



# BARID

Cool Tiles from **Al Maha**

**Al Maha**  
CERAMICS & PORCELAIN



**المها**  
للسيراميك و البورسلين



## EXTREME WEATHER CONDITION IN GCC WITH HIGH TEMPERATURE

- The radiations and heat of sunlight rapidly increases the temperature
- The heat penetration results in temperature increase indoors causing discomfort
- Resulting higher energy to cool down

## حالة الطقس الغير مُطابقة مع ارتفاع في درجات الحرارة في دول مجلس التعاون الخليجي

- تزيد الأشعات و ضوء الشمس من درجة الحرارة بسرعة
- تتغلغل الحرارة وتؤدي الى ارتفاع درجة الحرارة داخل المنازل مما يسبب عدم الارتياح
- مما ينتج عنه زيادة في استهلاك الكهرباء لتخفيض درجة الحرارة

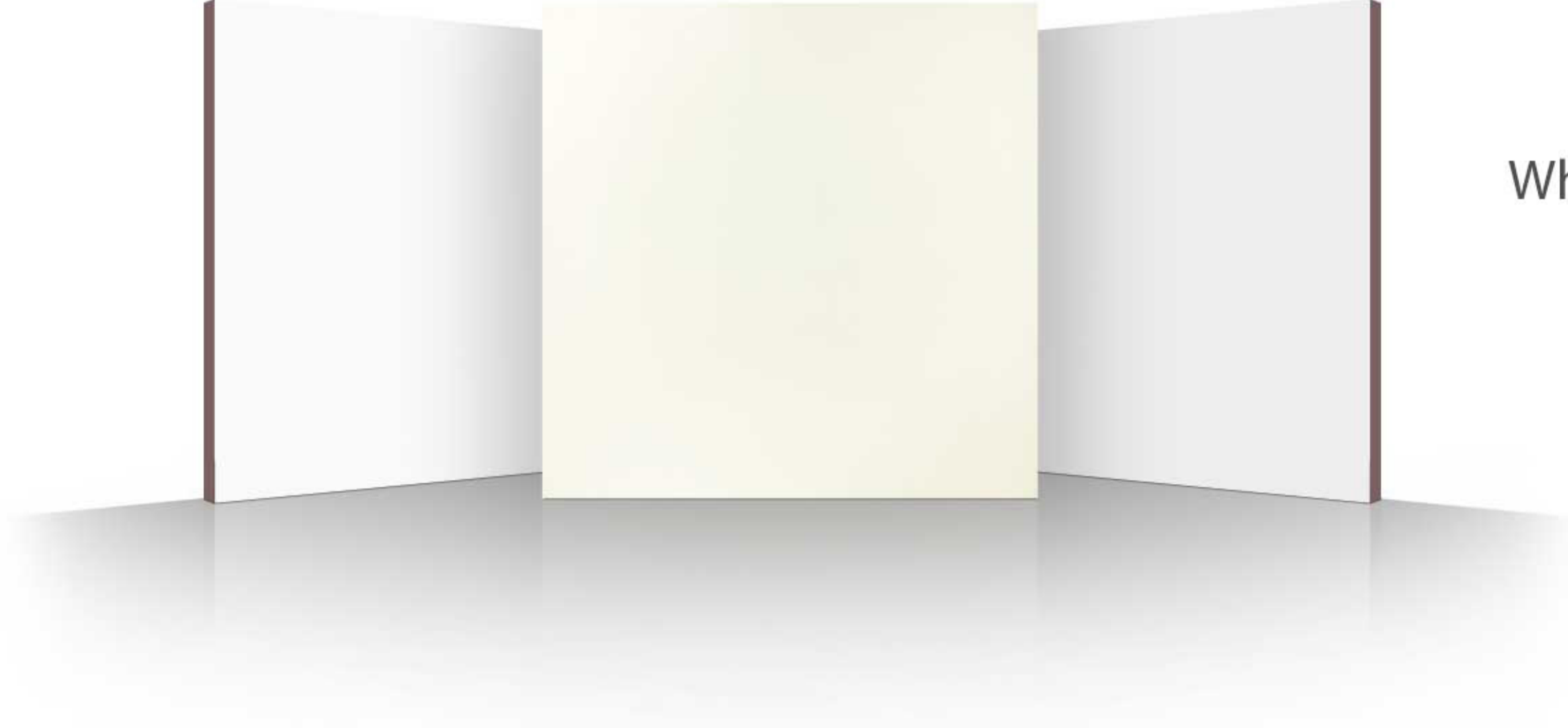
Save Electricity  
يوفر الكهرباء  
Provides Comfort  
يعطي الراحة  
Cool Indoors & Outdoors  
يُبرد داخليا وخارجيا

