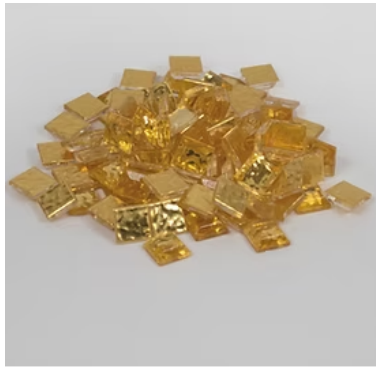


TECHNICAL DATA FOR CHINESE GOLD AND SILVER TILES

- Bevelled tiles only



Plain bevelled real gold 10 x
10mm



Rippled bevelled real gold 10 x
10mm



Plain bevelled real silver 10 x
10mm



Rippled bevelled real silver 10 x
10mm

NB that in these tiles the gold or silver foil layer is sandwiched between two layers of glass.

The top layer of glass is very thin, so that the shiny metal appears to be on top (and, in fact, these are slightly misleadingly known as 'surface gold' tiles). In reality, the foil is protected by an invisibly thin but durable layer of glass. The bottom layer of glass is much thicker and is under the foil. You can choose to use these tiles either way up, but they will be more durable if the thicker glass is on top.

Confirmation certificate for gold purity

This information is not published with a full English translation, but you can see that the gold content is certified as being 98%.

GDTC 广东省金银珠宝检测中心 广东省质量监督金银珠宝检验站 Guangdong jewelry testing center Guangdong jewelry quality supervision station		MA 20121905242 CNAS 20121905242 CNAS L2057	
检验报告 Test Report			
编号(NO.): 611471411		共 1 页 第 1 页	
来样名称 Name Sample	GRS01G箔片 Foil	原样编号 Original Number	---
委托单位 Applicant	广东开平市玫瑰艺术马赛克有限公司 Rose Art Mosaic Co., Ltd	来样批号 Sample Batch Number	611471411
受检单位 Inspected Unit	---	抽样地点 Sampling Site	---
货源单位 Manufacturer	---	来样数量 Sample Quantity	IPC
来样方式 Sampling Method	送样 Submit	抽样基数 Population	---
检验类别 Test Type	委托检验 Entrust test	来样日期 Application Date	2014年04月28日
样品状态 State Of Sample	---	生产日期 Production Date	---
检验项目 Test Item	含金量 Gold content		
检验依据 Testing Criteria	GB/T 18043-2013		
检验结果 (Test Conclusion)			
1. 6114722513 箔片 长×宽: 11×11cm, 含金量: 981‰. Foil Length × width: 11×11cm, gold content is 981‰.			
以下空白			
			
备注 (Remarks)			
样品不均匀 (The sample is uneven).			
批准: Approver:		审核: Inspector:	
		检验: Tester:	
附注: 本报告只对所送样品负责, 如有异议, 请于十五天内向本中心提出, 过期不予受理。 Attention: This report is only responsible for the originals. The dissidence must be submitted in 15 days since receiving the report. The altered report is invalid.			
GDTC		网址: www.gold.gd.cn/gdgc	
地址: 广州市农林下路81号之三楼层大厦 Add: NO.81 Nonglinxia Road, Guangzhou		电话: 020-87301500 87303090 邮编: 510080 Tel: 020-87301500 87303090 P.C: 510080	

Technical test results

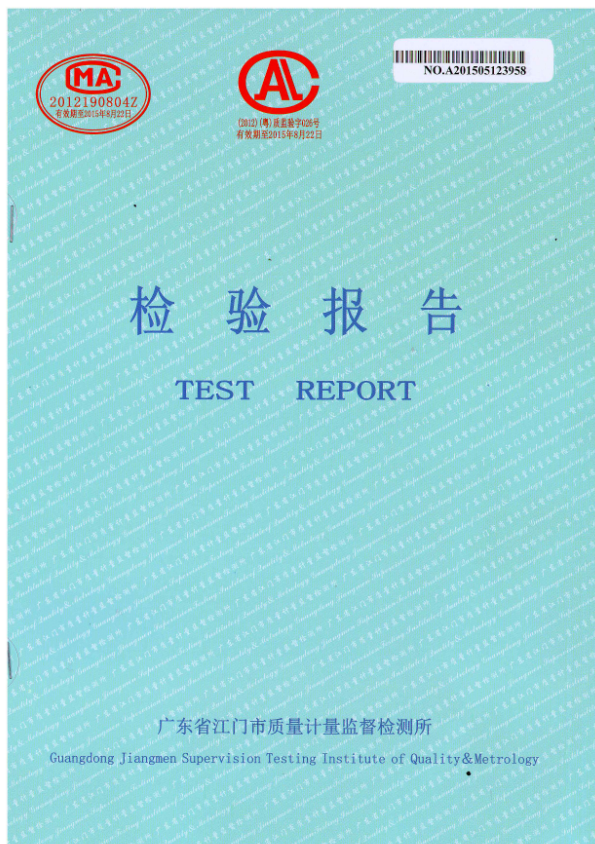
The gold tiles have been tested against two national Chinese standards

