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TEST REPORT

REPORT NO. : 25202203199

NAME OF SAMPLE: GLAZED PORCELAIN

APPLICANT: MAX GLORY INTERNATIONAL,. LTD

DATE OF TEST: 05/08/2022 – 20/08/2022 (dd/mm/yy)

STATE KEY TESTING LABORATORY OF BUILDING CERAMICS AND SANITARY WARE
INSPECTION AND QUARANTINE COMPREHENSIVE TECHNOLOGY CENTRE
OF FOSHAN ENTRY-EXIT INSPECTION & QUARANTINE BUREAU




**INSPECTION AND QUARANTINE COMPREHENSIVE TECHNOLOGY CENTRE OF
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Name of sample	GLAZED PORCELAIN	Nominal size (N)	60cm×60cm
Nature of the surface	Glazed (GL)	Work size (Sw)	600mm×600mm×9.4mm
Group	Group B I a, rectified tiles	Description of Samples	The samples are sound, intact and fit for test.
Mark of samples	STONE UNION	Quantity of samples	30 Pieces
Applicant	MAX GLORY INTERNATIONAL., LTD	Address of applicant	F12, Bldg 2, Country Garden, No. 129 North Lingnan Ave, Chancheng, Foshan, GD, China
Telephone of applicant		Fax of applicant	—
Source of Samples	Samples selected by applicant	Received on	02/08/2022
Test Standard	1.ISO 13006:2018 <i>Ceramic tiles – Definitions, classification, characteristics and marking</i> Annex G Dry-pressed ceramic tiles with low water absorption $E_b \leq 0,5\%$ Group B I a 2.EN 15771:2010 Vitreous and porcelain enamels - Determination of surface scratch hardness according to the Mohs scale 3.DIN 51130:2014 Testing of floor coverings – Determination of the anti-slip property – Workrooms and fields of activities with slip danger, walking method – Ramp test		
Conclusion of Test	1.The results conform to the requirement of Annex G of standard ISO 13006:2018 with respect to the test items. 2.The test results of scratch hardness of surface according to Mohs and Slip resistance see Page 6.		
Stamp of Test Unit	 <p>Date: 22/08/2022</p>	Address of Test Unit	Address : 2/F, Building 18, Lanshi International Metal Exchange Center, Kuiqiyi Road, Chancheng District, Foshan, Guangdong, China (528000) Tel: 86-757-83960558 86-757-83827991 Fax: 86-757-83827971 E-mail: fsiqtc@163.com url: http://www.fsiqtc.com/
Notes	1.All inspections are carried out conscientiously to the best of our knowledge and ability. This report does not in any respect absolve the other related parties from his contractual and legal obligations. 2.This report shall not be reproduced, except in full, without the prior written approval from the issuing laboratory. 3.The results in this report apply to the samples only.		

Tested by 杨明 Inspected by 李洪 Approved by 肖勇

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Photo of Samples



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ISO 13006:2018 <i>Ceramic tiles – Definitions, classification, characteristics and marking</i>						
Clause	Properties	Test Method	Requirements	Results	Verdicts	
Annex G Table G.1	Dimensions and surface quality					
	Length and Width The deviation,of the average size for each tile (4 sides) from the work size	ISO10545-2:2018	N≥15cm	±0.3%	-0.08%~-0.06%	P
				±1.0mm	-0.5mm~-0.4mm	P
	Thickness The deviation of the average thickness of each tile from the work size thickness	ISO10545-2:2018	N≥15cm	±5%	-0.6%~+1.2%	P
				±0.5mm	0~+0.1mm	P
	Straightness of sides The maximum deviation from straightness related to the corresponding work sizes	ISO10545-2:2018	N≥15cm	±0.3%	0~+0.02%	P
				±0.8mm	0~+0.1mm	P
	Rectangularity The maximum deviation from Rectangularity related to the corresponding work sizes	ISO10545-2:2018	N≥15cm	±0.3%	-0.05%~+0.08%	P
				±1.5mm	-0.3mm~+0.5mm	P
	Surface flatness: The maximum deviation from flatness					
	a) centre curvature, related to diagonal calculated from the work size;	ISO10545-2:2018	N≥15cm	±0.4%	+0.03%~+0.04%	P
				±1.8mm	+0.3mm~+0.4mm	P
	b) edge curvature, related to the corresponding work sizes;	ISO10545-2:2018	N≥15cm	±0.4%	+0.04%~+0.06%	P
				±1.8mm	+0.2mm~+0.3mm	P
	c) warpage, related to diagonal calculated from the work size.	ISO10545-2:2018	N≥15cm	±0.4%	-0.05%~-0.03%	P
				±1.8mm	-0.4mm~-0.2mm	P
	Surface quality	ISO10545-2:2018	A minimum of 95% of the tiles shall be free from visible defects inspected vertically at 1.0m.		100%	P
	Physical properties					
	Water absorption Percent mass fraction	ISO 10545-3:2018	$E_b \leq 0.5\%$		0.34%	P
			Individual maximum 0.6%		0.30%~0.37%	P
Breaking strength, in N	ISO 10545-4:2019	≥1300		1728	P	
Modulus of rupture, in N/mm² Not applicable to tiles with breaking strength ≥ 3000N	ISO 10545-4:2019	Minimum 35		39.9	P	
		Individual minimum 32		37.3~41.6	P	

