## Test Report

YULONG CERAMI

Manufacturer P 4 15	Foshan Shiwan Yulong Cera	Report Number: 20160311					
Name of sample	Glazed mosaic	Nominal size (N)	2" hexagon (51x59mm hexagon)				
Naure of the surface	Glazed (GL)	Work size	51x59x5.9mm hexagon				
Group	B la	Intended use	Floorings and wall finishes, Interior and exterior				
Source of samples	our store	Mark of samples	HC6570				
Quantity of samples	2 carton (12sheets/ctn)	Date of sampling	March 01, 2016.				
Test classification	Regular test	Date of finish	March 11, 2016.				
Test Standard	EN 14411:2012 Ceramic tiles - Definitions, classification, characteristics, evaluation of conformity and marking Annex G Requirement for dry-pressed ceramic tiles with low water absorption of Group B I a (E <sub>b</sub> ≤						
Conclustion of Test	The results conform to the requirement of Annex G of standard EN1411:2012 with respect to the test items.						

Clause	Pi	roperties	Test Method	Requirements	Test Result	Verdicts		
Α	Dimensions and surface quality							
A.1	Length and width		EN ISO 10545-2	The deviation, in percent, of the average size for each tile (2 or 4 sides) from the work size: ±1.0%		Pass		
				The deviation, in percent, of the average size for each tile (2 or 4 sides) from the average size of the 10 test specimens (20 or 40 sides): ±0.5%	-0.15% ~+ 0.05%	Pass		
	Thickness	Average size	EN ISO 10545-2		5.9mm			
A.2		Deviation		The deviation, in percent, of the average thickness of each tile from the work size thickness: ±10%	-0.32% ~+ 0.33%	Pass		
A.3	Straightness	of sides	EN ISO 10545-2	The maximum deviation from straightness, in percent, related to the corresponding work size: ±0.5%	-0.15% ~+ 0.21%	Pass		
A.4	Rectangularity		EN ISO 10545-2	The maximum deviation from straightness, in percent, related to the corresponding work size: ±0.6%	-0.18% ~+ 0.25%	Pass		
A.5	Surface flatness	Center curvature	EN ISO 10545-2	Centre curvature, related to diagonal calculated from the work size: ±0.5%	-0.05% ~+ 0.14%	ditto		
		Edge curvature		Edge curvature, related to the correspongding work size: ±0.5%	-0.18% ~+ 0.22%	ditto		
		Warpage		Warpage, related to diagonal calculated from the work size: ±0.5%	-0.15% ~+ 0.06%	ditto		
A.6	Surface quality		EN ISO 10545-2	A minimun of 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of tiles	Pass	Pass		
В	Physical prop	perties				AH		
B. I	Water absorption Percent mass fraction		EN ISO 10545-3	E <sub>b</sub> ≤0.5%	0.11%	Pass		
				individual maximum 0.6%	0.09% ~ 0.13%	Pass		
B.2	Breaking strength, in N		EN ISO 10545-4	≥ 700	N/A			

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Clause	Properties	Test Method	Requirements	Test Result	Verdicts			
B.3	南山市石門公司人	ENISO	Mimimum 35	N/A				
	Modulus of rupture, in N/mm2	10545-4	Individual minimum 32	N/A -				
B.4	Abrasion resistance	EN ISO 10545-6	<175	131 ~ 139	Pass			
B.6	Thermal shock resistance	EN ISO 10545-9	Pass	Fully resistance	Pass			
B.8	Frost resistance	EN ISO 10545-12	Pass	Fully resistance	Pass			
B.9	Slipperiness	DIN51130	Declared value	a ges: 19.3°				
		DINJII30		Classification: R11	No has all			
B.14	Reaction to fire	CWT	Class A1 or A1 <sub>FL</sub>	Used for walls: Class A1 Used for floorings: Class A1 <sub>FL</sub>	Pass			
С	Chemical properties							
	Resistance to chemicals							
	Resistance to household chemicals and swimming pool salts							
	a) Household chemicals: Ammonium chloride, 100g/L	EN ISO 10545-13	Minimum class B	UA	Pass			
	b) Swimming pool salts: Sodium hypochlorite solution, 20mg/L	EN ISO 10545-13	Minimum class B	UA	Pass			
	Resistance to low concentrations of acids and alkalis							
C.2	a) Hydrochloric acid solution, 3% (v/v)	EN ISO 10545-13	Declared value	ULA				
	b) Citric acid solution, 100g/L	EN ISO 10545-13	Declared value	ULA				
	c) Potassium hydroxide, 30g/L	EN ISO 10545-13	Declared value	ULA				
	Resistance to high concentrations of acids and alkalis							
	a) Hydrochloric acid solution, 18% (v/v)	EN ISO 10545-13	Declared value	UHA	90 pa 10			
	b) Lactic acid, 5% (v/v)	EN ISO 10545-13	Declared value	UHA	+			
	c) Potassium hydroxide, 100g/L	EN ISO 10545-13	Declared value	UHA	****			

