	Manufacturer to state classification	GLA
b	Citric Acid Soln. 100gm/L		Manufacturer to state classification	GLA
c	Potassium Hydroxide Soln. 30gm/l		Manufacturer to state classification	GLA

	Kind Of Test	Test Method	Requirements	Result
<b>18</b>	<b>Resistance to High Concentration of Acid &amp; Alkali</b>			
a	Hydrochloric Acid solution 18% v/v	ISO 10545-13:2018	Test method available	GHA
b	Lactic acid 5% v/v		Test method available	GHA
c	Potassium Hydroxide Soln. 100gm/l		Test method available	GHB
<b>19</b>	House hold chemical resistance Ammonium chloride solution 100gm/L	ISO 10545-13:2018	Minimum Class B	GA
<b>20</b>	Swimming pool salt : Sodium Hypochlorite solution 20mg/L		Minimum Class B	GA
<b>21</b>	<b>Lead And Cadmium Releas</b>			
a	Lead release, in mg/dm <sup>2</sup>	ISO 10545-15:2006	Test method available	0.019mg/dm <sup>2</sup>
b	Cadmium release , in mg/dm <sup>2</sup>	ISO 10545-15:2006	Test method available	0.012mg/dm <sup>2</sup>

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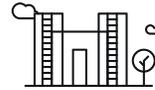
## FORMATO



No. CARAS



RECTIFICADO



RESIDENCIAL



MATE



INTERIOR



EXTERIOR



PISO



MURO

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