GB/T 7696-1996 and GB 6566-2010

These standards are very similar to UK tests, and assess the following:

- that the tiles are the dimensions they are meant to be
- that their appearance is adequate (in terms of blemishes, slants, bubbles etc
- that colour is uniform
- adhesive fastness (regarding the backing material)
- thermo-stability (by cycling through rapid heating/cooling)
- chemical stability (by testing with acids and alkalis)
- radioactivity
- strength of the bonds between the gold/silver foil and the layers of glass within which they are sandwiched.

The tiles pass all the checks. Details can be seen on the following pages. The only issue which might concern us is that the thermo-stability tests are not carried out at cold temperatures.





Guangdong Jiangmen Supervision Testing Institute of Quality & Metrology
Test Report

Page 1 Of 4

Name of samples (Type, Specification, Brand, Grade)	Gold flake-flecked glass mosaic 327mm×327mm/block 20mm×20mm/piece GBS01G ROSE	Production Date	2015-05-15
		Serial No. of sample	—
		Voucher No.	543418-1
Inspected Entity	—	Test Type	Commission
Manufacturer	Rose Art Mosaic Co., Ltd	Sample Quantity	20 block
Consignor	Rose Art Mosaic Co., Ltd	Sampling Base	—
Sampling Place	—	Date of sampling/receiving	2015-05-22
Way of incoming sample/ Person of sampling/sending	Sending by Lin Shengnian	Date Tested	2015-05-28
Test Standards	GB/T 7697-1996 《Glass mosaic》 GB 6566-2010 《Limits of radionuclides in building materials》 *Enterprise technological requirements.		
Test Conclusion	Totally 6 items are tested for the sample. The result of The interlayers bond strength of the glass mosaic is actually measured value, and other test items conform to the requirements of test standards (please refer to next page).		
Remark	1. The consignor provided: ① the manufacturer; ② production date. 2. The inspection item specified by the consignor. 3. The name of the enterprise technological requirements is The interlayers bond strength of the glass mosaic		

Approved by:

Checked by:

Tested by:

☐ Senior Engineer
☒ Engineer

Note: 1. The report is invalid without Dedicated Testing Seal. The report is invalid without all signatures of the main inspector, the checker and the approver. The report is invalid if altered. The report copy is invalid without the validation seal of the Institute.

2. In the case of commission test, the institute is only responsible for the tested sample. The institute is not responsible for the authenticity of the information in Remark column claimed by the consignor.

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Post code: 529000 Tel: (0750) 3286163, 3286165 Fax: (0750) 3286163



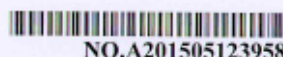
NO.A201505123958

Guangdong Jiangmen Supervision Testing Institute of Quality & Metrology

Test Report

Page 2 Of 4

No.	Test Item	Unit	Technical Requirement of Standards		Test Result	Conclusion
1	Dimension deviation	mm	Length of side: ± 0.5		-0.3~+0.3	Qualified
			Thickness: ± 0.4		-0.3~+0.3	
			Total length: ± 2		-1.0~+1.0	
			Gap: ± 0.6		-0.4~+0.4	
			Periphery distance: 1~8		2.0~7.5	
2	Appearance quality	mm	Deformation	Depression: ≤ 0.3	0~0.19	Qualified
				Bending: ≤ 0.5	0.04~0.39	
			Side defect	Length: ≤ 4.0	Conform	
				Width: ≤ 2.0	Conform	
			Angle defect length: ≤ 4.0		Conform	
		—	Flaw: Not allowed		No flaw	
			Blemish: Not obvious		Conform	
			Wrinkle: Not concentrated		Conform	
		mm	Open bubble	Length: ≤ 2.0 Width: ≤ 0.1	Conform	
3	Color and sheen	—	Basically uniform		Conform	Qualified
4	Physical and chemical performance	—	Adhesive fastness between glass mosaic and paving paper: Roll inward one block of mosaic from the paving paper to form a tube, and then flatten it; the paving paper should not be off after repeating the above test three times.		Not off	Qualified
		%	Time for paper peeling off	Any mosaic should not peel off after soaking 5min.	Not off	
				More than 70% mosaics should peel off after soaking 40min.	100	
		—	Thermo-stability: 90℃ → 18~25℃ 30min 10min 3 cycles		No flaw and breakage	
		%	Chemical stability	HCl solution (1 mol/L): keep 100℃ after 4h, weight change rate $K \geq 99.90$	99.93	
				H ₂ SO ₄ solution (1 mol/L): keep 100℃ after 4h, weight change rate $K \geq 99.93$	99.98	