Confirms ASTM C 1549  
يتطابق مع الجمعية الأمريكية للاختبارات والمواد سي ١٥٤٩  
ASTM C 1371  
والجمعية الأمريكية للاختبارات والمواد سي ١٣٧١  
ASTM E 1980:1  
و الجمعية الأمريكية للاختبارات والمواد إي ١٩٨٠:١



بلاط البارد  
BARID COOL TILES  
SRI~110

## BARID NORMAL TILE



50X50X0.95 cm  
White, Cream, Grey Color  
Rectified Tiles  
Easy Cleaning  
Water Resistant

## BARID THICK TILE



50X50X1.4 cm  
Different Designs

**Solar Reflective Index of Approximately 110**  
More Reflection Means Cooler Surface By 20%



مؤشر انعكاس شمسي بحوالي ١١٠  
انعكاس أكثر يعني سطح أبرد بت ٢٠%

**High Opacity Levels of 95%**  
Pure White Premium Look



مستويات العتامة العليا ٩٥%  
منظر أبيض نقي ممتاز

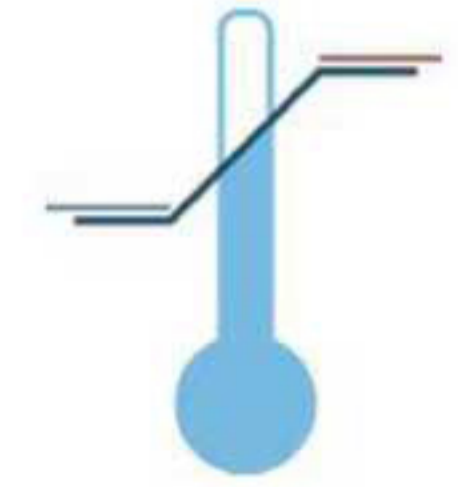
### BARID COOL TILES FEATURES

**Solar Radiation Absorption is 50% Less**  
Less Absorption Means Cooler Surface By 20%



امتصاص الإشعاع الشمسي أقل ٥٠%  
امتصاص لأقل يعني الأسطح أبرد بت ٢٠%

**Thermal Comfort at Rooftops & Facades**  
Better Energy Efficiency By 11-20%



راحة حرارية في أعلي الأسطح والواجهات  
كفاءة الطاقة أفضل بت ٢٠-١١%

سمات  
بلاط  
البارد

SRI~90



CONVENTIONAL TILES / بلاط التقليدي



## ENHANCED SOLAR REFLECTION WITH HIGH SRI

This special glaze developed by Al Maha Research & Development team provides Solar Reflective Index (SRI) of approximately 110.

## الإنعكاس الشمسي المعزز مع مؤشر الإنعكاس الشمسي العالي

يوفر هذا التزجج المطور من قبل فريق  
المها لأبحاث والتطوير مؤشر الإنعكاس  
الشمسي (اس ار أي) بحوالي 110.



