

<b>TECHNICAL SHEET</b>
<b>PSO RLSO TEIDE BEIGE 45X45 EXT 2.03</b>

EVALUATED CHARACTERISTICS	TEST METHOD	NORM ISO 13006 REQUIREMENTS (BIIB)	RESULT	CONCLUSION
<b>DIMENSIONS AND SURFACE QUALITY</b>				
* Length and Width, mm Manufacturing Size: 451.0 mm Average Size: 451.7 mm	ISO 10545-2	± 0.6%; ± 2.0mm	(%)      (mm) 0.16      0.70	Comply
* Thickness, mm Manufacturing: 7.5 mm Average result: 7.8 mm	ISO 10545-2	± 5.0%; ± 0.5mm	4.00      0.30	Comply
* Straightness of sides, %	ISO 10545-2	± 0.5%; ± 1.5mm	0.07      0.30	Comply
* Rectangularity, %	ISO 10545-2	± 0.5%; ± 2.0mm	0.13      0.60	Comply
* Surface flatness Edge curvature, % Centre curvature, % Warpage, %	ISO 10545-2 ISO 10545-2 ISO 10545-2	± 0.5%; ± 2.0mm ± 0.5%; ± 2.0mm ± 0.5%; ± 2.0mm	0.18   0.00   0.80   0.00 0.17   0.00   1.10   0.00 0.13   0.00   0.80   0.00	Comply Comply 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	96.5%	Comply
<b>PHYSICAL PROPERTIES</b>				
* Water absorption (E <sub>v</sub> ), %	ISO 10545-3	6 % < E <sub>v</sub> ≤ 10 % Individual maximum 11 %	7.4 7.6	Comply Comply
* Breaking strength, N (Thickness ≥ 7.5 mm)	ISO 10545-4	Not less than 800	957	Comply
* Modulus of rupture, N/mm <sup>2</sup>	ISO 10545-4	Minimum 18 Individual minimum 16	28 27	Comply Comply
* Abrasion resistance - CU	ISO 10545-7	Report abrasion class and cycles passed	Class 3 Cycles 1500	-
* Crazeing resistance	ISO 10545-11	Required	No crazeing	Comply
<b>CHEMICAL PROPERTIES</b>				
* Resistance to staining - Green Oxide - Iodo - Olive oil	ISO 10545-14 ISO 10545-14 ISO 10545-14	Minimum class 3 Minimum class 3 Minimum class 3	Class 5 Class 5 Class 5	Comply Comply Comply
* Resistance to low concentrations of acids and alkalis - 3% Hydrochloric Acid (V / V) - Potassium hydroxide, 30 g / l		Manufacturer is to state classification	LB LA	- -
* Resistance to high concentrations of acids and alkalis - 18% Hydrochloric Acid (V / V) - Potassium hydroxide, 100 g / l	ISO 10545-13	Test method available	HB HA	- -
* Resistance to household chemicals and swimming pool salts - Ammonium Chloride 100 g / l - Sodium hypochlorite, 20 mg / l	ISO 10545-13	Minimum B	A A	Comply Comply
<p>Requirements verified as indicated in the INTERNATIONAL STANDARD, ISO 13006            "Ceramic Tiles - Definitions, Classification, Characteristics and marking", Annex k (normative), Table k.1.            Dry-pressed ceramic tiles 6 % &lt; E<sub>v</sub> ≤ 10 % Group BIIB<sub>6</sub>            The weight, tone and dimensions are subject to some of the inevitable variations typical of ceramic firing processes.</p>				
<b>DATE OF ISSUE</b>			Thursday, September 30, 2021	
<b>Prepared by: Quality Supervisor</b>			<b>Reviewed by: Manager Quality Assurance</b>	
César Prado R.			Marlene Chauca R.	

