







P.O.Box: 143, Riyadh 11383 - Kingdom of Saudi Arabia.

Head Office Tel: +966 11 4567714 Fax:+966 11 4550672

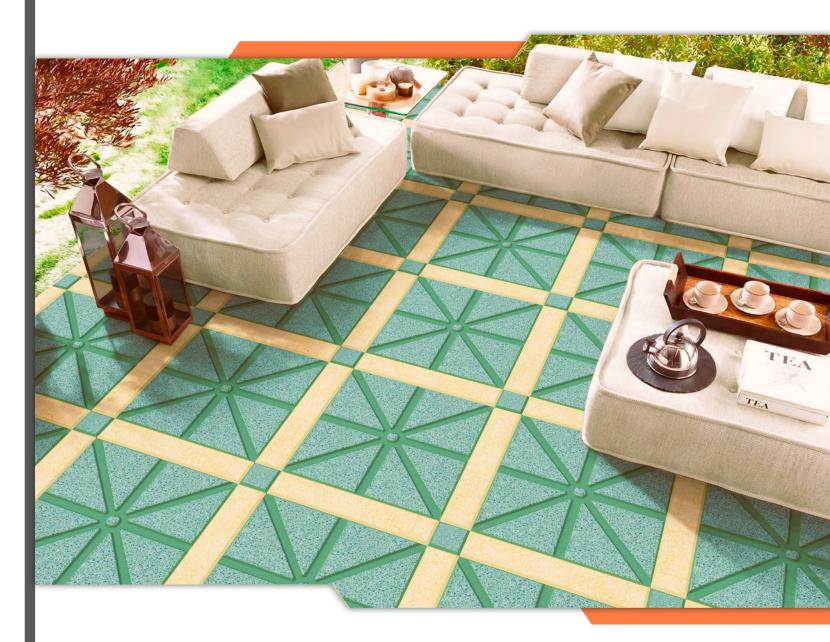
Factory Tel: +966 11 2652101 Fax:+966 11 2651045

CR: 1010075274 Email: info@artic.com.sa

Unified No: 920011575 Web: www.artic.com.sa



بلاط



TILE

Arabian Tile Company Ltd - ARTIC

الشركة العربية البلاط المحدودة - آرتك

www.artic.com.sa

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Arabian Tile Company Ltd - ▲ RTIC is one of the leading Building Materials manufacturer in the Middle East.

ARTIC products ranges are:

- * Pavers, Interlock, Kerbi's,
- * Terrazzo Tiles, Cement Tiles,
- * Planter Box, Trash Box,
- * Tables, Chairs, Light Poles,
- * Panels, Bollards,
- * Grinding and Polishing Stones (GPS),
- * Glass Fibre Reinforced Concrete (GFRC),
- * Glass Fibre Reinforced Gypsum (GFRG) and
- * Glass Fibre Reinforced Plastic (GFRP) in the Gulf region.

The Company was established in 1975, as a part of AGGAD investment company (AICO) providing customers with high quality products and services. At ARTIC we pride ourselves on our solid track record of achievements and commitment to our customers.

The Company has ten production lines; four in Riyadh, two in Jeddah, and four in Al-Kharj, dozens of showrooms, and a strong wholesale distribution network covering Saudi Arabia and other GCC Countries.

The success of ARTIC is based on four major strategic pillars:

Commitment to quality and innovative products, as the management continuously invest in R&D departments, and accept nothing but the highest quality in all company aspects.

Excellent product know-how, accumulated through over 40 years of experience, shared between all company employees, supported by most advanced ERP system.

Unparalleled capacity of executing big and high-end projects through its state of art and piece production facilities, and solid projects track record.

Commitment to invest in human capital, not only by attracting highly qualified employees, but also through the dedication of the management to continuously develop and train these employees.



الشركة العربية البلاط المحدودة - ارتك إحدى الشركات الرائدة في مجال تصنيع مواد البناء في الشرق الأوسط.

ومن أهم منتجاتها:

- * البلوك ،والانترلوك ، والبردورات وبلاط التيرازو كسر الرخام ،
 - * و البلاط الاسمنتي ، و الأحواض الزراعية ،
 - * وسلات المهملات ، والطاولات والكراسي ،
 - * وأعمدة الإنارة، واللوحات ، ومصدات السيارات ،
 - * وأحجار جلي البلاط (GPS)،
 - * والإسمنت المسلح بالفايير جلاس (GFRC) ،
 - * والجبس المسلح بالفايبرجلاس (GFRG)،
- * والبلاستيك المسلح بالفايبر جلاس (GFRP) وذلك في منطقة الخليج العربي .