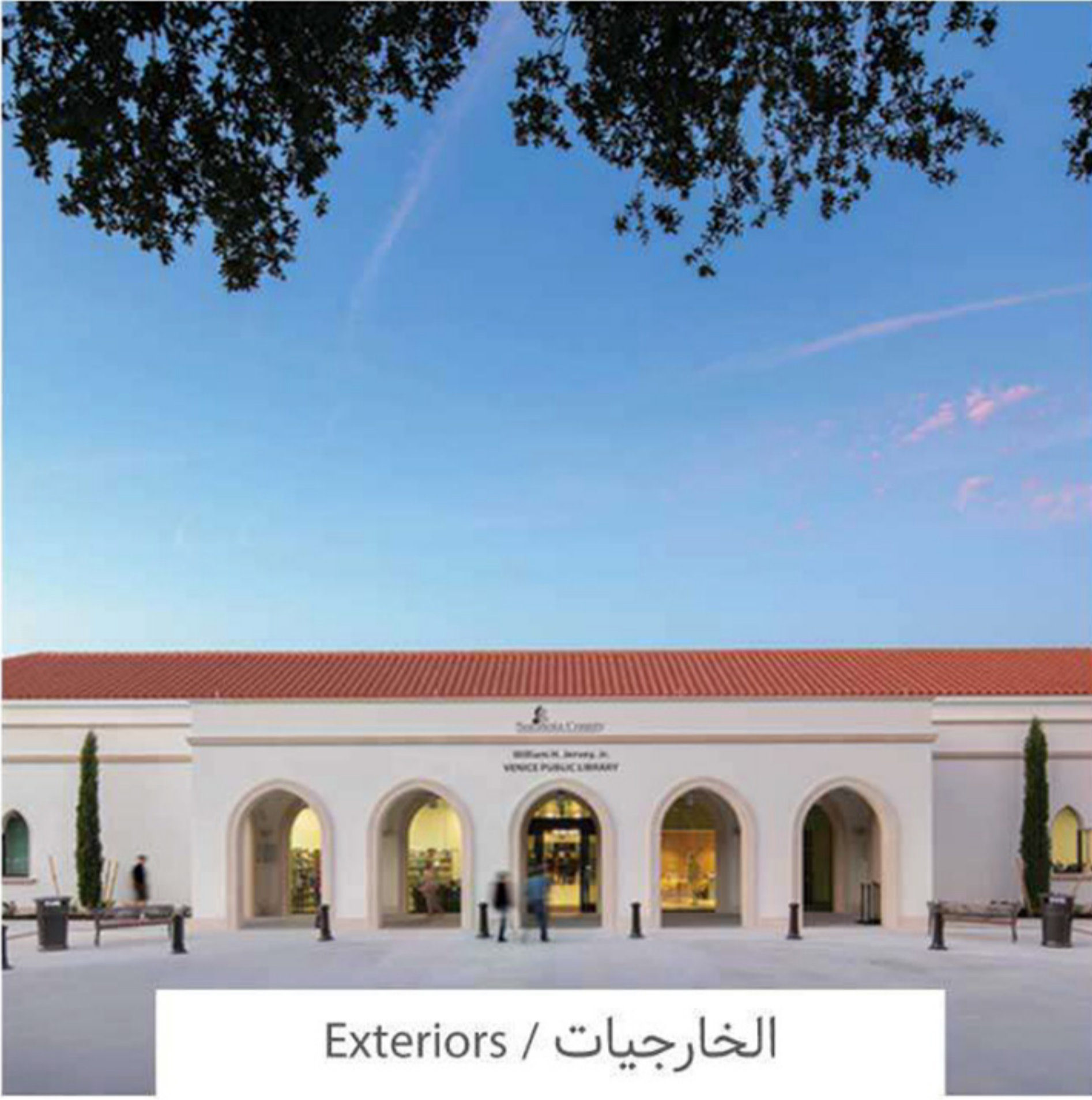
Balcony / شرفة



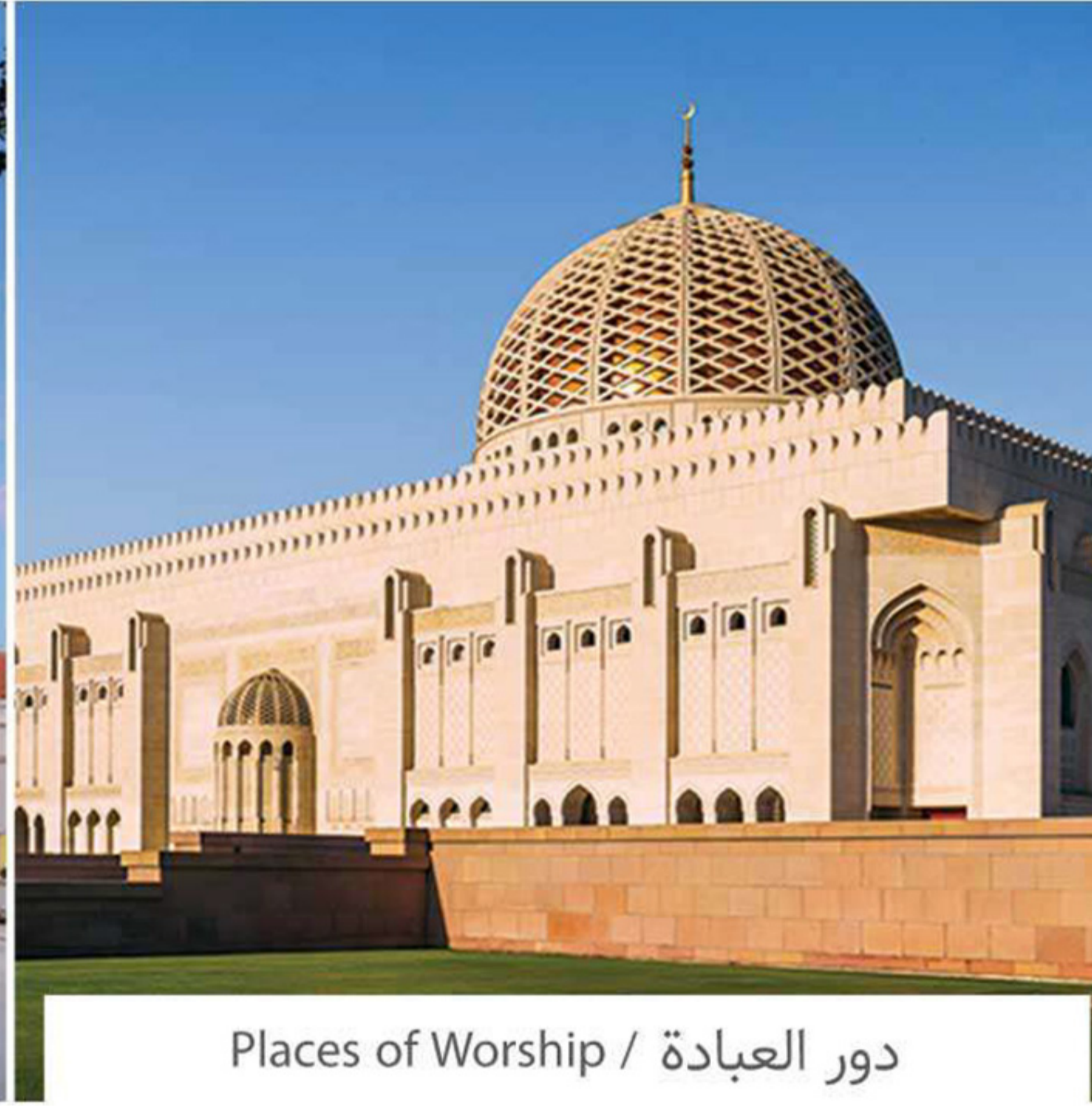
Swimming Pool Areas / منطقة حمام السباحة



Facades / واجهات



Exteriors / الخارجيات



Places of Worship / دور العبادة

## EXTREME HEAT OUTSIDE

The radiations and heat of sunlight rapidly increases the temperature of the layers that the radiations penetrate through. Heat develops discomfort to people, and consumes higher energy to cool down.

## الحرارة الشديدة بالخارج

تزيد الأشعة وحرارة ضوء الشمس درجة حرارة الطبقات بسرعة التي تخترقها الأشعة وتسبب الحرارة انزعاجا للناس، و تستهلك طاقة أعلى لكي تبرد.



Rooftops / أسطح المنازل

## TECHNICAL SPECIFICATIONS

### DRY PRESSED CERAMIC TILES GROUP BIII : ISO 13006 :2018 E

Test Method	NOMINAL SIZE		500x500 mm	
	WORK SIZE (RECTIFIED)	Group BIII	500X500X9.5 MM	
ISO 10545-2	Length (mm)	± 0.30 %	Min 499.00	Max 501.00
	Width (mm)	± 0.60 %	Min 499.00	Max 501.00
