

## TECHNICAL SHEET PSO EXR LAJA NEW GRIS 45X45 EXT 2.03

EVALUATED CHARACTERISTICS	TEST METHOD	NORM ISO 13006 REQUIREMENTS (BIIb)	RESULT	CONCLUSION			
DIMENSIONS AND SURFACE QUALITY							
* Length and Width, mm			(%) (mm)				
Manufacturing Size: 451.0 mm  Average Size: 451.6 mm  * Thickness, mm	ISO 10545-2	± 0.6%; ± 2.0mm	0.13 0.60	Comply			
Manufacturing: 7.5 mm  Average result: 7.7 mm	ISO 10545-2	± 5.0%; ± 0.5mm	2.67 0.20	Comply			
* Straightness of sides, %	ISO 10545-2	± 0.5%; ± 1.5mm	0.07 0.30	Comply			
* Rectangularity, %  * Surface flatness	ISO 10545-2	± 0.5%; ± 2.0mm	0.11 0.50	Comply			
Edge curvature, %		± 0.5%; ± 2.0mm	0.11 0.00 0.50 0.00	Comply			
Centre curvature, %	ISO 10545-2	± 0.5%; ± 2.0mm	0.17 0.00 1.10 0.00	Comply			
Warpage, %	ISO 10545-2	± 0.5%; ± 2.0mm	0.15 -0.06 0.87 -0.40	Comply			
* Surface quality, %	ISO 10545-2	A minimum of 95 % of the tiles are to be free from visible defects which can impair the appearance of a major area of tiles	97.1%	Comply			
	PHYS	SICAL PROPERTIES					
	I						
* Water absorption (E <sub>v</sub> ), %	ISO 10545-3	$6 \% < E_v \le 10 \%$ Individual maximum 11 %	7.0 7.1	Comply Comply			
* Breaking strength, N (Thickness ≥ 7.5 mm)	ISO 10545-4	Not less than 800	1016	Comply			
* Modulus of rupture, N/mm <sup>2</sup>	ISO 10545-4	Minimum 18	30	Comply			
* Abrasion resistance - CU	ISO 10545-7	Individual minimum 16 Report abrasion class and cycles passed	27 Class 3 Cycles 1500	Comply -			
* Crazing resistance	ISO 10545-11	Required	No crazing	Comply			
CHEMICAL PROPERTIES							
* Posistance to staining							
* Resistance to staining - Green Oxide	ISO 10545-14	Minimum class 3	Class 5	Comply			
- Iodo	ISO 10545-14	Minimum class 3	Class 5	Comply			
- Olive oil	ISO 10545-14	Minimum class 3	Class 5	Comply			
* Resistance to low concentrations of acids and alkalis	100 10040 14	Will ill fall Class 5	Glado 0	Обтру			
<ul><li>3% Hydrochloric Acid (V / V)</li><li>Potassium hydroxide, 30 g / I</li></ul>		Manufacturer is to state classification	LB LA	- -			
* Resistance to high concentrations of acids and alkalis	ISO 10545-13		UD				
<ul> <li>18% Hydrochloric Acid (V / V)</li> <li>Potassium hydroxide, 100 g / I</li> <li>* Resistance to household chemicals and swimming pool salts</li> </ul>		Test method available	HB HA	-			
Ammonium Chloride 100 g / I     Sodium hypochlorite, 20 mg / I	ISO 10545-13	Minimum B	A A	Comply Comply			

Requirements verified as indicated in the INTERNATIONAL STANDARD, ISO 13006

Dry-pressed ceramic tiles 6 % <  $E_v \le 10$  % Group  $BII_b$ 

The weight, tone and dimensions are subject to some of the inevitable variations typical of ceramic firing processes.

DATE OF ISSUE	Thursday, July 21, 2022	
Prepared by: Quality Supervisor	Reviewed by: Manager Quality Assurance	
César Prado R.	Marlene Chauca R.	

<sup>&</sup>quot;Ceramic Tiles - Definitions, Classification, Characteristics and marking", Annex k (normative), Table k,1.



