



中国认可  
国际互认  
检测  
TESTING  
CNAS L1978

# 检测报告

## TEST REPORT

报告编号:  
REPORT NO.: 25202404100

样品名称:  
NAME OF SAMPLE: 瓷质砖  
PORCELAIN TILE

委托单位:  
APPLICANT: 上海古早实业发展有限公司  
SHANGHAI GUZHAO INDUSTRIAL DEVELOPMENT CO LTD.

检测日期:  
DATE OF TEST: 22/11/2024 – 04/12/2024 (dd/mm/yy)

国家建筑卫生陶瓷检测重点实验室  
STATE KEY TESTING LABORATORY OF BUILDING CERAMICS AND SANITARY WARE  
佛山海关综合技术中心  
COMPREHENSIVE TECHNOLOGY CENTRE OF FOSHAN CUSTOMS





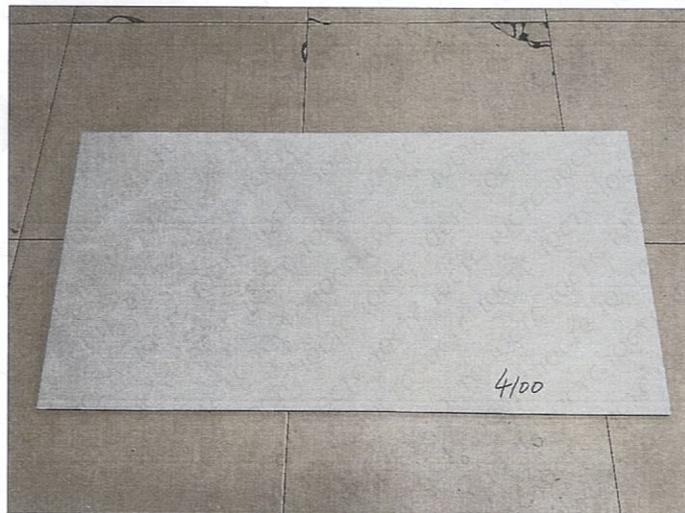
佛山海关综合技术中心  
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样品照片  
Photo of Samples



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ISO 13006:2018 <i>Ceramic tiles – Definitions, classification, characteristics and marking</i> Annex G Dry-pressed ceramic tiles with low water absorption $E_v \leq 0,5\%$ Group B I a						
条款 Clause	性能 Properties	检测方法 Test Method	要求 Requirements	检测结果 Results	判定 Verdicts	
表 G.1 Table G.1	<b>尺寸和表面质量</b> <b>Dimensions and surface quality</b>					
	<b>长度</b> <b>Length</b> 每块砖的平均尺寸相对于工作尺寸的允许偏差 The deviation, of the average size for each tile from the work size	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.3\%$	-0.02%	P
				$\pm 1.0\text{mm}$	-0.3mm~-0.2mm	P
	<b>宽度</b> <b>Width</b> 每块砖的平均尺寸相对于工作尺寸的允许偏差 The deviation, of the average size for each tile from the work size	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.3\%$	-0.04%~-0.02%	P
				$\pm 1.0\text{mm}$	-0.2mm~-0.1mm	P
	<b>厚度</b> <b>Thickness</b> 每块砖厚度的平均值相对于工作尺寸的最大允许偏差 The deviation of the average thickness of each tile from the work size thickness	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 5\%$	-1.1%~+0.2%	P
				$\pm 0.5\text{mm}$	-0.1mm~0	P
	<b>边直度</b> <b>Straightness of sides</b> 相对于工作尺寸的最大允许偏差 The maximum deviation from straightness related to the corresponding work sizes					
	<b>长度</b> Length	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.3\%$	0~+0.01%	P
				$\pm 0.8\text{mm}$	0~+0.1mm	P
	<b>宽度</b> Width	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.3\%$	-0.02%~-0.01%	P
				$\pm 0.8\text{mm}$	-0.1mm~0	P
	<b>直角度</b> <b>Rectangularity</b> 相对于工作尺寸的最大允许偏差 The maximum deviation from Rectangularity related to the corresponding work sizes					
	<b>长度</b> Length	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.3\%$	-0.03%~-0.02%	P
				$\pm 1.5\text{mm}$	-0.4mm~-0.2mm	P
	<b>宽度</b> Width	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.3\%$	+0.04%~+0.05%	P
				$\pm 1.5\text{mm}$	+0.2mm~+0.3mm	P

