

Range Name:
Project Whites

Ref: NCL/Wall Tile/ ISO/03617/2020-21
*Ceramic Glazed Wall Tile “ First Grade ”, Nominal size 150x150x6 mm
(Non rectified) as submitted by the party. Sample not drawn by National
Cera Lab.*

	Testing To Standard	Average Typical Values	Result
A Dimension & Surface Quality			
Length	ISO 10545 - 2	Declared Value	Complies
Width	ISO 10545 - 2	Declared Value	Complies
Thickness	ISO 10545 - 2	Declared Value	Complies
Straightness of Sides	ISO 10545 - 2	Declared Value	Complies
Rectangularity	ISO 10545 - 2	Declared Value	Complies
Centre curvature	ISO 10545 - 2	Declared Value	Complies
Edge curvature	ISO 10545 - 2	Declared Value	Complies
Warpage	ISO 10545 - 2	Declared Value	Complies
Surface quality	ISO 10545 - 2	Declared Value	99%
Physical Properties			
Water Absorption	ISO 10545 - 3	13.82 %	Complies
Breaking Strength	ISO 10545 - 4	410.03 N	Complies
Modulus of Rupture	ISO 10545 - 4	23.00 N/mm ²	Complies
Coefficient of Liner Thermal Expansion	ISO 10545 - 8	-	5.34x10 ⁻⁶
Thermal Shock Resistance	ISO 10545 - 9	15/145°c 15/145°c	Complies
Cracking Resistance	ISO 10545 - 11	-	Complies
Moisture Expansion	ISO 10545 - 10	-	0.05mm/m
Chemical Resistance Properties			
Hydrochloric Acid solution 3% (v/v)	ISO 10545 - 13	Declared Value	Complies
Citric Acid Soln. 100gm/l	ISO 10545 - 13	Declared Value	Complies
Potassium Hydroxide Soln. 30gm/l	ISO 10545 - 13	Declared Value	Complies
Hydrochloric Acid solution 18% (V/V)	ISO 10545 - 13	Declared Value	Complies
Lactic Acid Soln. 5% (v/v)	ISO 10545 - 13	Declared Value	Complies
Potassium Hydroxide Soln. 100gm/l	ISO 10545 - 13	Declared Value	Complies
Ammonium chloride solution 100g/L	ISO 10545 - 13	Declared Value	Complies
Sodium hypochlorite solution , 20mg/L	ISO 10545 - 13	Declared Value	Complies
Lead Acetic Acid Solution 4% (v/v)	ISO 10545 - 15	Declared Value	0.007 mg/dm ²
Cadmium Acetic Acid Solution 4% (v/v)	ISO 10545 - 15	Declared Value	0.004 mg/dm ²
Stain Resistance Properties			
Red Past in Light Oil	ISO 10545 - 14	Declared Value	5
Iodine in Alcohol	ISO 10545 - 14	Declared Value	4
Olive Oil	ISO 10545 - 14	Declared Value	5

