



Tender Specifications King Granit

Supply of porcelain stoneware floor coverings of Porcelaingres:

1. CHARACTERISTICS OF PRODUCTS AND MANUFACTURING PROCESSES

The material must be manufactured by means of a dry-pressing process of the atomized mixture made up of kaolin minerals, feldspars and inert materials with low iron content, and subsequently made mechanically resistant by means of the firing process at a temperature of 1250°C. The material surface may not possess further protecting additives.

2. STANDARD CONFORMITY

The material must be certificate after ISO standards in accordance with the valid international defined technical features.

ISO 10545,2 (dimensions)
ISO 10545,3 (waters absorption)
ISO 10545,4 (bending strength)
ISO 10545,6 (resistance against deep abrasion)
ISO 10545,8 (linear thermal expansion coefficient)
ISO 10545,9 (resistance to thermal shock)
ISO 10545,13 (chemical resistance)
ISO 10545,12 (frost resistance)
ISO 10545,14 (stain stability)
DIN 51094 (colour resistance to light)

3. PRODUCT DESCRIPTION FOR THE TRADE ENTERPRISE

COLLECTION	"King Granit"
FORMAT	"45,7x45,7 »"
SURFACE	"prepolished" / "polished"
STRENGTH	"10 mm"



4. TECHNICAL FEATURES

Technical features (ISO standard)	Results
Size / Thickness:	45,7x45,7 cm (10 mm. $\pm 5\%$)
Water absorption (ISO 10545-3 EN 99):	E < 0,05 % Prepolished E < 0,07 % Polished
Frost resistance (ISO10545-12 EN 202):	Frost-proof
Deep abrasion resistance (removed volume in cu.mm. – (ISO10545-6 EN102): 130 mm ³	
Breaking load index:	approximately 320 Kg 3100 N (10 mm. Thickness $\pm 5\%$)
Bending strength (ISO10545-4 EN 100):	53 N / mmq - 520 Kg/cmq
Chemical resistance (ISO 10545-13 EN 106):	Unaffected
Slip Resistance (DIN 51130 / BCR)	R10 / $\geq 0,40$ prepolished
Sizes (ISO 10545-2 EN 98):	Length and Width $\pm 0,2\%$ mean value Thickness $\pm 5\%$ mean value Linearity $\pm 0,2\%$ mean value Wedging $\pm 0,2\%$ mean value Warpage $\pm 0,2\%$ mean value
Coefficient of linear thermal expansion (EN 103):	$7 \times 10^{-6} \text{ } ^\circ\text{K}^{-1}$
Resistance to thermal shock (ISO 10545-9 EN 104):	Resistant
Colour resistance to light (DIN 51094):	no change in brightness or colour
Stain resistance after abrasion and abrasion + chemical attach. (ISO10545-14): Class 5 (surface completely restored to the pristine aspect)	