

## TECHNICAL DATA SHEET

**PRODUCT GROUP: BENTLEY** Bevin, Bergamo, Bernina, Bishorn & Bistra  
**PRODUCT TYPE: UNGLAZED PORCELAIN STONEWARE – UNI EN 14411**  
**SIZES: 595 X 595MM**  
**FINISH: NATURAL ANTI-SLIP**  
**THICKNESS: 20MM**  
**USE: EXTERNAL RAISED FLOORS**

TECHNICAL CHARACTERISTICS	INDUSTRY STANDARD	REQUIREMENT	ACTUAL VALUE
<b>DIMENSION AND SURFACE QUALITY:</b>			
Length and width	UNI EN ISO 10545-2	± 0.60%	± 0.15%
Thickness	UNI EN ISO 10545-2	± 5%	± 3%
Edge straightness	UNI EN ISO 10545-2	± 0.50%	± 0.25%
Orthogonality (squareness)	UNI EN ISO 10545-2	± 0.50%	± 0.2%
Planarity (flatness)	UNI EN ISO 10545-2	± 0.50%	± 0.25%
Appearance	UNI EN ISO 10545-2	≥ 95%	Conforms
<b>PRODUCT QUALITY AND DURABILITY:</b>			
Water absorption	UNI EN ISO 10545-3	≤ 0.5%	≤ 0.5%
Modulus of rupture (bending strength)	UNI EN ISO 10545-4	≥ 35 N/mm <sup>2</sup>	≥ 45 N/mm <sup>2</sup>
Breaking strength	UNI EN ISO 10545-4	≥ 1300 N	≥ 11000 N
Resistance to deep abrasion (unglazed tiles)	UNI EN ISO 10545-6	≤ 175 mm <sup>3</sup>	≤ 120-150 mm <sup>3</sup>
Linear thermal expansion	UNI EN ISO 10545-8	-	9 x 10 <sup>-6</sup> / °C
Thermal shock resistance	UNI EN ISO 10545-9	-	Conforms
Frost resistance	UNI EN ISO 10545-12	No alteration to surface	Conforms
Chemical resistance - Low Concentrations of Acids and Alkaline.	UNI EN ISO 10545-13	No visible signs to surface	ULA-ULB
Chemical resistance – High Concentrations of Acids and Alkaline.	UNI EN ISO 10545-13	No visible signs to surface	UHA-UHB
Chemical resistance - Domestic Chemicals and Additives for Swimming Pools.	UNI EN ISO 10545-13	UB min.	UA
Stain resistance	UNI EN ISO 10545-14	Min Class 3	Class 5
<b>SLIP RESISTANCE:</b>			
Areas with footwear	UNI EN ISO 10545-17 (DIN 51130)	R9 from 3° to 10° R10 over 10° to 19° R11 over 19° to 27° R12 over 27° to 35°	N/A N/A Natural Anti-Slip N/A
Areas with bare feet	DIN 51097	A over 12° to 18° B over 18° to 24° C over 24°	N/A Natural Anti-Slip N/A
Slip resistance co-efficient of friction	B.S. 7976-2000		

**Important Note:**

For installations using Pedestals that incorporate a void of 75mm or greater, please contact us for advice regarding the recommended provision of reinforcing mesh for safety. All test results are based upon current test data provided by the manufacturer and are provided in good faith. Alfresco cannot be held responsible for any variation in the test data due to changes in manufacture or material characteristics. Errors & omissions excepted.