



Tender Specifications Grestech – „Cotto“

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 possess a high-quality, burned glaze.

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 10545,8 (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)
DIN 51130 (Slip resistance)
DIN 51097 (slip resistance wet barefoot area)

3. PRODUCT DESCRIPTION FOR THE TRADE ENTERPRISE

COLLECTION "Grestech"
SERIE "Cotto"
FORMAT "33,3x33,3"

4. TECHNICAL FEATURES

Technical features (ISO standard)	Results										
Water absorption (ISO 10545-3 EN 99):	$E \leq 0,05 \%$										
Frost resistance (ISO10545-12 EN 202):	Frost-proof										
Bending strength (ISO10545-4 EN 100):	33,3x33,3 $N \leq 50 \text{ N/ mm}^2$										
Chemical resistance (ISO 10545-13 EN 106):	Unaffected										
Slip Resistance (DIN 51130 / BCR)	R10 / $\geq 0,40$										
Slip resistance on wet barefoot area (DIN 51097)	A+B										
Sizes (ISO 10545-2 EN 98):	<table border="0"> <tr> <td>Length and Width</td> <td>$\pm 0,2\%$ mean value</td> </tr> <tr> <td>Thickness</td> <td>$\pm 5\%$ mean value</td> </tr> <tr> <td>Linearity</td> <td>$\pm 0,2\%$ mean value</td> </tr> <tr> <td>Wedging</td> <td>$\pm 0,2\%$ mean value</td> </tr> <tr> <td>Warpage</td> <td>$\pm 0,2\%$ mean value</td> </tr> </table>	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
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Wedging	$\pm 0,2\%$ mean value										
Warpage	$\pm 0,2\%$ mean value										
Coefficient of linear thermal expansion (EN 103):	$9 \times 10^{-6} \text{ } ^\circ\text{K}^{-1}$										
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 4 (surface completely restored to the pristine aspect)										