

<b>TECHNICAL SHEET</b>
<b>GRSPB PDRA MINERAL STONE BEIGE 30X61 EXT 1.67</b>

EVALUATED FEATURE	TEST METHOD	NORM ANSI A137.1 REQUIREMENTS (Table 8)	RESULTS	CONCLUSION
<b>DIMENSIONS</b>				
* 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	-0.11      -0.70	Comply
Average length:            609.3 mm				
Manufacturing width:    303.0 mm				
Average width:            303.1 mm				
* Warpage Edge, %				
Length	ASTM C485	± 0.75%; ± 2.00mm	0.03   -0.04   0.20   -0.22	Comply
Width			0.00   -0.09   0.00   -0.27	
* Warpage Diagonal, %	ASTM C485	± 0.50%; ± 2.00mm	0.00   -0.11   0.00   -0.74	Comply
* Wedging, %	ASTM C502	± 0.50%; ± 2.00mm	0.10   -0.03   0.65   -0.21	Comply
* Thickness, mm				
Manufacturing:            8.5 mm	ASTM C499	Max. 1.02 mm	0.00      0.00	Comply
Average result:            8.5 mm				
<b>PHYSICAL PROPERTIES</b>				
* Visible Abrasion Resistance	ASTM C1027	As reported	PEI III	-
* Water Absorption, %	ASTM C373	Vitreous (P2) 0.5% < wa ≤ 3.0%	2.80	Comply
* Craze Resistance	ASTM C424	Pass	Approved	Comply
* Breaking Strength, lbf	ASTM C648	Average ≥ 250 Individual ≥ 225	393 382	Comply Comply
* Dynamic coefficient of friction - DCOF Wet	ANSI A137.1 Section 9.6	≥ 0.42	0.50	Comply
<b>CHEMICAL PROPERTIES</b>				
* 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 8: Pressed Floor Tile            The weight, the tone and the dimensions are subject to some of the typical unavoidable variations of the processes            of ceramic cooking.</p>				
<b>DATE OF ISSUE</b>		Tuesday, March 16, 2021		
<b>Prepared by: Quality Supervisor</b>		<b>Reviewed by: Manager Quality Assurance</b>		
César Prado R.		Marlene Chauca R.		



<b>TECHNICAL SHEET</b>
<b>GRSPB PDRA MINERAL STONE BEIGE 61X61 EXT 1.48</b>

EVALUATED FEATURE	TEST METHOD	NORM ANSI A137.1 REQUIREMENTS (Table 8)	RESULTS	CONCLUSION
<b>DIMENSIONS</b>				
* Nominal Size, mm Nominal Size: 610.0 mm Manufacturing Size: 610.0 mm	ASTM C499	± 3.00%	(%) (mm) 0.00 0.00	Comply
* Caliber Range Manufacturing Size: 610.0 mm Average Size: 609.5 mm	ASTM C499	± 0.50%; ± 2.00mm	-0.08 -0.50	Comply
* Warpage Edge,%	ASTM C485	± 0.75%; ± 2.00mm	0.03 -0.03 0.20 -0.20	Comply
* Warpage Diagonal, %	ASTM C485	± 0.50%; ± 2.00mm	0.00 -0.07 0.00 -0.60	Comply
* Wedging, %	ASTM C502	± 0.50%; ± 2.00mm	0.09 0.00 0.80 0.00	Comply
* Thickness, mm Manufacturing: 8.5 mm Average result: 8.9 mm	ASTM C499	Max. 1.02 mm	4.71 0.40	Comply
<b>PHYSICAL PROPERTIES</b>				
* Visible Abrasion Resistance	ASTM C1027	As reported	PEI III	-
* Water Absorption, %	ASTM C373	Vitreous (P2) 0.5% < wa ≤ 3.0%	1.80	Comply
* Craze Resistance	ASTM C424	Pass	Approved	Comply
* Breaking Strength, lbf	ASTM C648	Average ≥ 250 Individual ≥ 225	395 387	Comply Comply
* Dynamic coefficient of friction - DCOF Wet	ANSI A137.1 Section 9.6	≥ 0.42	0.49	Comply
<b>CHEMICAL PROPERTIES</b>				
* 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 8: Pressed Floor 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**  
**GRSPB PDRA MINERAL STONE SILVER 30X61 EXT 1.67**

EVALUATED FEATURE	TEST METHOD	NORM ANSI A137.1 REQUIREMENTS (Table 8)	RESULTS		CONCLUSION		
<b>DIMENSIONS</b>							
* 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	0.31	1.90	Comply		
Average length: 611.9 mm							
Manufacturing width: 303.0 mm							
Average width: 304.0 mm							
* Warpage Edge, %							
Length	ASTM C485	± 0.75%; ± 2.00mm	0.08	0.00	Comply		
Width			0.00	-0.09		0.00	-0.26
* Warpage Diagonal, %	ASTM C485	± 0.50%; ± 2.00mm	0.06	-0.05	0.44	-0.36	Comply
* Wedging, %	ASTM C502	± 0.50%; ± 2.00mm	0.05	0.00	0.31	0.00	Comply
* Thickness, mm							
Manufacturing: 8.5 mm	ASTM C499	Max. 1.02 mm	2.35	0.20	Comply		
Average result: 8.7 mm							
<b>PHYSICAL PROPERTIES</b>							
* Visible Abrasion Resistance	ASTM C1027	As reported	PEI III		-		
* Water Absorption, %	ASTM C373	Vitreous (P2) 0.5% < wa ≤ 3.0%	1.90		Comply		
* Craze Resistance	ASTM C424	Pass	Approved		Comply		
* Breaking Strength, lbf	ASTM C648	Average ≥ 250 Individual ≥ 225	391 382		Comply Comply		
* Dynamic coefficient of friction - DCOF Wet	ANSI A137.1 Section 9.6	≥ 0.42	0.48		Comply		
<b>CHEMICAL PROPERTIES</b>							
* 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 8: Pressed Floor 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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<b>TECHNICAL SHEET</b>
<b>GRSPB PDRA MINERAL STONE SILVER 61X61 EXT 1.48</b>