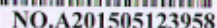
Guangdong Jiangmen Supervision Testing Institute of Quality & Metrology
Test Report

Page 3 Of 4

No.	Test Item	Unit	Technical Requirement of Standards		Test Result	Conclusion
			NaOH solution (1 mol/L)	keep 100℃ after 1h ,weight change rate K ≥ 99.88	99.96	
			Distilled water	keep 100℃ after 4h ,weight change rate K ≥ 99.96	99.99	
5	Radionuclides	Bq • kg ⁻¹	Ra-226 specific activity C _{Ra}		75.93	Conform type A
			Th-232 specific activity C _{Th}		66.41	
			K-40specific activity C _K		500.85	
		—	Internal exposure index	type A I _{Ra} : ≤ 1.0	0.3	
				type B I _{Ra} : ≤ 1.3		
				type C: Do not meet the requirements of type A and B decoration materials.		
		—	External exposure index	type A I _e : ≤ 1.3	0.5	
				type B I _e : ≤ 1.9		
				type C I _e : ≤ 2.8		
6	The interlayers bond strength of the glass mosaic	—	Prepare 5 samples. Paste one side of the sample on the up-fixture and the other side on the down-fixture with epoxy resin. Remove the overflowing epoxy resin. After 72 h's standing, the fixtures install on the Materials Testing Machine .Pull the samples to vertical direction along the surface in 5mm/min .Record the max strength of extension and record the condition of the sample (broken or intact).		1# 6.31MPa Intact	—
					2# 5.77MPa Intact	
					3# 6.15MPa Intact	
					4# 6.21MPa Intact	
					5# 5.98MPa Intact	

ANNOTATIONS:

- Test address (if different from the address mentioned above): _____
- Address of the Client: 50 Xingdi Rd,Xinchang,Kaiping Guangdong,China. Postalcode: _____
- Environment for Test: temperature 25℃~30℃, relative humidity 80%~90%,
- Sampling procedure (if applicable): _____
- Sample property and state: perfect and normal.
- Explanation for deviation the standard (if applicable): _____
- Explanation for undefined difference of result (if applicable): _____
- Contracted item and contractor (if applicable): _____
- If there is any objection concerning the report, it is required that the objection should be tell us within 15 days



五、五、五

after got the report.

10. The symbol “/” in Test Result represents that the item is not being tested. The symbol “—” in Test Result represents inapplicability.
11. The Test Standard with the symbol “*” without qualification and accreditation.
12. The test report is translated from the Chinese version test report No. A201505123917. In case of divergence, the Chinese version shall be regarded as authentic.



NO.A201505123950

Guangdong Jiangmen Supervision Testing Institute of Quality & Metrology

Test Report

Page 1 Of 4

Name of samples (Type, Specification, Brand, Grade)	Gold flake-flecked glass mosaic 327mm×327mm/block 20mm×20mm/piece GN01G ROSE	Production Date	2015-05-16
		Serial No. of sample	—
		Voucher No.	543418-2
Inspected Entity	—	Test Type	Commission
Manufacturer	Rose Art Mosaic Co., Ltd	Sample Quantity	20 block
Consignor	Rose Art Mosaic Co., Ltd	Sampling Base	—
Sampling Place	—	Date of sampling/receiving	2015-05-22
Way of incoming sample/ Person of sampling/sending	Sending by Lin Shengnian	Date Tested	2015-05-28
Test Standards	GB/T 7697-1996 《Glass mosaic》 GB 6566-2010 《Limits of radionuclides in building materials》 *Enterprise technological requirements.		
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Approved by:

☐ Senior Engineer
☒ Engineer

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