

**Model:** SHINE TITANIO 33,3X59,2(A)  
**Codes:** 100107850 - V13499371  
**Water absorption:** BIII - Wall tiles ( $10\% \leq E \leq 20\%$ )  
**Thickness:** 5/16 " approx.



### DIMENSIONAL FEATURES

Thickness	5/16 " approx.	
Width	13 3/32 " approx.	
Length	23 7/32 " approx.	
Length and width deviation	Below 0.15%	$\leq 0.5\%*$
Side straightness deviation	Below 0.15%	$\leq 0.5\%*$
Squareness deviation	Below 0.15%	$\leq 0.6\%*$
Surface flatness deviation	Below 0.15%	$\leq 0.5\%*$

\*ASTM C485/C499/C502

### MECHANICAL FEATURES

Breaking strength	322,06 LBF	$>135$ LBF*
Modulus of rupture	7,13 LBF	$\geq 3$ LBF*
Abrasion resistance	No Aplica	
Crazing resistance	Resists 3 cycles	

\*ASTM C648

### HYGIENIC FEATURES

Chemical resistance	Class "A" for swimming pools and cleaning products (resists attack). Minimum Class "B" for acids and bases	CLASE B Min. *
Stain resistance	Class 5. Easy cleaning with water	CLASE 3 Min. *

\*ASTM C650/C1378

### SCOPE OF USE

Technical code-1	Use on walls	
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### ANTI-SLIP VALUE

Dynamic coefficient of friction	No Aplica	
Slip resistance (bare feet)	No Aplica	

\*ANSI A137.1

### PACKING

Boxes	12,73 SQF/CS	
Pallets	611,13 SQF/PAL	
Units	2,12 SQF/ST	

System Certification



Do not use cleaning agents containing hydrofluoric acid.  
It is recommended to fix tiles with a minimum joint of 1,5 mm. Do not fix without joint.  
For big sizes, it is recommended to fix with mortars containing polymeric additives and to use the double gluing technique.  
Mosaic tiles must be grouted.

This document is only commercial and cannot be used as expert opinion, documentary evidence or in any legal or administrative procedure unless authorized by PORCELANOSA S.A.  
A DCOF value of  $> 0.42$  is the new standard for tiles specified for commercial level interior applications expected to be walked upon when wet, in standard A137.1-2012. It replaces the SCOF value of  $> 0.60$  referenced in ADA Guidelines (measurement made as per the ASTM C1028 test method) However, there are many factors that affect the possibility of a slip occurring and then tiles with a DCOF of 0.42 or greater are not necessarily suitable for all projects. The specifier shall determine if tiles are appropriate for specific project conditions, considering by way of example, but not limited to: type of use, traffic, expected contaminants, expected maintenance, expected wear and manufacturer guidelines and recommendations. Tiles with a DCOF inferior to 0.42 shall only be installed when the surface will kept dry when walked upon and proper safety procedures are followed when cleaning the tiles.