



BARID

Cool Tiles from Al Maha

Al Maha
CERAMICS & PORCELAIN



المها
للسيراميك والبورسلين



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

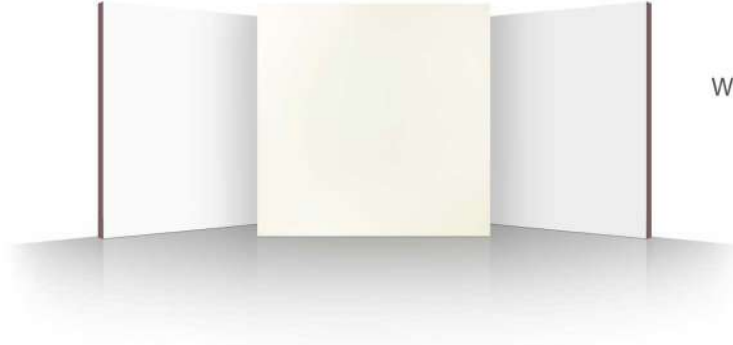
Save Electricity
يوفر الكهرباء
Provides Comfort
يعطي الراحة
Cool Indoors & Outdoors
يُبرد داخليا وخارجيا

Confirms ASTM C 1549
يتطابق مع الجمعية الأمريكية لاختبارات المواد سي ١٥٤٩
ASTM C 1371
والجمعية الأمريكية لاختبارات المواد سي ١٣٧١
ASTM E 1980:1
و الجمعية الأمريكية لاختبارات المواد 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

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%

**BARID
COOL TILES
FEATURES**

**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 آر آي) بحوالي 110.



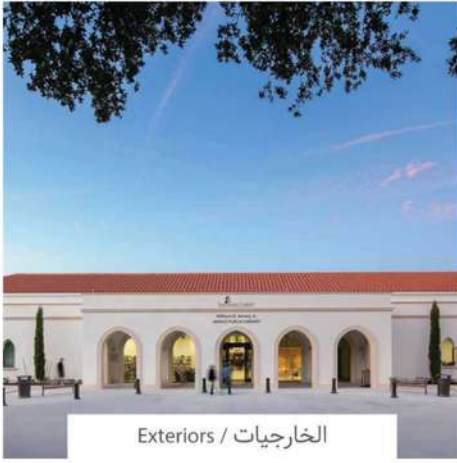
Balcony / شرفة



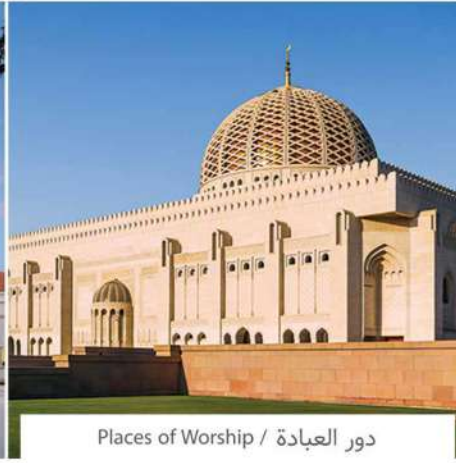
Swimming Pool Areas / منطقة حمام السباحة