	Thickness (mm)	± 10 %	Min 9.00	Max 10.00
			<b>AL MAHA</b>	
	Straightness of sides (mm)	± 0.30 %	± 0.50	± 0.80
	Rectangularity (mm)	± 0.30 %	± 1.00	± 1.50
	Surface Flatness in %			
	Center Curvature (mm)	± 0.40 %	1.4	± 1.8
			-0.8	
	Edge Curvature (mm)	± 0.40 %	1.4	± 1.8
			-0.8	
Warpage (mm)	± 0.40 %	1.4	± 1.8	
		-0.8		
	A Minimum of 95% of tiles are to be free from visible defects	Min 95%	Min 95%	
ISO 10545-3	Water absorption %	> 10	10% to 13%	
ISO 10545-4	Modulus of Rupture in newton's /square mm(MOR)	Min 12 N(120kg)	Min 25 N(Min:250kg)	
ISO 10545-7	Abrasion Resistance	Abrasion class & cycle passed	Class 4	
ISO 10545-9	Thermal Shock resistance	No visible defects	No visible defects	
ISO 10545-11	Crazing Resistance	Required	Passes	
ISO 10545-13	Resistance to Chemicals (House Hold Chemicals & swimming pool salts)	Min Class B	Min Class B	
ISO 10545-14	Resistance to Staining	Min Class 3	Min Class 3	

