

TECHINICAL SPECIFICATIONS OF MARBOGRANIT PRODUCTS

	S. NO	TECHNICAL PROPERTIES	METHOD OF TESTING	STD VALUE	RESTILE VALUE
DIMENSIONAL PROPERTIES	1	Deviation in Length	EN 98	± 0.6 %	± 0.1 %
	2	Deviation in Thickness	EN 98	± 5.0 %	± 1.0 %
	3	Rectangularity	EN 98	± 0.6 %	± 0.2 %
	4	Straightness of Sides	EN 98	± 0.5 %	± 0.1 %
	5	Surface Flatness			
			a. Centre Curvature	EN 98	± 0.5 %
		b. Edge Curvature	EN 98	± 0.5 %	± 0.2 %
		c. Warpage	EN 98	± 0.5 %	± 0.2 %
PHYSICAL PROPERTIES	6	Water Absorption	EN 99	≤ 0.5 %	≤ 0.07 %
	7	Flexural Strength	EN 100	≥ 27 N/mm ²	≥ 47.3 N/mm ²
	8	Breaking Strength	ASTM C - 648	≥ 1113 N	≥ 2829 N
	9	MOHS Hardness	EN 101	≥ 6 MOHS	8 MOHS
	10	Abrasion Resistance	EN 102	≤ 205 mm ³	< 144 mm ³
	11	Density	DIN 51082	> 2 g/cc	> 2.3 g/cc
	12	Color Resistance to Light	DIN 51094	No Damage	No Damage
	13	Thermal Expansion	EN 103	≤ 9 x 10 ⁻⁶ / °C	≤ 6.4 x 10 ⁻⁶ / °C
	14	Moisture Expansion	ISO 10545 - 10	Nil	Nil
	15	Thermal Shock Resistance	EN 104	No Damage	No Damage
	16	Frost Resistance	EN 202	No Damage	No Damage
	17	Skid Resistance (Friction Co-Efficient)	ASTM C - 1028	> 0.4	> 0.6
	18	Surface Quality	-	A min of 95% of the tiles shall be free from visible defects	No Visible Defects
CHEMICAL PROPERTIES	19	Acid Resistance	IS 13756 B1	Required	Excellent
	20	Alkali Resistance	IS 13756 B1	Required	Excellent
	21	Chemical Resistance	EN 106	EN 101	No Damage