

TECHNICAL SPECIFICATION SHEET

Manhattan 600 x 300



	Colour 1	Colour 2	Colour 3	Colour 4		
Nominal Size	600 x 300 x 10					
Number of tiles per covered square metre	5.56					
Surface Finish	Matt Glazed					
Eureka classification	Dry Pressed Porcelain Tile					
Manufacturing Standard	ISO 13006 :1998 Group B1a					
Deviation in Length and Width (ISO 10545-2)	±0.6%					
Deviation in Thickness (ISO 10545-2)	± 5%					
Straightness of Sides (ISO 10545-2)	±0.50%					
Rectangularity (ISO 10545-2)	±0.60%					
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)	Test Method (See Below)					
Water Absorption (ISO 10545-3)	≤ 0.5%					
Modulus of Rupture (ISO 10545-4)	35 Mpa					
Breaking Strength (ISO 10545-4)	1.3 kN					
Scratch Hardness - MOH's (BS6431 Part 13)	See Below					

SAMPLE RANGE RESULTS

Test / Method	Belvedere	Broadway	Ramada	Clarion		
Water Absorption (ISO 10545-3)	0.1%	0.1%	0.1%	0.1%		
Modulus of Rupture (ISO 10545-4)	52.5Mpa	45.4Mpa	43.3Mpa	45.7Mpa		
Breaking Strength (ISO 10545-4)	3.57 kN	3.09 kN	2.89 kN	3.11 kN		
Scratch Hardness – MOH's (BS6431 Part 13)	9	9	9	9		
Resistance to Surface Abrasion (ISO 10545-7)	4	4	4	4		
Moisture Expansion % ISO 10545-10	0.006%	0.004%	0.005%	0.005%		
Slip Resistance Classifications (AS/NZS 4586:1999)	<i>Mean Range Result</i>					
♦ Appendix A: WET Pendulum (Four S)	Class X	Class Y	Class X	Class Y		
♦ 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 propriety 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.