EVALUATED CHARACTERISTICS	TEST METHOD	NORM ISO 13006 REQUIREMENTS (BIIB)	RESULT	CONCLUSION
<b>DIMENSIONS AND SURFACE QUALITY</b>				
* Length and Width, mm Manufacturing Size: 451.0 mm Average Size: 451.2 mm	ISO 10545-2	± 0.6%; ± 2.0mm	(%) 0.04 (mm) 0.20	Comply
* Thickness, mm Manufacturing: 7.5 mm Average result: 7.6 mm	ISO 10545-2	± 5.0%; ± 0.5mm	1.33 0.10	Comply
* Straightness of sides, %	ISO 10545-2	± 0.5%; ± 1.5mm	-0.09 -0.40	Comply
* Rectangularity, %	ISO 10545-2	± 0.5%; ± 2.0mm	-0.11 -0.50	Comply
* Surface flatness Edge curvature, %		± 0.5%; ± 2.0mm	0.16 0.00 0.70 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	0.09 0.00 0.60 0.00	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
<b>PHYSICAL PROPERTIES</b>				
* Water absorption (E <sub>v</sub> ), %	ISO 10545-3	6 % < E <sub>v</sub> ≤ 10 % Individual maximum 11 %	7.1 7.3	Comply Comply
* Breaking strength, N (Thickness ≥ 7.5 mm)	ISO 10545-4	Not less than 800	1022	Comply
* Modulus of rupture, N/mm <sup>2</sup>	ISO 10545-4	Minimum 18 Individual minimum 16	29 28	Comply Comply
* Abrasion resistance - CU	ISO 10545-7	Report abrasion class and cycles passed	Class 3 Cycles 1500	-
* Crazeing resistance	ISO 10545-11	Required	No crazeing	Comply
<b>CHEMICAL PROPERTIES</b>				
* 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 - 3% Hydrochloric Acid (V / V)		Manufacturer is to state classification	LB	-
- Potassium hydroxide, 30 g / l			LA	-
* Resistance to high concentrations of acids and alkalis - 18% Hydrochloric Acid (V / V)	ISO 10545-13	Test method available	HB	-
- Potassium hydroxide, 100 g / l			HA	-
* Resistance to household chemicals and swimming pool salts - Ammonium Chloride 100 g / l	ISO 10545-13	Minimum B	A	Comply
- Sodium hypochlorite, 20 mg / l			A	Comply
<p>Requirements verified as indicated in the INTERNATIONAL STANDARD, ISO 13006            "Ceramic Tiles - Definitions, Classification, Characteristics and marking", Annex k (normative), Table k.1.            Dry-pressed ceramic tiles 6 % &lt; E<sub>v</sub> ≤ 10 % Group BIIB<sub>6</sub>            The weight, tone and dimensions are subject to some of the inevitable variations typical of ceramic firing processes.</p>				
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EVALUATED CHARACTERISTICS	TEST METHOD	NORM ISO 13006 REQUIREMENTS (BIIB)	RESULT	CONCLUSION
<b>DIMENSIONS AND SURFACE QUALITY</b>				
* Length and Width, mm Manufacturing Size: 451.0 mm Average Size: 451.1 mm	ISO 10545-2	± 0.6%; ± 2.0mm	(%) 0.02 (mm) 0.10	Comply
* Thickness, mm Manufacturing: 7.5 mm Average result: 7.6 mm	ISO 10545-2	± 5.0%; ± 0.5mm	1.33 0.10	Comply
* Straightness of sides, %	ISO 10545-2	± 0.5%; ± 1.5mm	-0.16 -0.70	Comply
* Rectangularity, %	ISO 10545-2	± 0.5%; ± 2.0mm	0.18 0.80	Comply
* Surface flatness Edge curvature, %		± 0.5%; ± 2.0mm	0.16 -0.04 0.70 -0.20	Comply
Centre curvature, %	ISO 10545-2	± 0.5%; ± 2.0mm	0.24 0.00 1.50 0.00	Comply
Warpage, %	ISO 10545-2	± 0.5%; ± 2.0mm	0.14 -0.09 0.90 -0.60	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	96.8%	Comply
<b>PHYSICAL PROPERTIES</b>				
* Water absorption (E <sub>v</sub> ), %	ISO 10545-3	6 % < E <sub>v</sub> ≤ 10 % Individual maximum 11 %	7.8 8.0	Comply Comply
* Breaking strength, N (Thickness ≥ 7.5 mm)	ISO 10545-4	Not less than 800	1089	Comply
* Modulus of rupture, N/mm <sup>2</sup>	ISO 10545-4	Minimum 18 Individual minimum 16	31 29	Comply Comply
* Abrasion resistance - CU	ISO 10545-7	Report abrasion class and cycles passed	Class 3 Cycles 1500	-
* Crazeing resistance	ISO 10545-11	Required	No crazeing	Comply
<b>CHEMICAL PROPERTIES</b>				
* 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 - 3% Hydrochloric Acid (V / V)		Manufacturer is to state classification	LB	-
- Potassium hydroxide, 30 g / l			LA	-
* Resistance to high concentrations of acids and alkalis - 18% Hydrochloric Acid (V / V)	ISO 10545-13	Test method available	HB	-
- Potassium hydroxide, 100 g / l			HA	-
* Resistance to household chemicals and swimming pool salts - Ammonium Chloride 100 g / l	ISO 10545-13	Minimum B	A	Comply
- Sodium hypochlorite, 20 mg / l			A	Comply
<p>Requirements verified as indicated in the INTERNATIONAL STANDARD, ISO 13006            "Ceramic Tiles - Definitions, Classification, Characteristics and marking", Annex k (normative), Table k.1.            Dry-pressed ceramic tiles 6 % &lt; E<sub>v</sub> ≤ 10 % Group BIIB<sub>6</sub>            The weight, tone and dimensions are subject to some of the inevitable variations typical of ceramic firing processes.</p>				
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