**USAGES: MAINLY IN BUILDING ROOFS / TERRACE, BALCONIES, EXTERIOR FACADES CLADDING, PAVEMENTS etc..**

## PACKING SPECIFICATIONS

DESCRIPTION	UNIT	
		DE 500X500X9.5 MM BARID
Average Weight / Tile	Kgs	4.565
Tiles / Box	No.s	9
Quantity / Box	Sq. M	2.25
Weight / Box	Kgs	41.09
Boxes / Pallet	No.s	48
Quantity / Pallet	Sq. M	108
Weight / Pallet (Net Wt.)	Kgs	1972.08
Weight / Pallet (Gross Wt.)	Kgs	1988
<b>Wt / sqm</b>	<b>Kgs</b>	<b>18.260</b>

## TECHNICAL SPECIFICATIONS

### DRY PRESSED CERAMIC TILES GROUP BIII : ISO 13006 :2018 E

Test Method	NOMINAL SIZE		500x500 mm	
	WORK SIZE (NON-RECTIFIED)	Group BIII	500X500X14 MM	
ISO 10545-2	Length (mm)	± 0.60 %	Min 499.00	Max 505.00
	Width (mm)	± 0.60 %	Min 499.00	Max 505.00
	Thickness (mm)	± 10 %	Min 12.60	Max 15.40
			<b>AL MAHA</b>	
	Straightness of sides (mm)	± 0.50 %	± 1.40	± 2.50
	Rectangularity (mm)	± 0.50 %	± 1.40	± 2.50
	Surface Flatness in %			
	Center Curvature (mm)	± 0.50 %	1.40	± 3.53
			-0.60	
	Edge Curvature (mm)	± 0.50 %	1.40	± 2.50
			-0.60	
	Warpage (mm)	± 0.50 %	1.40	± 3.53
		-0.60		
	A Minimum of 95% of tiles are to be free from visible defects	Min 95%	Min 95%	
ISO 10545-3	Water absorption %	> 10	> 10	
ISO 10545-4	Modulus of Rupture in newton's /square mm(MOR)	Min 12 N(120kg)	Min 20 N(Min:200kg)	
ISO 10545-7	Abrasion Resistance	Abrasion class & cycle passed	Class 4	
ISO 10545-9	Thermal Shock resistance	No visible defects	No visible defects	
ISO 10545-11	Crazing Resistance	Required	Passes	
ISO 10545-13	Resistance to Chemicals (House Hold Chemicals & swimming pool salts)	Min Class B	Min Class B	
ISO 10545-14	Resistance to Staining	Min Class 3	Min Class 3	

**USAGES:** MAINLY IN BUILDING ROOFS / TERRACE, BALCONIES, EXTERIOR FACADES CLADDING, PAVEMENTS etc..

## PACKING SPECIFICATIONS

DESCRIPTION	UNIT	
		TICK TILE 500X500X14 MM BARID
Average Weight / Tile	Kgs	6.120
Tiles / Box	No.s	6
Quantity / Box	Sq. M	1.5
Weight / Box	Kgs	36.72
Boxes / Pallet	No.s	48
Quantity / Pallet	Sq. M	72
Weight / Pallet (Net Wt.)	Kgs	1762.56
Weight / Pallet (Gross Wt.)	Kgs	1779.84
<b>Wt / sqm</b>	<b>Kgs</b>	<b>24.48</b>



مختبرات ويمبي ش.ذ.م.م.  
WIMPEY LABORATORIES L.L.C.



## LABORATORY REPORT

Al Maha Ceramics SAOG  
P.O. Box 482,  
Sohar, Sultanate of Oman

Report No: WD-R-240710-1057  
Sample No: WD-S-240710-1002  
Date of Report: 17/07/2024

**Introduction:** Further to the request received from **M/s. Al Maha Ceramics SAOG** dated 10<sup>th</sup> July 2024, the sample of Tile was tested for the parameters below and the results are as follows.

