

TECHNO SLAB SPECIFICATIONS

Sr. No.	REQUIREMENTS	BIS 15622 - 2017 [Group B1a]	TEST METHOD	RESTILE 920x615x11.5	RESTILE 1200x600x11.5	RESTILE 1520x610x11.5
DIMENSIONAL PROPERTIES	1 Deviation in Length & Width	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%	± 0.1%	± 0.1%
	3 Deviation in Thickness	± 5%	BIS 13630-01 ISO 10545-02	± 3%	± 3%	± 3%
	4 Straightness of Sides	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%	± 0.1%	± 0.1%
	5 Rectangularity	± 0.1%	BIS 13630-01 ISO 10545-02	± 0.1%	± 0.1%	± 0.1%
	Surface Flatness					
	a. Centre Curvature	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.15%	± 0.15%	± 0.15%
	b. Edge Curvature	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.15%	± 0.15%	± 0.15%
	c. Warpage	± 0.5%	BIS 13630-01 ISO 10545-02	± 0.15%	± 0.15%	± 0.15%
	7 Surface Quality	Min. 95% free from visible defects.	BIS 13630-01 ISO 10545-02	Min 95%	Min 95%	Min 95%
	8 Water Absorption by weight	Average < 0.08%, Individual 0.5 Max	BIS 13630-02 ISO 10545-03	≤0.05	≤0.05	≤0.05
	9 Modulus of Rupture (N/mm ²)	Average 35, individual 32 Min	BIS 13630-06 ISO 10545-04	35	35	35
PHYSICAL PROPERTIES	10 Breaking Strength (N) Thickness >7.5mm	1300 Minimum	BIS 13630-06 ISO 10545-04	1800	1800	1800
	11 Moisture expansion (mm/m)	0.02 Max	BIS 13630-03 ISO 10545-10	Nil	Nil	Nil
	12 Scratch Hardness of surface [on Moh's scale]	6 Minimum	BIS 13630-13	6 Min.	6 Min.	6 Min.
	13 Resistance to deep abrasion of unglazed vitrified tiles	140 Max	BIS 13630-12 ISO 10545-06	<144mm ³	<144mm ³	<144mm ³
	15 Thermal Shock Resistance	10 Cycles Min	BIS 13630-05 ISO 10545-09	No damage	No damage	No damage
	17 Impact Resistance - Co-efficient of Restitution	0.55, Min	BIS 13630-14 ISO 10545-05	0.55	0.55	0.55
	18 Coefficient of Friction - Floor Tiles [Skid Resistance]	Manufacture to declare value	ISO 10545-17	u > 0.5 R > 11	u > 0.5 R > 11	u > 0.5 R > 11
	20 Bulk Density, in [g/cc]	2.2 Min	BIS 13630-02	>2.2	>2.2	>2.2
	21 Resistance to Stains - Unglazed Tiles	Class 2, Min	BIS 13630-08 ISO 10545-13	Class 2	Class 2	Class 2
	22 Resistance to Chemicals - Unglazed Tiles					
CHEMICAL PROPERTIES	a. Resistance to low concentrations of acids & alkalies	Required	BIS 13630-07 ISO 10545-13	Class A	Class A	Class A
	b. Resistance to high concentrations of acids & alkalies	Required		Class A	Class A	Class A
	c. Resistance household chemicals & swimming pool salts	Required		Class A	Class A	Class A