

**COMPRASION OF GRETON FLOOR TILES TECHNICAL SPECIFICATIONS
AGAINST EUROPEAN STANDARD EN 13748-1**

PROPERTY	EN13748-1 REQUIRED VALUES FLOOR TILES FOR INTERNAL USE	GRETON
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MECHANICAL STRENGTH

BREAKING STRENGTH	Single	min. 4 MPa	> 6,5 Mpa
	Average	min. 5 MPa	
BREAKING LOAD		min. 2,5 kN for tiles with a surface area \leq 1100 cm ²	> 4,5 kN (30x30x2,9cm)
		min. 3,0 kN for tiles with a surface area > 1100 cm ²	> 7,0 kN (40x40x3,7cm)
ABRASION RESISTANCE		max. 20 cm ³ /50 cm ²	<20 cm ³ /50 cm ²

WATER ABSORPTION

IMMERSION WATER ABSORPTION		%8 max.	< %5
SURFACE WATER ABSORPTION		max. 0,4 g/cm ²	< 0,3 g/cm ²

SHAPE, DIMENSIONS and TOLERANCE

EDGE LENGTH TOLERANCE		\pm %0,3	\pm %0,2 ($<$ \pm 1mm 40x40x1,8cm)
THICKNESS TOLERANCE		\pm 2 mm (for a thickness < 40 mm) \pm 3 mm (for a thickness \geq 40 mm)	\pm 1,5 mm
THICKNESS OF THE FACING LAYER (Applicable only for dual layer tiles)		min. 4mm (for a product that will not be ground) min. 8mm (for a product to be ground after laying)	> 12 mm
UPPER FACE STRAIGHTNESS OF EDGES		Discrepancy between the age and the ruler, maks. %0,3 of the lenght of the considered edge	PASS
UPPER FACE FLATNESS		Deviaton of any point; maks. %0,3 of the lenght of the diagonal	PASS

OTHER PROPERTIES

REACTION TO FIRE		Considered to be Class A1 fl (Without the need for testing)	Class A1fl
FADING RESISTANCE TO LIGHT		(Not Applicable in EN 13748-1)	No Colour fade observed
FREEZE / THAW RESISTANCE		(Not Applicable in EN 13748-1)	PASS
SURFACE BRIGHTNESS		(Not Applicable in EN 13748-1)	> 30 Gloss