تأسست ارتك عام 1975 وهي واحدة من شركات مجموعة العقاد للإستثمار (ايكو) ، والتي تهدف إلى تقديم افضل الخدمات والمنتجات عالية الجودة لعملائها مما يجعلها تفتخر بسجلها الحافل بإنجازاتها وبإلتزامها التام بخدمة عملائها .

يتوفر لدى ارتك عشر خطوط إنتاج رئيسية ، أربعة في الرياض ، واثنان في جدة ، وأربعة في الخرج ، ويتوفر لديها العديد من المعارض الرئيسية ، إضافة إلى شبكة من الموزعين المعتمدين لتغطي جميع مناطق المملكة العربية السعودية والخليج العربي .

إن نجاحنا يعتمد على أربع ركائز استراتيجية وهي:

الترامنا المطلق بمعاير الجودة واعتمادها لجميع جوانب الشركة وابتكارنا المستمر لانواع جديدة من المنتجات والناجمة عن استثمارنا المستمر في إدارة الأبحاث والتطوير.

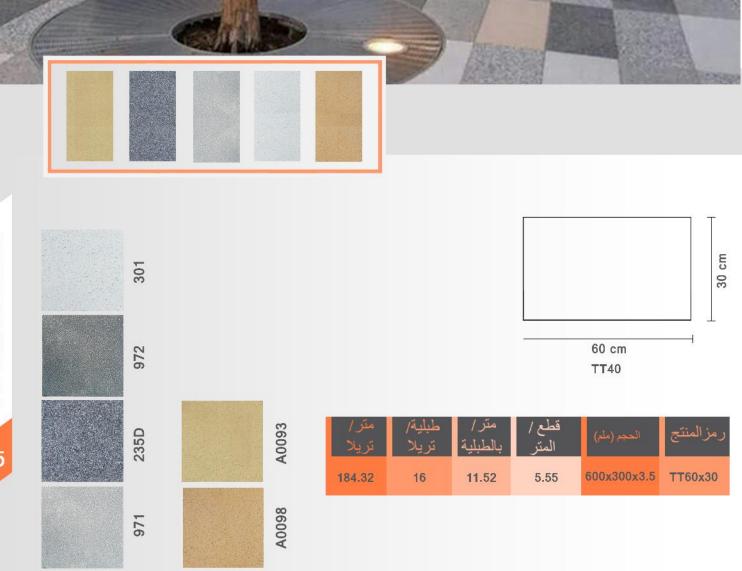
خبرتنا المميزة في جميع منتجاتنا التي تتجاوز 40 سنة والتي يتم مشاركتها بين جميع أقسام الشركة مدعومة بأحدث أنظمة تخطيط موارد الشركة .

قدرتنا اللامثيل لها في تنفيذ المشاريع الكبيرة حتى النهاية وذلك بسبب تميز طاقتنا الانتاجية العالية وخبرتنا الكافية التي تصلنا عليها خلال المشاريع الكبيرة السابقة التي تم تنفيذها .

استثمارنا الناجح في طاقم موظفينا ، ليس فقط لأننا نمتلك طاقما من الموظفين المؤهلين تأهيلا عاليا ، بل لاننا نكرس جميع إداراتنا بعمل جميع الدورات التدريبية والتأهلية واللازمة للموظفين بشكل مستمر .



تیرازو مستطیل





60 cm TT40

ERRAZZO TILE collection is available in several colors to provide the designer greater creative opportunities. Unique colors to bring subtle, or dramatic, variety to the installation.