Facades / واجهات



Exteriors / الخارجيات



Places of Worship / دور العبادة

EXTREME HEAT OUTSIDE

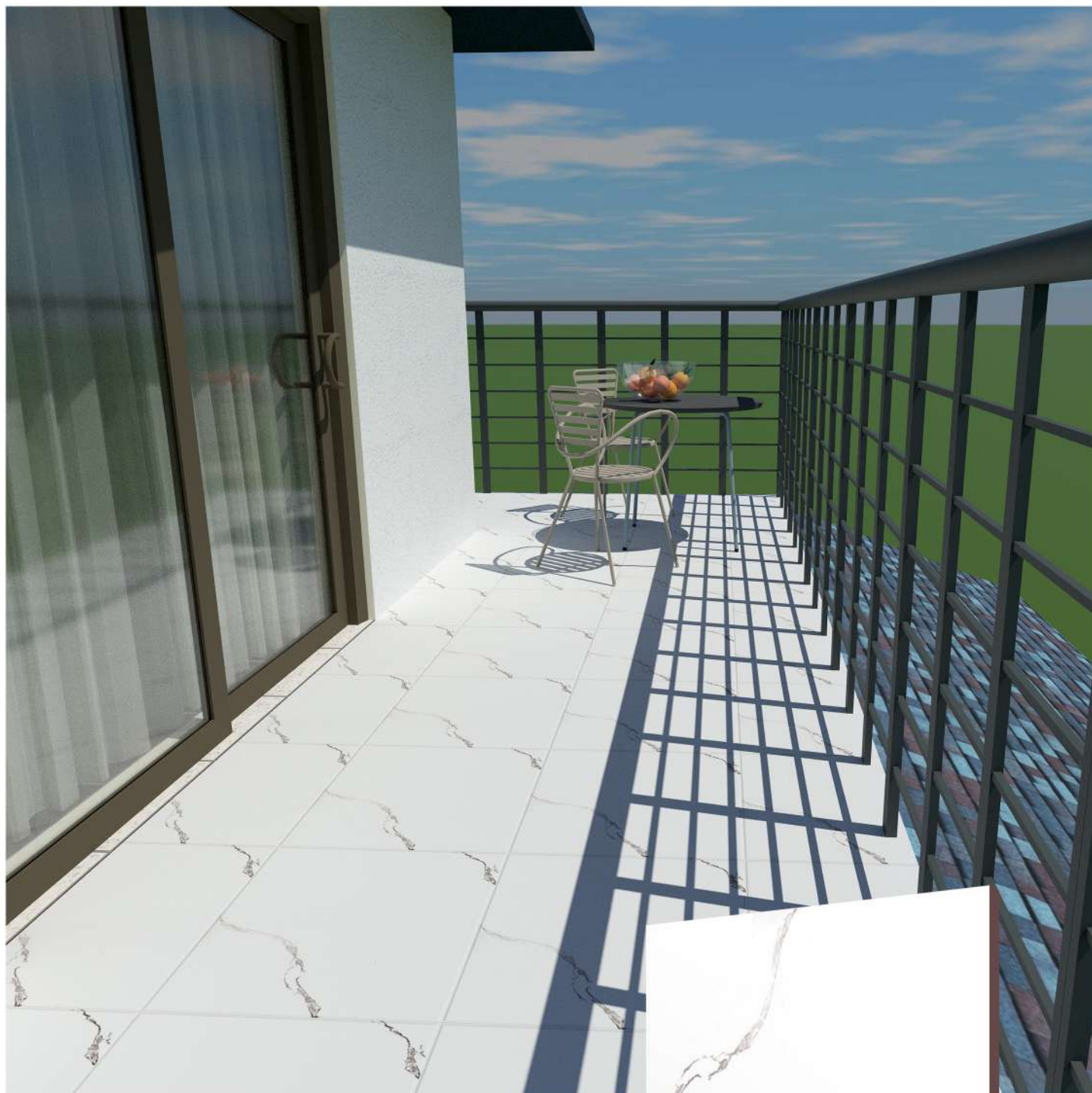
The raditions and heat of sunlight rapidly increases the temperature of the layers tat the radiations penetrates through. Heat develops discomfort to people, and consumes higher energy to cool down.

الحرارة الشديدة بالخارج

تزيد الأشعاعات و حرارة ضوء الشمس درجة حرارة الطبقات بسرعة التي تخترقها الأشعاعات و تسبب الحرارة انزعاجا للناس، و تستهلك طاقة أعلي لكي تبرد.



