

# MIR CERAMIC LTD.

## TECHNICAL SPECIFICATION



Test Description	Test Method	International Standard	Mir Standard as tested by BUET Laboratories		
			Wall Group B II	Floor Group B I a	Homogeneous Group B I
Length & Width	EN 98 EN ISO 10545-2	± 0.5%	± 0.4%	± 0.35%	± 0.5%
Thickness	EN 98 EN ISO 10545-2	± 0.5%	± 0.2%	± 0.3%	± 0.3%
Straightness of Side	EN 98 EN ISO 10545-2	± 0.5%	± 0.2%	± 0.2%	± 0.2%
Rectangularity	EN 98 EN ISO 10545-2	± 0.6%	± 0.45%	± 0.35%	± 0.4%
Surface Flatness (War Page)	EN 98 EN ISO 10545-2	± 0.5%	± 0.24%	± 0.42%	± 0.2%
Water Absorption	EN 99 EN ISO 10545-3	Floor as per Group B II a (3%-6%)	---	± 2.08%	---
		Wall as per Group B II (10%-20%)	± 14.00%	---	---
		Porcelain as per Group B I (E<0.5)			± 0.06%
Modulus of Rupture	EN 100 EN ISO 10545-4	Floor as per Group B II a>20N/mm2	---	24.43 N/mm2	---
		Wall as per Group B II>12N/mm2	13.4N/mm2	---	---
		Porcelain as per Group B I >27N/mm2	---	---	± 44N/mm2
Scratch Hardness (MOHS)	EN 101	Floor : Un glazed-6 Glazed-5 Wall: Glazed-3 Porcelain	--- --- 3 (MOHS'scale) ---	5 (MOHS'scale)	9 (MOHS'scale)
Linear Thermal Expansion	EN 103 EN ISO 10545-8	9 Max	9 Max	9 Max	9 max
Resistance to Thermal Shock	EN 104 EN ISO 10545-9	No damage	No damage	No damage	No damage
Crazing Resistance (glazed)	EN 105 EN ISO 10545-11	No crazing	No crazing	No crazing	No crazing
Resistance to Chemical (glazed)	EN 122 EN ISO 10545-13	No damage	No damage	No damage	No damage
Frost Resistance	EN 202 EN ISO 10545-12	No damage	No damage	No damage	No damage
Color Resistance to Light	Exposing 60 watt (20nos) tungsten lamp for 24 hours.	No Change in brightness or color occurred	No Change in brightness or color occurred	No Change in brightness or color occurred	No Change in brightness or color occurred
Visual Inspection			The tiles are rectangular in shape, flat and free from flows and other manufacturing defects	The tiles are square in shape, flat and free from flows and other manufacturing defects	The tiles are square in shape flat and free from flows and other manufacturing defects

The above standards are also confirmed by BSTI & SACMI Central Laboratory, Italy