Code	Size _(mm)	Pieces/ SQM	SQM/ Pallet	Charles and the	SQM/ Trailer	
TT60x30	600x300x3.5	5.55	11.52	16	184.32	

30 cm



301

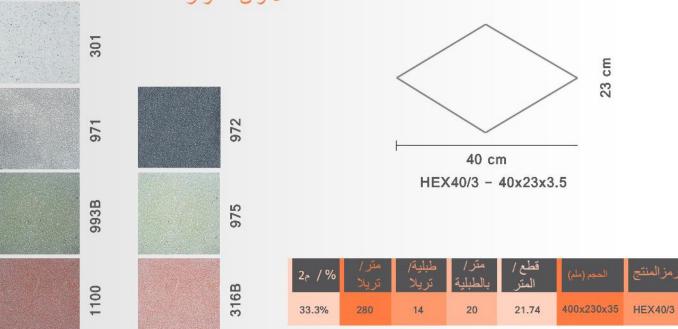
Color



TERRAZZO RECTANGULAR

نظراً لطبيعة المواد الإسمنتية ، نود التنويه بأن الألوان المطبوعة في الكتالوج تختلف عما هي عليه في الواقع







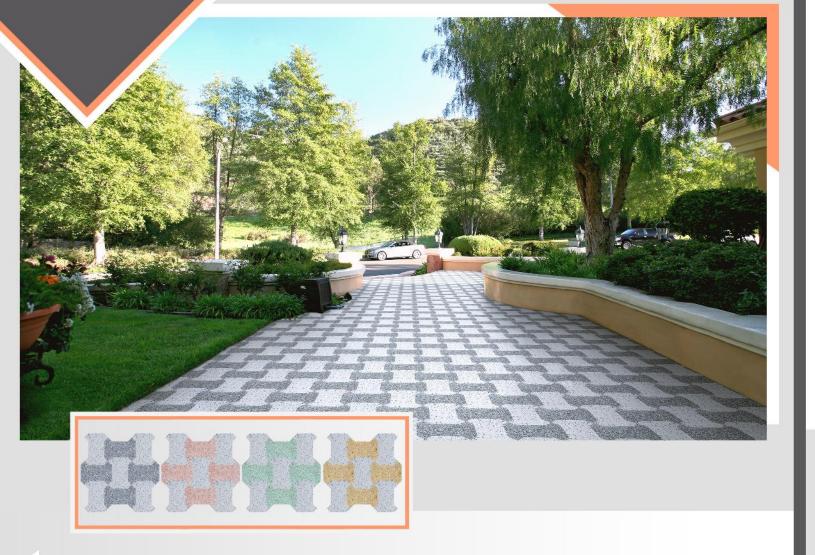


3 DIMENSION Tile is the ideal way to bring art into your residential or commercial areas, combining function with beauty that is capable of representing virtually 3Dimensional in design.

Code	Size _(mm)	Pieces/ SQM	SQM/ Pallet	Pallet/ Trailer	SQM/ Trailer	%/ SQM	Colo	r	
HEX40/3	400x230x35	21.74	20	14	280	33.3%	9		0
	Ĩ	^					972	-	071
23 cm				>			975		0038
3		<u></u>							
	HEX40	40 cm	23x3.5	_	301		316B		



: ālāo





235A
23
993

			.0 cm
			40
		_>	1
[30 cm	n	
	QI		

% / م2	متر/ تريلا	طبلية/ تريلا	متر / بالطبلية	قطع / المتر	الحجم (ملم)	رمزالمنتج
50%	279.44	14	19.96	11.12	400x300x40	QI



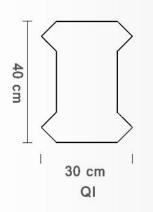
235B



ASHORI TILE is modern and contemporary, reflects the shape of I. Available in different colors, durable and affordable in price.

Code	Size(mm) Pieces/ SQM		SQM/ Pallet			%/ SQM
QI	400x300x40	11.12	19.96	14	279.44	50%

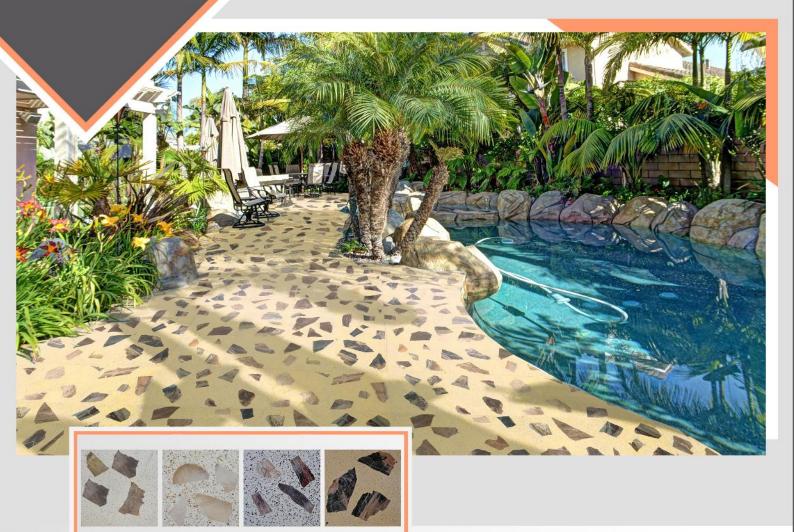
Color







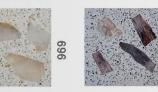
لاحظة :