Rooftops / أسطح المنازل



FORV
50x50x1.4 cm





VITA

50x50x1.4 cm



CRATER

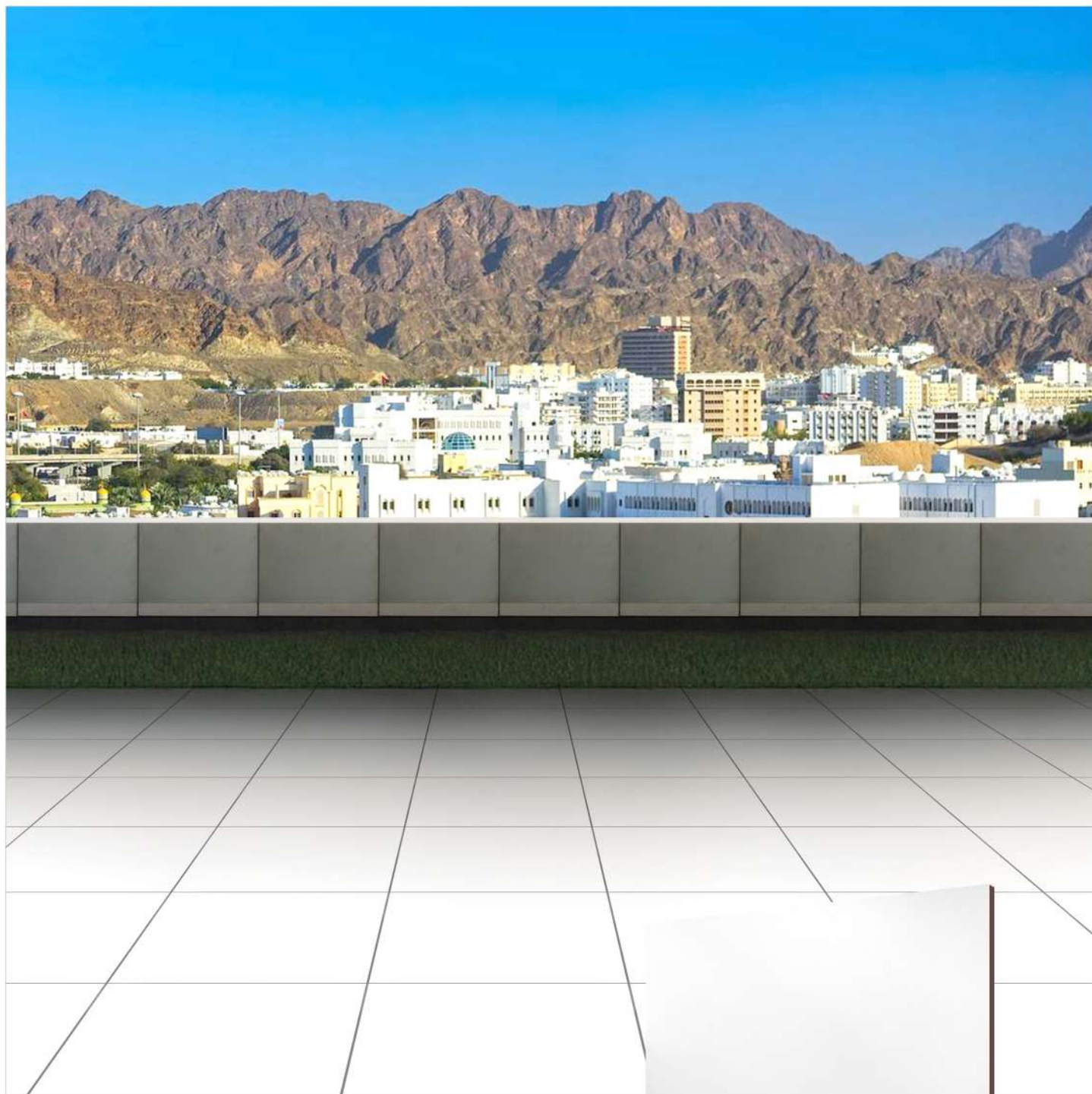
50x50x1.4 cm



ELK

50x50x1.4 cm





WHITE

50x50x0.9 cm

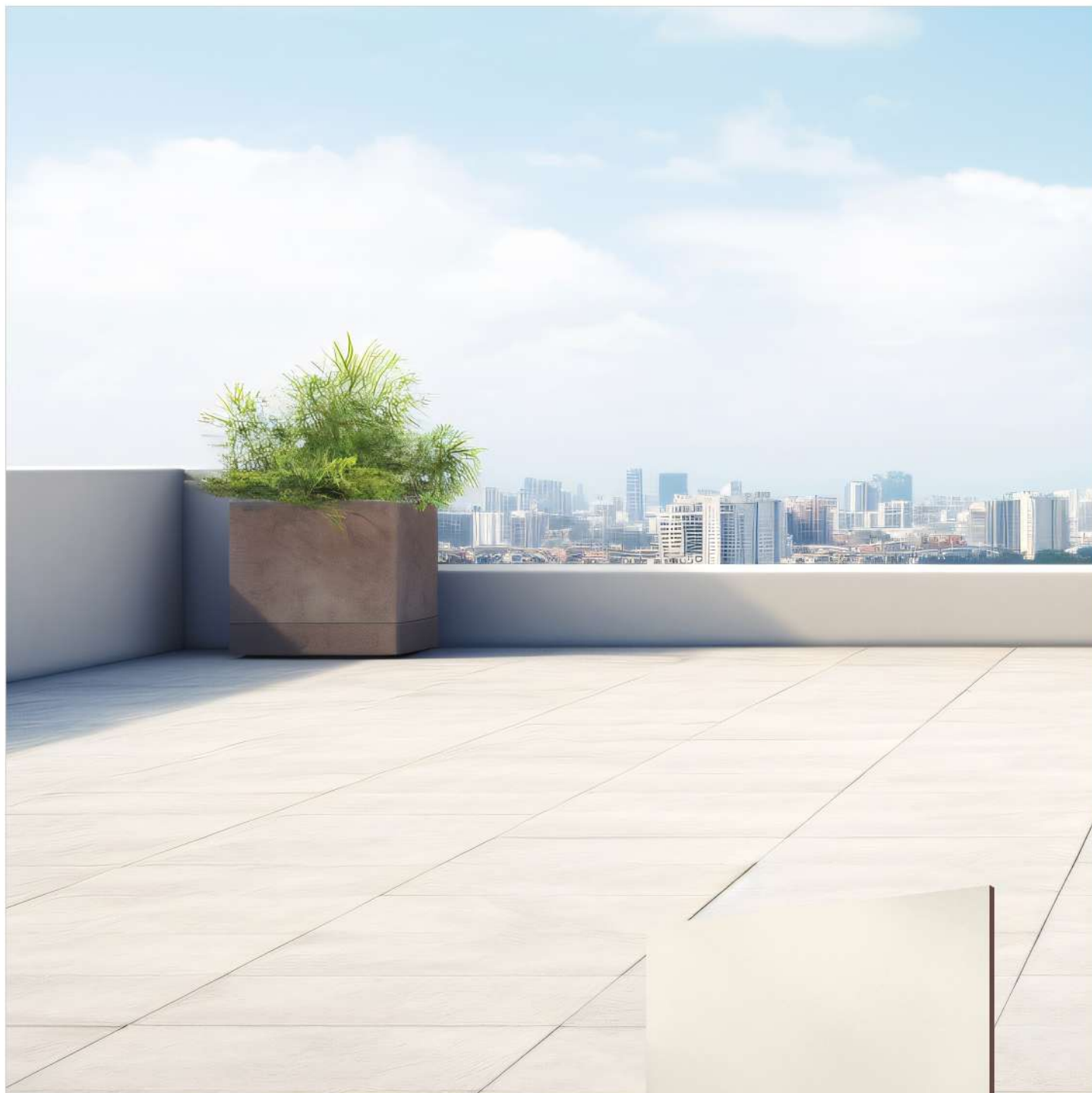




GREY

50x50x0.9 cm





CREAM

50x50x0.9 cm



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 10th 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)

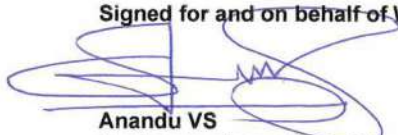
Test methods

Emissivity : ASTM C 1371
Solar reflectance : ASTM C 1549
SRI for wind condition (Low, Medium, High) : ASTM E 1980.01

Thermal emissivity: 0.76		Solar reflectance (%): 82.51	
Condition	Low wind (0-2 m/s)	Medium wind (2-6 m/s)	High wind (6-30 m/s)
Convective coefficient, (W/(m ² K))	5.0	12.0	30.0
Roof surface temperature (°C)	49.4	44.4	40.6
Solar reflectance index, SRI	100	101	101

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.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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

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
			AL MAHA	ISO 13006: 2018€
	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 -0.60	± 3.53
	Edge Curvature (mm)	± 0.50 %	1.40 -0.60	± 2.50
	Warpage (mm)	± 0.50 %	1.40 -0.60	± 3.53
	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
Wt / sqm	Kgs	24.48

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
			AL MAHA	ISO 13006: 2018€
	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
Wt / sqm	Kgs	18.260

*Every Tile
is a
Masterpiece*



AL MAHA CERAMICS SAOG

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