## TECHNICAL SHEET PSO EXR LAJA NEW BEIGE 45X45 EXT 2.03

		NORM ISO 13006				
EVALUATED CHARACTERISTICS	TEST	REQUIREMENTS	RESULT	CONCLUSION		
	METHOD	(ВПЬ)				
DIMENSIONS AND SURFACE QUALITY						
* Length and Width, mm			(%) (mm)			
Manufacturing Size: 451.0 mm			(76)			
Average Size: 452.2 mm	ISO 10545-2	± 0.6%; ± 2.0mm	0.27 1.20	Comply		
* Thickness, mm						
Manufacturing: 7.5 mm						
Average result: 7.7 mm	ISO 10545-2	± 5.0%; ± 0.5mm	2.67 0.20	Comply		
* Straightness of sides, %	ISO 10545-2	± 0.5%; ± 1.5mm	0.09 0.40	Comply		
* Rectangularity, %	ISO 10545-2	± 0.5%; ± 2.0mm	0.18 0.80	Comply		
* Surface flatness		,		. ,		
Edge curvature, %		± 0.5%; ± 2.0mm	0.18 0.00 0.80 0.00	Comply		
Centre curvature, %	ISO 10545-2	± 0.5%; ± 2.0mm	0.22 0.00 1.40 0.00	Comply		
Warpage, %	ISO 10545-2	± 0.5%; ± 2.0mm	0.14 -0.03 0.90 -0.20	Comply		
		A minimum of 95 % of the tiles are				
		to be free from visible defects which				
* Surface quality, %	ISO 10545-2	can impair the appearance of a	98.5%	Comply		
		major area of tiles				
	DIII	NOAL PROPERTIES				
	PHY	SICAL PROPERTIES				
* Water absorption (E <sub>v</sub> ), %	ISO 10545-3	6 % < E <sub>v</sub> ≤ 10 %	7.2	Comply		
		Individual maximum 11 %	7.7	Comply		
* Breaking strength, N	ISO 10545-4	Not less than 800	998	Comply		
(Thickness ≥ 7.5 mm)	100 40545 4	Minimum 40	20			
* Modulus of rupture, N/mm <sup>2</sup>	ISO 10545-4	Minimum 18 Individual minimum 16	29 26	Comply Comply		
* Abrasion resistance - CU	ISO 10545-7	Report abrasion class and cycles	Class 4	Comply		
Abrasion resistance of	100 100 10 1	passed	Cycles 2100	=		
* Crazing resistance	ISO 10545-11	Required	No crazing	Comply		
Orazing resistance		·	110 ordzing	Оотгрту		
CHEMICAL PROPERTIES						
* Resistance to staining						
- Green Oxide	ISO 10545-14	Minimum class 3	Class 5	Comply		
- lodo	ISO 10545-14	Minimum class 3	Class 5	Comply		
- Olive oil	ISO 10545-14	Minimum class 3	Class 5	Comply		
* Resistance to low concentrations of acids						
and alkalis						
- 3% Hydrochloric Acid (V / V)		Manufacturer is to state	LA	-		
<ul> <li>Potassium hydroxide, 30 g / I</li> </ul>		classification	LA	-		
* Resistance to high concentrations of acids	ISO 10545-13					
and alkalis						
<ul> <li>18% Hydrochloric Acid (V / V)</li> </ul>		Test method available	HA	-		
<ul> <li>Potassium hydroxide, 100 g / I</li> </ul>		100t monod available	HA	-		
* Resistance to household chemicals and						
swimming pool salts						
- Ammonium Chloride 100 g / I	ISO 10545-13	Minimum B	А	Comply		
<ul> <li>Sodium hypochlorite, 20 mg / I</li> </ul>	1 .55 155 15	William B	Α	Comply		

Requirements verified as indicated in the INTERNATIONAL STANDARD, ISO 13006

The weight, tone and dimensions are subject to some of the inevitable variations typical of ceramic firing processes.

DATE OF ISSUE	Wednesday, December 01, 2021	
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Dry-pressed ceramic tiles 6 % <  $E_v \le 10$  % Group  $BII_b$