

TEST REPORT

No.: G16-WT7476EA

<b>Name of Sample</b>	MVG668, MVG672, MVG676, MVG680	<b>Received Date</b>	2016/09/21
<b>Quantity of Sample</b>	10 Pcs	<b>Reported Date</b>	2016/09/22 - 2016/10/13
<b>Test Basis</b>	GB/T4100-2015 (AnnexG) Ceramic Tiles Annex G Dry-pressed ceramic tiles with low water absorption $E \leq 0.5\%$ Group Bla; GB6566-2010 Limit of radionuclides in building materials.	<b>Characteristic</b>	Normal (Glazed)

No	Test Item	Units	Technical Requirements		Results	Verdict	
1	Size & Difference	%	Length	The deviation, of the average size for each tile from the working size	$\pm 0.6$	-0.04~+0.02	Pass
		mm			Maximum $\pm 2.0$	-0.5~+0.2	
		%	Width	The deviation, of the average size for each tile from the work size	$\pm 0.5$	-0.02~+0.03	
		mm			Maximum $\pm 2.0$	-0.1~+0.1	
		mm	Thickness	Worksize $\leq 13.5$		9.0	
		%			The deviation, of the average size for each tile from the work size	$\pm 10.0$	
mm	Maximum $\pm 0.5$						
2	Straightness of sides	%	$\pm 0.5$		-0.03~+0.05	Pass	
		mm	Maximum $\pm 0.5$		-0.03~+0.31		
3	Rectangularity	%	$\pm 0.5$		-0.05~+0.05	Pass	
		mm	Maximum $\pm 2.0$		-0.31~+0.33		
4	Surface Flatness	mm	Upward Warpage $\leq 2.0$		0.2	Pass	
			Downward Warpage $\leq 2.0$		0.3		
5	Surface Quality	-	A minimum of 95% of the tiles shall be free from chip, crack speck and visible defects that would impair the appearance of major area of tiles		Complied	Pass	
6	Water Absorption	%	Average Maximum 0.5		0.05	Pass	
			Individual Maximum 0.6		0.03~0.10		
7	Resistance to Thermal Shock	-	Report the test result after test		No Crack	-	
8	Mohs' hardness	-	According to JC/TT872-2000		8	-	
9	Surface Abrasion	-	Report abrasion class and cycles passed		750 cycles   Class 3	-	
10	Internal exposure index $I_{Ra}$ (decorative materials) External Exposure index $I_r$ (Decorative Materials)	-	Type A: $I_{Ra} \leq 1.0$		0.4	Type A	
			Type B: $I_{Ra} \leq 1.3$				
			TYPE A: $I_r \leq 1.3$		0.6		
			Type B: $I_r \leq 1.9$				
Type C: $I_r \leq 2.8$							
11	Breaking Strength	N	If thickness $\geq 7.5\text{mm}$ , $N \geq 1300$		2210	Pass	
12	Modulus of Rupture	MPA	Average $\geq 35$		38	Pass	
			Single Piece $\geq 32$		37~40		
13	Resistance to household chemical reagent & swimming pool alkali	-	No less than Class GB after Test		Class GA	Pass	
14	Cerficinet of static friction	-	Single Piece $\geq 0.50$		Dry   0.59	Pass	

Important Notes: The results in this report apply to the samples only.