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ISO 13006:2018 Ceramic tiles – Definitions, classification, characteristics and marking Annex G Dry-pressed ceramic tiles with low water absorption $E_v \leq 0,5\%$ Group B I a						
条款 Clause	性能 Properties	检测方法 Test Method	要求 Requirements	检测结果 Results	判定 Verdicts	
表 G.1 Table G.1	表面平整度: 最大允许偏差 Surface flatness: The maximum deviation from flatness					
	a)对于由工作尺寸计算的对角线的中心 弯曲度 a)centre curvature, related to diagonal calculated from the work size;	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.4\%$	-0.06%~-0.05%	P
				$\pm 1.8\text{mm}$	-0.8mm~-0.7mm	P
	b)对于由工作尺寸计算的边弯曲度 b)edge curvature, related to the corresponding work sizes;					
	长度 Length	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.4\%$	+0.02%	P
				$\pm 1.8\text{mm}$	+0.2mm~+0.3mm	P
	宽度 Width	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.4\%$	-0.04%~-0.02%	P
				$\pm 1.8\text{mm}$	-0.2mm~-0.1mm	P
	c)对于由于工作尺寸计算的对角线的翘 曲度 c)warpage, related to diagonal calculated from the work size.	ISO 10545-2:2018	$N \geq 15\text{cm}$	$\pm 0.4\%$	-0.04%	P
				$\pm 1.8\text{mm}$	-0.6mm~-0.5mm	P
	表面质量 Surface quality	ISO 10545-2:2018	至少有 95%的砖其主要区 域无明显缺陷 A minimum of 95% of the tiles shall be free from visible defects inspected vertically at 1.0m.		100%	P
	物理性能 Physical properties					
吸水率 质量分数 Water absorption Percent mass fraction	ISO 10545-3:2018	$E_v \leq 0.5\%$		0.08%	P	
		单个值不大于 0.6% Individual maximum 0.6%		0.07%~0.09%	P	
破坏强度/N Breaking strength, in N	ISO 10545-4:2019	$\geq 1300$		2380	P	
断裂模数/(N/mm <sup>2</sup> ) Modulus of rupture, in N/mm <sup>2</sup> 不适用于破坏强度 $\geq 3000\text{N}$ 的陶瓷砖 Not applicable to tiles with breaking strength $\geq 3000\text{N}$	ISO 10545-4:2019	平均值 $\geq 35$ Minimum 35		54.7	P	
		单个值 $\geq 32$ Individual minimum 32		52.8~56.5	P	
耐磨性 Abrasion resistance 用于地面的有釉砖的表面耐磨性 Resistance to surface abrasion of glazed tiles intended for use on floors	ISO 10545-7:1996	报告耐磨级别 Report abrasion class		4 级 Class 4	—	
		报告耐磨转数 Report cycles passed		6000	—	
抗冲击: 恢复系数 Impact resistance: Coefficient of restitution (COR)	ISO 10545-5: 1996/Cor.1:1997	报告检测结果 Test method available		0.85	—	

