

TECHNICAL SPECIFICATION

PROPERTY (All tests based on EN ISO:10545)	STANDARD	LAMAR 12mm	LAMAR 20mm
REGULATORY PROPERTIES			
Deviation in Length and Width	0.5%	0.01%	0.02%
Deviation in Thickness	5.00%	0.50%	0.40%
Straightness of Sides	0.50%	0.03%	0.04%
Rectangularity	0.50%	0.02%	0.05%
Surface Flatness	0.50%	0.05%	0.05%
Surface Quality	No defects observed in 95% slabs	Conforms	Conforms
MECHANICAL PROPERTIES			
Water Absorption	<0.6%	0.02%	0.03%
Bulk Density	As per Mfg	2200-2400kg/m ³	2200-2400kg/m ³
Modulus of Rupture	Min 35N/mm ²	36 N/mm ²	36 N/mm ²
Breaking Strength	Min 1300N	3214 N	9266 N
Impact Resistance	No cracking on consistent impacts	No Indentation/ Cracking	No Indentation/ Cracking
Surface Abrasion Resistance	As per Mfg	Class 3; Passed 600 Revolutions	Class 3; Passed 600 Revolutions
Moh's Hardness	As per Mfg	5-7	5-7
Frost Resistance (Visual defects after 100 freeze thaw tests)	No damage	No damage	No damage
Thermal Shock Resistance	No damage	No damage	No damage
Moisture Expansion	Max 0.6 mm/m	0.1 mm/m	0.1 mm/m
Thermal Expansion	Max 9.0x10 ⁻⁶	2.52x10 ⁻⁶	2.79x10 ⁻⁶
Crazing Resistance	As per Mfg	No crazing	No crazing
CHEMICAL PROPERTIES			
Chemical Resistance (Class A better than Class B and so on)(incl. Household Chemicals, Swimming pool salts, acids and Alkalis)	Min Class B	Class A	Class A
Stain Resistance (Class 2 better than Class 1 and so on) (Staining Agents: Light oil, Iodine Alcohol Solution and Olive oil)	Min Class 3	Min Class 5	Min Class 5
Lead Release	0.8 mg/dm ²	Not Detected	Not Detected
Cadmium Release	0.7 mg/dm ²	Not Detected	Not Detected
Fire Resistance	As per Mfg	Class A1	Class A1

Technical data above and parameters in the manual are only to show indicative values for product features.