

TECHNICAL SPECIFICATION SHEET

Lumiere 475 x 475



Standard Specifications Required	Colours		
Nominal Size		475 x 475 x 12	
Number of tiles per covered square metre		4.4	
Surface Finish		Polished Gloss Glaze	
Eureka classification		Dry Pressed Ceramic Tile	
Manufacturing Standard		ISO 13006:1998 Group B11a	
Deviation in Length and Width (ISO 10545-2)		± 0.6%	
Deviation in Thickness (ISO 10545-2)		± 5%	
Straightness of Sides (ISO 10545-2)		± 0.5%	
Rectangularity (ISO 10545-2)		± 0.6%	
Surface Flatness - Curvature (ISO 10545-2)		± 0.5%	
- Warpage (ISO 10545-2)		± 0.5%	
Surface Quality (ISO 10545-1)		95%	
Resistance to Thermal Shock (ISO 10545-9)		Resistant	
Crazing Resistance (Glazed Tiles Only) ISO 10545-11		Resistant	
Chemical Resistance (ISO 10545-13)		Resistant	
Frost Resistance (ISO 10545-12)		Resistant	
Determination of Moisture Expansion (ISO 10545-10)		See results below	
Water Absorption (ISO 10545-3)		3% - 6%	
Modulus of Rupture (ISO 10545-4)		22 Mpa Minimum	
Breaking Strength (ISO 10545-4)		1.0 kN Minimum	
Scratch Hardness - MOH's (BS6431 Part 13)		See results below	

SAMPLE RANGE RESULTS

Test / Method	Marrom	Brest	Rodin	Triomphe	
Water Absorption (ISO 10545-3)	5.3%	4.6%	5.6%	4.3%	
Modulus of Rupture (ISO 10545-4)	33.6Mpa	31.6Mpa	29.1Mpa	32.3Mpa	
Breaking Strength (ISO 10545-4)	3.18 kN	2.98 kN	2.59 kN	3.02kN	
Scratch Hardness – MOH's (BS6431 Part 13)	5	5	5	5	
Resistance to Surface Abrasion (ISO 10545-7)	3	4	3	3	
Moisture Expansion (ISO 10545-10)	0.087mm/M	0.063mm/M	0.085mm/M	0.053mm/M	
Resistance to Deep Abrasion (ISO 10545-6)	N/A	N/A	N/A	N/A	
Slip Resistance Classifications (AS/NZS 4586:1999)	Mean Range Result				
	• Appendix A: WET Pendulum (Four S)	Class Z	Class Z	Class Z	Class Z
	• Appendix B: DRY (FFT) - Tortus	Class F	Class F	Class F	Class F

SAMPLING: Sampling and the basis for acceptance complied with the requirements of ISO 10545-1.

COMPLIANCE: When tested according to the relevant method indicated in parenthesis, the above results all conform to the requirements of the Manufacturing Standard.

REMARKS ON SLIP RESISTANCE CLASSIFICATIONS (AS/NZS4586:1999): Tiles tested to AS/NZS 4586:1999 'Slip resistance classification of new pedestrian surface materials'. The slip resistance of a surface may change with use either becoming more slippery because of natural polishing, or less due to abrasion and roughening of the surface. The presence of dirt or contaminants may make surfaces more slippery, as can poor maintenance practices.

CLASSIFICATIONS: In order to interpret the classifications, please refer to Standards Australia Handbook 197 'An introductory guide to the slip resistance of pedestrian surface materials' which recommends minimum classifications for a wide variety of locations. It is important to realise that test results obtained on unused factory-fresh samples may not be directly applicable in service, where proprietary surface coatings, contamination, wear and subsequent cleaning all influence the behaviour of the pedestrian surface.

REMARKS ON THE MOISTURE EXPANSION OF CERAMIC TILES: The majority of glazed and unglazed tiles have negligible natural moisture expansion that does not contribute to tiling problems when tile are correctly fixed. However, with unsatisfactory fixing practices and in certain climatic conditions, natural moisture expansion may aggravate problems, especially when tiles are directly fixed to inadequately aged concrete substances. Source: ISO 10545-10.

NOTE: Regular Quality Control Audits ensure continuing compliance to the Standard although minor variations can occur in some values from batch to batch, within the allowable tolerances. These specifications will be re-issued if major variations occur, for example with the installation of new manufacturing equipment.