

TECHNICAL SHEET
PORC RF CMTO CONCRETO BCO 60X60 EXT 1.44

EVALUATED FEATURE	TEST METHOD	NORM ANSI A137.1 REQUIREMENTS (Table 10)	RESULTS	CONCLUSION
DIMENSIONS				
* Nominal Size, mm Nominal Size: 600.0 mm Manufacturing Size: 600.0 mm	ASTM C499	- 3.00% / 2.00%	(%) (mm) 0.00 0.00	Comply
* Caliber Range Manufacturing Size: 600.0 mm Average Size: 600.1 mm	ASTM C499	± 0.25%; ± 0.80mm	0.02 0.10	Comply
* Warpage Edge,%	ASTM C485	± 0.40%; ± 1.30mm	0.14 0.00 0.82 0.00	Comply
* Warpage Diagonal, %	ASTM C485	± 0.40%; ± 1.80mm	0.15 0.00 1.28 0.00	Comply
* Wedging, %	ASTM C502	± 0.25%; ± 0.80mm	0.04 -0.01 0.34 -0.10	Comply
* Thickness, mm Manufacturing: 9.5 mm Average result: 9.6 mm	ASTM C499	Max. 1.02 mm	1.05 0.10	Comply
PHYSICAL PROPERTIES				
* Visible Abrasion Resistance	ASTM C1027	As reported	PEI IV	-
* Water Absorption, %	ASTM C373	Impervious Porcelain (P1) wa ≤ 0.5%	0.30	Comply
* Craze Resistance	ASTM C424	Pass	Approved	Comply
* Breaking Strength, lbf	ASTM C648	Average ≥ 275 Individual ≥ 250	470 452	Comply Comply
* Dynamic coefficient of friction - DCOF Wet	ANSI A137.1 Section 9.6	≥ 0.42	0.49	Comply
CHEMICAL PROPERTIES				
* Chemical Resistance	ASTM C650	As reported	Resistant	Comply
* Stain Resistance	ASTM C1378	As reported	Resistant	Comply
<p>Requirements verified as indicated in AMERICAN STANDARD, ANSI A137.1. AMERICAN NATIONAL STANDARD SPECIFICATIONS FOR CERAMIC TILE / Table 10: Porcelain Tile The weight, the tone and the dimensions are subject to some of the typical unavoidable variations of the processes of ceramic cooking.</p>				
DATE OF ISSUE			Wednesday, July 21, 2021	
Prepared by: Quality Supervisor			Reviewed by: Manager Quality Assurance	
César Prado R.			Marlene Chauca R.	

TECHNICAL SHEET
PORC RF CMTO CONCRETO GRIS 60X60 EXT1.44

EVALUATED FEATURE	TEST METHOD	NORM ANSI A137.1 REQUIREMENTS (Table 10)	RESULTS	CONCLUSION
DIMENSIONS				
* Nominal Size, mm Nominal Size: 600.0 mm Manufacturing Size: 600.0 mm	ASTM C499	- 3.00% / 2.00%	(%) (mm) 0.00 0.00	Comply
* Caliber Range Manufacturing Size: 600.0 mm Average Size: 599.8 mm	ASTM C499	± 0.25%; ± 0.80mm	-0.03 -0.20	Comply
* Warpage Edge,%	ASTM C485	± 0.40%; ± 1.30mm	0.10 -0.02 0.60 -0.10	Comply
* Warpage Diagonal, %	ASTM C485	± 0.40%; ± 1.80mm	0.09 -0.01 0.80 -0.10	Comply
* Wedging, %	ASTM C502	± 0.25%; ± 0.80mm	0.02 -0.02 0.21 -0.16	Comply
* Thickness, mm Manufacturing: 9.5 mm Average result: 9.6 mm	ASTM C499	Max. 1.02 mm	1.05 0.10	Comply
PHYSICAL PROPERTIES				
* Visible Abrasion Resistance	ASTM C1027	As reported	PEI II	-
* Water Absorption, %	ASTM C373	Impervious Porcelain (P1) wa ≤ 0.5%	0.20	Comply
* Craze Resistance	ASTM C424	Pass	Approved	Comply
* Breaking Strength, lbf	ASTM C648	Average ≥ 275 Individual ≥ 250	423 408	Comply Comply
* Dynamic coefficient of friction - DCOF Wet	ANSI A137.1 Section 9.6	≥ 0.42	0.55	Comply
CHEMICAL PROPERTIES				
* Chemical Resistance	ASTM C650	As reported	Resistant	Comply
* Stain Resistance	ASTM C1378	As reported	Resistant	Comply
<p>Requirements verified as indicated in AMERICAN STANDARD, ANSI A137.1. AMERICAN NATIONAL STANDARD SPECIFICATIONS FOR CERAMIC TILE / Table 10: Porcelain Tile The weight, the tone and the dimensions are subject to some of the typical unavoidable variations of the processes of ceramic cooking.</p>				
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TECHNICAL SHEET
PORC RF CMTO CONCRETO PLT 60X60 EXT 1.44

