



## TECHNICAL SPECIFICATION

### Product details:

Product description : Munich  
Work size : 800x800 mm  
Test Method followed : ISO 10545 Part 1-17  
Date of issue : 8-jul-15

S.N.	Technical Characteristics	ISO 13006 Group B Ia	Value	Test Method
1	Length and Width	$\pm 0.6\%$	$\pm 0.10\%$	ISO 10545-2
2	Thickness	$\pm 5.0\%$	$\pm 4.00\%$	
3	Straightness of Sides	$\pm 0.5\%$	$\pm 0.10\%$	
4	Rectangularity	$\pm 0.5\%$	$\pm 0.10\%$	
5	Surface Flatness	$\pm 0.5\%$	$\pm 0.15\%$	
6	Surface Quality	Minimum 95% free from visible defects.	Minimum 98% free from visible defects.	
7	Water Absorption	$\leq 0.5\%$	$\leq 0.08\%$	ISO 10545-3
8	Modulus of Rupture	$\geq 35 \text{ N/mm}^2$	$\geq 40 \text{ N/mm}^2$	ISO 10545-4
9	Breaking Strength	$\geq 1300 \text{ N}$	$\geq 2000 \text{ N}$	
10	Impact Resistance	Test Method Available	No identification or cracking	ISO 10545-5
11	Surface Abrasion Resistance	Report abrasion class & cycles passed	E SHIELD = Class V	ISO 10545-7
12	Co-efficient of thermal Expansion	Test Method Available	$6 \times 10^{-6} \text{ Max}$	ISO 10545-8
13	Crazing Resistance (glazed tiles)	Required	Passes 4 cycles at $7.0 \text{ kg/cm}^2$	ISO 10545-11
14	Frost Resistance	Required	100 Cycle Pass	ISO 10545-12
15	Chemical Resistance//	Manufacture to state the class	Min GB, GLB, GHB	ISO 10545-13
16	Stain Resistance*	Min Class 3	Min Class 3	ISO 10545-14

\*\* Vitrified tiles have resistance to most of the stains / chemicals but, it is recommended to take due care while laying and for day-to-day maintenance

// Resistance to acids & alkalies (Exception of Hydrofluoric Acid & its Compounds)