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ISO 13006:2018 Ceramic tiles – Definitions, classification, characteristics and marking						
Clause	Properties	Test Method	Requirements	Results	Verdicts	
Annex G Table G.1	Impact resistance: Coefficient of restitution (COR)	ISO 10545-5:1996/Cor.1:1997	Test method available	0.88	—	
	Abrasion resistance Resistance to surface abrasion of glazed tiles intended for use on floors	ISO 10545-7:1996	Report abrasion class	Class 4	—	
			Report cycles passed	6000	—	
	Coefficient of linear thermal expansion: from ambient temperature to 100°C	ISO 10545-8:2014	Test method available	$6.0 \times 10^{-6} \text{C}^{-1}$	—	
	Thermal shock resistance	ISO 10545-9:2013	Test method available	Fully resistance	—	
	Moisture expansion, in mm/m	ISO 10545-10:1995	Test method available	<0.06	—	
	Crazing resistance: glazed tiles	ISO 10545-11:1994	Required	Fully resistance	P	
	Frost resistance	ISO 10545-12:1995/Cor1:1997	Required	Fully resistance	P	
	Chemical properties					
	Resistance to staining					
	a) Green staining agent in light oil	ISO 10545-14:2015	Minimum Class 3	Class 5	P	
	b) Red staining agent in light oil	ISO 10545-14:2015	Minimum Class 3	Class 5	P	
	c) Iodine, 13g/L solution in alcohol	ISO 10545-14:2015	Minimum Class 3	Class 5	P	
	d) Olive oil	ISO 10545-14:2015	Minimum Class 3	Class 5	P	
Chemical properties						
Resistance to chemicals						
Resistance to household chemicals and swimming pool salts						
a) Household chemicals: Ammonium chloride, 100g/L	ISO 10545-13:2016	Minimum B	A	P		
b) Swimming pool salts: Sodium hypochlorite solution, 20mg/L	ISO 10545-13:2016	Minimum B	A	P		
Resistance to low concentrations of acids and alkalis						
a) Hydrochloric acid solution, 3% (v/v)	ISO 10545-13:2016	Manufacturer to state classification	LA	—		
b) Citric acid solution, 100g/L	ISO 10545-13:2016	Manufacturer to state classification	LA	—		
c) Potassium hydroxide, 30g/L	ISO 10545-13:2016	Manufacturer to state classification	LA	—		

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ISO 13006:2018 <i>Ceramic tiles – Definitions, classification, characteristics and marking</i>					
Clause	Properties	Test Method	Requirements	Results	Verdicts
Annex G Table G1	Resistance to high concentrations of acids and alkalis				
	a) Hydrochloric acid solution, 18% (v/v)	ISO 10545-13:2016	Test method available	HA	—
	b) Lactic acid, 5 % (v/v)	ISO 10545-13:2016	Test method available	HA	—
	c) Potassium hydroxide, 100g/L	ISO 10545-13:2016	Test method available	HA	—
Possible test case verdicts 1. P(ass) : Test item does meet the requirement. 2. F(ail) : Test item does not meet the requirement. 3. —: Verdict was not carried out. 4. N/A : Test case does not apply to the test item.					

DIN 51130:2014 <i>Testing of floor coverings – Determination of the anti-slip property – Workrooms and fields of activities with slip danger, walking method – Ramp test</i>		
Properties	Method	Results
Slip resistance (Ramp test)	DIN 51130:2014	Mean overall acceptance angle:16.6° Slip resistance assessment group: R10

EN 15771:2010 <i>Vitreous and porcelain enamels - Determination of surface scratch hardness according to the Mohs scale</i>		
Properties	Method	Results
Scratch hardness of surface according to Mohs	EN 15771:2010	>7

报告结束 End of Test Report

