

## **TEST REPORT**

(Report No.): 201001801432

Name of Sample	MVG619, MVG620, MVG621, MVG622	Received Date	2018/04/28		
Testing Category	See Below	Reported Date	2018/05/07		
Test Standard	ISO 13006:2012	Shape of Sample	75x3000x7mm		
Quantity of Sample	30				
Results of Inspection					

Test Item		Provisions of Standard	Test Results	Judgement	Test Method
Length		The deviation, in %, of the average size for each tile (2/4 sides) from the work size: ±0.5% (±2.0mm)	-0.2%~+0.2%	Passed	
Width		The deviation, in %, of the average size for each tile (2/4 sides) from the work size: ±0.75mm	+0.4mm~+0.7mm	Passed	ISO10545-2 1995
Thickness Deviation		The deviation, in %, of the average thickness of each tile from the work size: ±10% (±0.5mm)	-2.7%~+1.4%	Passed	
Straightness of sides		The maximum deviation from straightness, in %, related to the corresponding work sizes: ±0.3% (±1.5mm)	-0.1%~+0.1%	Passed	
Rectangularity		The maximum deviation from Rectangularity, in %, related to the corresponding work sizes: ±0.5% (±2.0mm)	-0.2%~+0.2%	Passed	
	Centre Curvature	Centre curvature, related to diagonal calculated from the work size: -0.3%~+0.5% (-1.5mm~2.0mm)	-0.1%~+0.2%	Passed	
Surface Flatness	Edge Curvature	Edge curvature, related to the corresponding work size: -0.3%~+0.5% (-1.5m~+2.0mm)	-0.2%~+0.3%	Passed	
	Warpage	Warpage, related to diagonal calculated from the work size: ±0.5% (± 2.0mm)	-0.1%~+0.3%	Passed	
Surface Quality		A minimum of 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of tiles.	Passed	Passed	
Water Absorption		Average: E>10% Individual minimum: 9%	Average: 16% Individual minimum: 17%	Passed	ISO10545-3 1995
Breaking Strength		Thickness<7.5mm,≥200N	522N	Passed	ISO10E4E 4 2014
Modulus of rupture		Thickness<7.5mm, ≥15Mpa	19Mpa	Passed	ISO10545-4 2014
Impact Resistance		Test Method Available	Average: 0.58	***	ISO10545-5 1996
Resistance to surface abrasion of glazed tiles		Report abrasion class & cycles passed	Class 3 at 750 revolutions	***	ISO10545-7 1996
Coefficient of linnear thermal expansion		Test Method Available	6.6x10 <sup>-6</sup> °C 6.7x10 <sup>-6</sup> °C	***	ISO10545-8 2014
Thermal shock resistance		Fully resistant	Fully Resistant	Passed	ISO10545-9 2004

## Important Notes:

The results in this report apply to the samples only.



Test Item	Provisions of Standard	Test Results	Judgement	Test Method	
Moisture Expansion	Test Method Available	Average:0.01%		ISO10545-10 1995	
Crazing Resistance	No craze on glazed surface	No Craze	Passed	ISO10545-11 1994	
Resistance to Frost	No crazing or peeling	No crazing or peeling	Passed	ISO10545-12 1995	
Resistance to low concentrations of acids and alkallis	Manufacturer to state classification	GLA			
Resistance to household chemi- cals and swimming pool salts	Minimum GB	GA	Passed	ISO10545-13 1995	
Resistance to staining	Minimum Class 3	Class 5	Passed	ISO10545-14 1995	

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