EVALUATED FEATURE	TEST METHOD	NORM ANSI A137.1 REQUIREMENTS (Table 8)	RESULTS	CONCLUSION
<b>DIMENSIONS</b>				
* Nominal Size, mm Nominal Size: 610.0 mm Manufacturing Size: 610.0 mm	ASTM C499	± 3.00%	(%) (mm) 0.00 0.00	Comply
* Caliber Range Manufacturing Size: 610.0 mm Average Size: 609.3 mm	ASTM C499	± 0.50%; ± 2.00mm	-0.11 -0.70	Comply
* Warpage Edge,%	ASTM C485	± 0.75%; ± 2.00mm	0.06 0.00 0.37 0.00	Comply
* Warpage Diagonal, %	ASTM C485	± 0.50%; ± 2.00mm	0.06 0.00 0.48 0.00	Comply
* Wedging, %	ASTM C502	± 0.50%; ± 2.00mm	0.14 0.00 1.20 0.00	Comply
* Thickness, mm Manufacturing: 8.5 mm Average result: 8.8 mm	ASTM C499	Max. 1.02 mm	3.53 0.30	Comply
<b>PHYSICAL PROPERTIES</b>				
* Visible Abrasion Resistance	ASTM C1027	As reported	PEI III	-
* Water Absorption, %	ASTM C373	Vitreous (P2) 0.5% < wa ≤ 3.0%	1.90	Comply
* Craze Resistance	ASTM C424	Pass	Approved	Comply
* Breaking Strength, lbf	ASTM C648	Average ≥ 250 Individual ≥ 225	375 374	Comply Comply
* Dynamic coefficient of friction - DCOF Wet	ANSI A137.1 Section 9.6	≥ 0.42	0.53	Comply
<b>CHEMICAL PROPERTIES</b>				
* 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 8: Pressed Floor 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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<b>TECHNICAL SHEET</b>
<b>GRSPB PDRA MINERALSTO WHI 30X61 EXT 1.67</b>

EVALUATED FEATURE	TEST METHOD	NORM ANSI A137.1 REQUIREMENTS (Table 8)	RESULTS	CONCLUSION
<b>DIMENSIONS</b>				
* 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:      302.1 mm				
* Warpage Edge, %				
Length	ASTM C485	± 0.75%; ± 2.00mm	0.05   -0.01   0.30   -0.06	Comply
Width			0.00   -0.06   0.00   -0.17	
* Warpage Diagonal, %	ASTM C485	± 0.50%; ± 2.00mm	0.07   -0.05   0.43   -0.34	Comply
* Wedging, %	ASTM C502	± 0.50%; ± 2.00mm	0.05   -0.01   0.37   -0.05	Comply
* Thickness, mm				
Manufacturing:      8.5 mm	ASTM C499	Max. 1.02 mm	1.18      0.10	Comply
Average result:      8.6 mm				
<b>PHYSICAL PROPERTIES</b>				
* Visible Abrasion Resistance	ASTM C1027	As reported	PEI III	-
* Water Absorption, %	ASTM C373	Vitreous (P2) 0.5% < wa ≤ 3.0%	2.90	Comply
* Craze Resistance	ASTM C424	Pass	Approved	Comply
* Breaking Strength, lbf	ASTM C648	Average ≥ 250 Individual ≥ 225	387 373	Comply Comply
* Dynamic coefficient of friction - DCOF Wet	ANSI A137.1 Section 9.6	≥ 0.42	0.50	Comply
<b>CHEMICAL PROPERTIES</b>				
* 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 8: Pressed Floor 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 8)	RESULTS	CONCLUSION
<b>DIMENSIONS</b>				
* Nominal Size, mm Nominal Size: 610.0 mm Manufacturing Size: 610.0 mm	ASTM C499	± 3.00%	(%) (mm) 0.00 0.00	Comply
* Caliber Range Manufacturing Size: 610.0 mm Average Size: 611.0 mm	ASTM C499	± 0.50%; ± 2.00mm	0.16 1.00	Comply
* Warpage Edge,%	ASTM C485	± 0.75%; ± 2.00mm	0.11 0.00 0.70 0.00	Comply
* Warpage Diagonal, %	ASTM C485	± 0.50%; ± 2.00mm	0.13 0.00 1.10 0.00	Comply
* Wedging, %	ASTM C502	± 0.50%; ± 2.00mm	0.09 0.00 0.75 0.00	Comply
* Thickness, mm Manufacturing: 8.5 mm Average result: 8.8 mm	ASTM C499	Max. 1.02 mm	3.53 0.30	Comply
<b>PHYSICAL PROPERTIES</b>				
* Visible Abrasion Resistance	ASTM C1027	As reported	PEI III	-
* Water Absorption, %	ASTM C373	Vitreous (P2) 0.5% < wa ≤ 3.0%	1.80	Comply
* Craze Resistance	ASTM C424	Pass	Approved	Comply
* Breaking Strength, lbf	ASTM C648	Average ≥ 250 Individual ≥ 225	345 336	Comply Comply
* Dynamic coefficient of friction - DCOF Wet	ANSI A137.1 Section 9.6	≥ 0.42	0.45	Comply
<b>CHEMICAL PROPERTIES</b>				
* 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 8: Pressed Floor 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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