Sample Type : Tile  
Request No. : WD-Q-240710-0306  
Sample Date Received : 10/07/2024  
Date of Test : 10/07/2024-17/07/2024  
Tested By : AY

### General Information

Name of the Product : DE500x500 mm Al Maha Barid

### Solar Reflectance Index (SRI)

#### Test methods

Emissivity : ASTM C 1371  
Solar reflectance : ASTM C 1549  
SRI for wind condition (Low, Medium, High) : ASTM E 1980:01

Condition	Low wind (0-2 m/s)	Medium wind (2-6 m/s)	High wind (6-30 m/s)
Convective coefficient, (W/(m <sup>2</sup> K))	5.0	12.0	30.0
Roof surface temperature (°C)	49.4	44.4	40.6
<b>Solar reflectance index, SRI</b>	<b>100</b>	<b>101</b>	<b>101</b>

Remarks: None

Signed for and on behalf of Wimpey Laboratories LLC

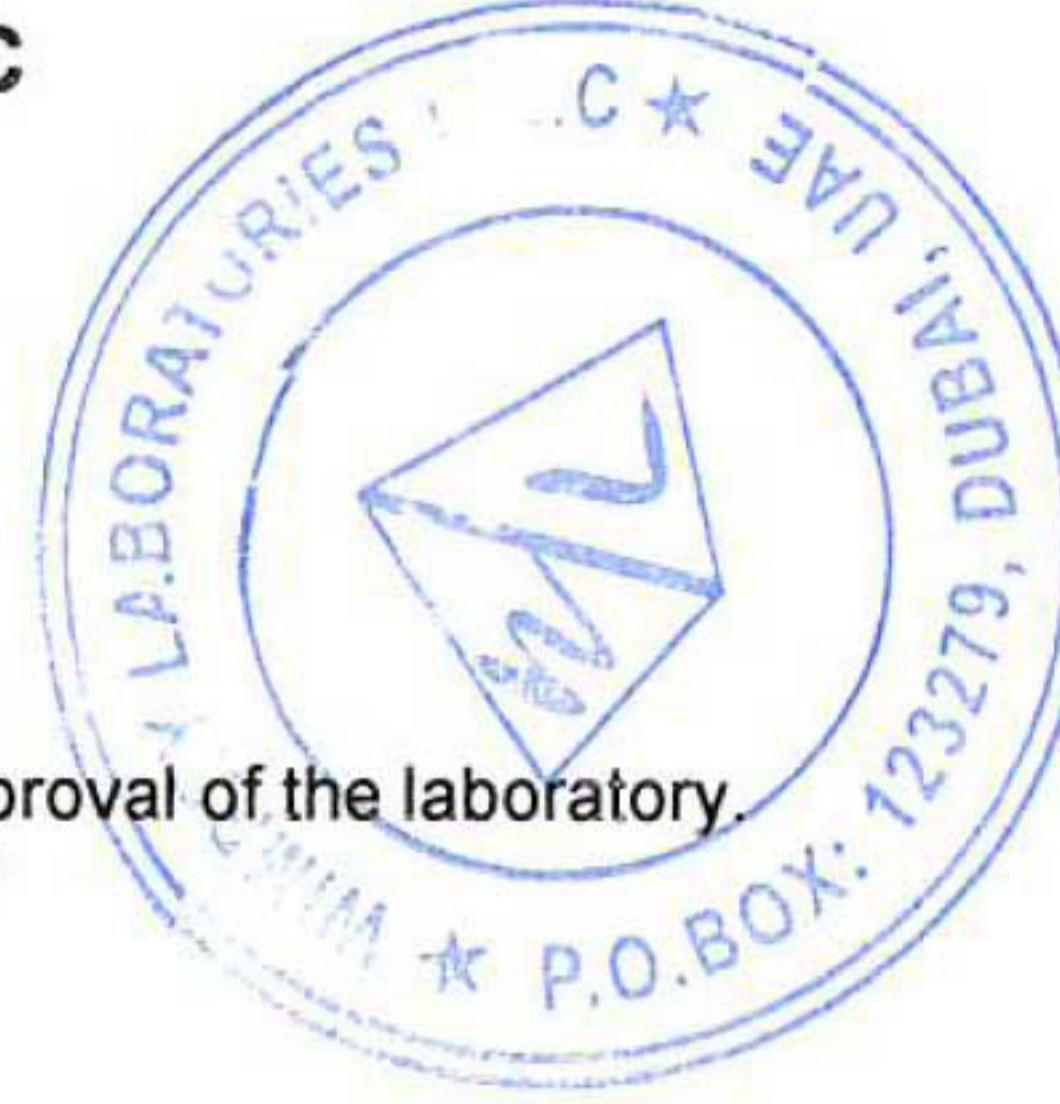
Anandu VS

Section In charge Chemistry-Specialty

Test results relate only to the samples tested.

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Form # WLR/90 Issue No.1 Issued on : 29/05/2019



*Every Tile  
is a  
Masterpiece*



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