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条款 Clause	性能 Properties	检测方法 Test Method	要求 Requirements	检测结果 Results	判定 Verdicts	
表 G.1 Table G.1	线性热膨胀系数: 室温~100°C Coefficient of linear thermal expansion: from ambient temperature to 100°C	ISO 10545-8:2014	报告检测结果 Test method available	$5.6 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$	—	
	抗热震性 Thermal shock resistance	ISO 10545-9:2013	报告检测结果 Test method available	样品经试验, 无炸裂或裂纹 Fully resistance	—	
	湿膨胀/(mm/m) Moisture expansion, in mm/m	ISO 10545-10:2021	报告检测结果 Test method available	<0.06	—	
	抗釉裂性: 有釉砖 Crazing resistance: glazed tiles	ISO 10545-11:1994	应通过此项测试 Required	样品经试验, 无裂纹或剥落 Fully resistance	P	
	抗冻性 Frost resistance	ISO 10545-12: 1995/Cor1:1997	应通过此项测试 Required	所有样品无裂纹或破损 Fully resistance	P	
	化学性能 Chemical properties					
	耐污染性 Resistance to staining					
	a)轻油中的铬绿 a)Green staining agent in light oil	ISO 10545-14:2015	不低于 3 级 Minimum Class 3	5 级 Class 5	P	
	b)轻油中的红色污染物 b)Red staining agent in light oil	ISO 10545-14:2015	不低于 3 级 Minimum Class 3	5 级 Class 5	P	
	c)13g/L 碘酒液 c)Iodine, 13g/L solution in alcohol	ISO 10545-14:2015	不低于 3 级 Minimum Class 3	5 级 Class 5	P	
	d)橄榄油 d)Olive oil	ISO 10545-14:2015	不低于 3 级 Minimum Class 3	5 级 Class 5	P	
	耐化学腐蚀性 Resistance to chemicals					
	耐家庭化学试剂和游泳池盐类 Resistance to household chemicals and swimming pool salts					
	a)家庭化学试剂: 氯化铵溶液, 100g/L a)Household chemicals: Ammonium chloride, 100g/L	ISO 10545-13:2016	不低于 B Minimum B	A	P	
	b)游泳池盐类: 次氯酸钠溶液, 20mg/L b)Swimming pool salts: Sodium hypochlorite solution, 20mg/L	ISO 10545-13:2016	不低于 B Minimum B	A	P	
耐低浓度酸和碱 Resistance to low concentrations of acids and alkalis						
a)3%盐酸溶液(v/v) a)Hydrochloric acid solution, 3% (v/v)	ISO 10545-13:2016	制造商应声明等级 Manufacturer to state classification	LA	—		
b)柠檬酸溶液, 100g/L b)Citric acid solution, 100g/L	ISO 10545-13:2016	制造商应声明等级 Manufacturer to state classification	LA	—		
c)氢氧化钾溶液, 30g/L c)Potassium hydroxide, 30g/L	ISO 10545-13:2016	制造商应声明等级 Manufacturer to state classification	LA	—		

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条款 Clause	性能 Properties	检测方法 Test Method	要求 Requirements	检测结果 Results	判定 Verdicts	
表 G.1 Table G.1	耐高浓度酸和碱 Resistance to high concentrations of acids and alkalis					
	a)18%盐酸溶液(v/v) a)Hydrochloric acid solution, 18% (v/v)	ISO 10545-13:2016	报告检测结果 Test method available	HA		
	b)5%乳酸溶液(v/v) b)Lactic acid, 5% (v/v)	ISO 10545-13:2016	报告检测结果 Test method available	HA		
	c)氢氧化钾溶液, 100g/L c)Potassium hydroxide, 100g/L	ISO 10545-13:2016	报告检测结果 Test method available	HA		
	铅镉溶出量 Lead and Cadmium release					
	a)铅溶出量/(mg/dm <sup>2</sup> ) a)Lead release, in mg/dm <sup>2</sup>	ISO 10545-15:2021	报告检测结果 Test method available	<0.02		—
	b)镉溶出量/(mg/dm <sup>2</sup> ) b)Cadmium release, in mg/dm <sup>2</sup>	ISO 10545-15:2021	报告检测结果 Test method available	<0.003		—

AS 4586-2013/Amdt 1-2017 Slip resistance classification of new pedestrian surface materials		
检验项目 Test Item	检验方法 Test Method	检验结果 Test Result
防滑性能, 摆锤法, 湿法, Slider 96 Slip resistance, Wet pendulum test method, Slider 96	AS 4586-2013/Amdt 1-2017 Appendix A 附录 A	SRV: 49 类别 Class: P4

用语说明 Possible test case verdicts

1. P(ass): 合格 Test item does meet the requirement.
2. F(ail): 不合格 Test item does not meet the requirement.
3. —: 未进行判定 Verdict was not carried out.
4. N/A: 不适用 Test case does not apply to the test item.

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报告结束 End of Test Report