EVALUATED FEATURE	TEST METHOD	NORM ANSI A137.1 REQUIREMENTS (Table 10)	RESULTS	CONCLUSION
DIMENSIONS				
* Nominal Size, mm Nominal Size: 600.0 mm Manufacturing Size: 600.0 mm	ASTM C499	- 3.00% / 2.00%	(%) (mm) 0.00 0.00	Comply
* Caliber Range Manufacturing Size: 600.0 mm Average Size: 600.2 mm	ASTM C499	± 0.25%; ± 0.80mm	0.03 0.20	Comply
* Warpage Edge,%	ASTM C485	± 0.40%; ± 1.30mm	0.14 0.00 0.81 0.00	Comply
* Warpage Diagonal, %	ASTM C485	± 0.40%; ± 1.80mm	0.13 0.00 1.10 0.00	Comply
* Wedging, %	ASTM C502	± 0.25%; ± 0.80mm	0.07 0.00 0.60 0.00	Comply
* Thickness, mm Manufacturing: 9.5 mm Average result: 9.5 mm	ASTM C499	Max. 1.02 mm	0.00 0.00	Comply
PHYSICAL PROPERTIES				
* Visible Abrasion Resistance	ASTM C1027	As reported	PEI III	-
* Water Absorption, %	ASTM C373	Impervious Porcelain (P1) wa ≤ 0.5%	0.30	Comply
* Craze Resistance	ASTM C424	Pass	Approved	Comply
* Breaking Strength, lbf	ASTM C648	Average ≥ 275 Individual ≥ 250	468 464	Comply Comply
* Dynamic coefficient of friction - DCOF Wet	ANSI A137.1 Section 9.6	≥ 0.42	0.52	Comply
CHEMICAL PROPERTIES				
* Chemical Resistance	ASTM C650	As reported	Resistant	Comply
* Stain Resistance	ASTM C1378	As reported	Resistant	Comply
<p>Requirements verified as indicated in AMERICAN STANDARD, ANSI A137.1. AMERICAN NATIONAL STANDARD SPECIFICATIONS FOR CERAMIC TILE / Table 10: Porcelain Tile The weight, the tone and the dimensions are subject to some of the typical unavoidable variations of the processes of ceramic cooking.</p>				
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EVALUATED FEATURE	TEST METHOD	NORM ANSI A137.1 REQUIREMENTS (Table 10)	RESULTS		CONCLUSION		
DIMENSIONS							
* Nominal Size, mm			(%)	(mm)			
Nominal length: 610.0 mm	ASTM C499	± 3.00%	0.00	0.00	Comply		
Manufacturing length: 610.0 mm							
Nominal width: 300.0 mm							
Manufacturing width: 303.0 mm							
* Caliber Range							
Manufacturing length: 610.0 mm	ASTM C499	± 0.50%; ± 2.00mm	-0.33	-2.00	Comply		
Average length: 608.0 mm							
Manufacturing width: 303.0 mm							
Average width: 302.6 mm							
* Warpage Edge, %							
Length	ASTM C485	± 0.50%; ± 1.80mm	0.00	-0.13	0.00	-0.80	Comply
Width			0.00	-0.12	0.00	-0.36	Comply
* Warpage Diagonal, %	ASTM C485	± 0.50%; ± 1.80mm	0.00	-0.16	0.00	-1.07	Comply
* Wedging, %	ASTM C502	± 0.50%; ± 2.00mm	0.09	-0.03	0.61	-0.22	Comply
* Thickness, mm							
Manufacturing: 9.0 mm	ASTM C499	Max. 1.02 mm	-3.33	-0.30	Comply		
Average result: 8.7 mm							
PHYSICAL PROPERTIES							
* Visible Abrasion Resistance	ASTM C1027	As reported	PEI II		-		
* Water Absorption, %	ASTM C373	Impervious Porcelain (P1) wa ≤ 0.5%	0.30		Comply		
* Craze Resistance	ASTM C424	Pass	Approved		Comply		
* Breaking Strength, lbf	ASTM C648	Average ≥ 275 Individual ≥ 250	553 539		Comply Comply		
* Dynamic coefficient of friction - DCOF Wet	ANSI A137.1 Section 9.6	≥ 0.42	0.52		Comply		
CHEMICAL PROPERTIES							
* Chemical Resistance	ASTM C650	As reported	Resistant		Comply		
* Stain Resistance	ASTM C1378	As reported	Resistant		Comply		
<p>Requirements verified as indicated in AMERICAN STANDARD, ANSI A137.1. AMERICAN NATIONAL STANDARD SPECIFICATIONS FOR CERAMIC TILE / Table 10: Porcelain Tile The weight, the tone and the dimensions are subject to some of the typical unavoidable variations of the processes of ceramic cooking.</p>							
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