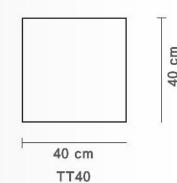












متر/ تریلا	طبلية/ تريلا	متر/ بالطبلية	قطع / المتر	الحجم (ملم)	رمزالمنتج
272	17	16	6.25	400x400x40	TT40





40 cm

CONGO TILE, the idea of this tile was come from the Democratic Republic of the Congo. The texture of each corresponding tile varies and delivers the old-world look that blends perfectly with any environment.

Code	Size _(mm)	Pieces/ SQM	SQM/ Pallet		SQM/ Trailer
TT40	400x400x40	6.25	16	17	272

40 cm TT40

Color

















214.04



كراك أيس (عنكبوتى)







CRACK ICE is something a bit out of the ordinary, something you don't see on everywhere. It makes your floors more beautiful and colorful.

J. J		ano je			0 0000	mar and oore	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Code	Size _(mm)	Pieces/ SQM	SQM/ Pallet	Pallet/ Trailer	SQM/ Trailer	Color	D09TT40	D04TT40	
40 cm		6.25 40 cm TT40C	16	17	272		D10TT40 D06TT40 D08TT40	D07TT40 D11TT40 D05TT40	
						HANDEN TO THE REAL PROPERTY OF THE PARTY OF			N. C.



400x400x40 DTT40C





235B





CRACK ICE is something a bit out of the ordinary, something you don't see on everywhere. It makes your floors more beautiful and colorful.

	Pieces/ SQM/ SQM Pallet 6.25 16	Pallet/ Trailer	SQM/ Trailer 272	Color 235R	1882	***************************************
40 cm		492R		993	235A	
	0 cm ГТ40C	235R		235B	235D	1
						X

CRACK ICE

400x400x40 DTT40C



24 cm

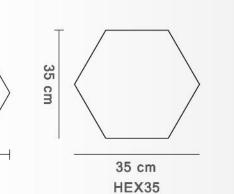
24 cm

HEX24

EXAGONAL TILE offers a bold and modern option in a hexagonal shape comes in two different sizes.

Code	Size _(mm)	Pieces/ SQM	SQM/ Pallet	Pallet/ Trailer	SQM/ Trailer	%/ SQM
HEX35	350x350x35	9.6	20	14	280	50%
HEX24	240x240x25	20	24.96	16	399.36	50%

Color

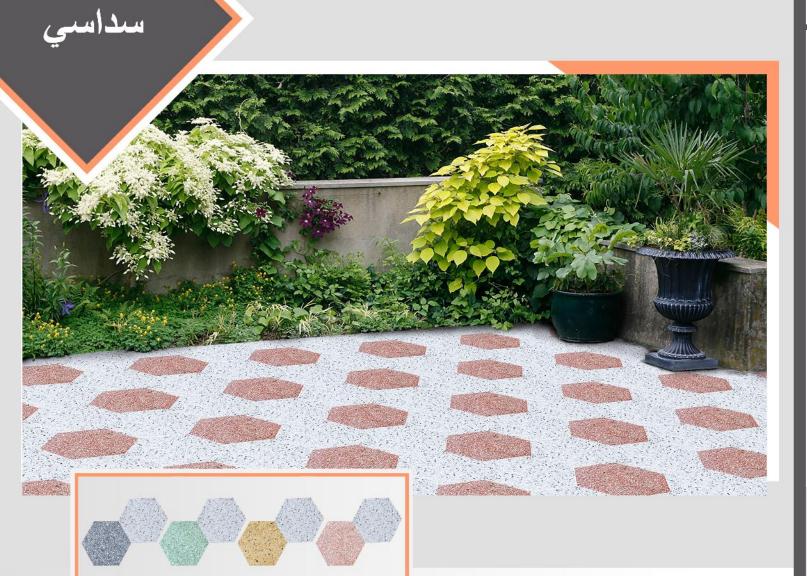












الالوان المتوفرة



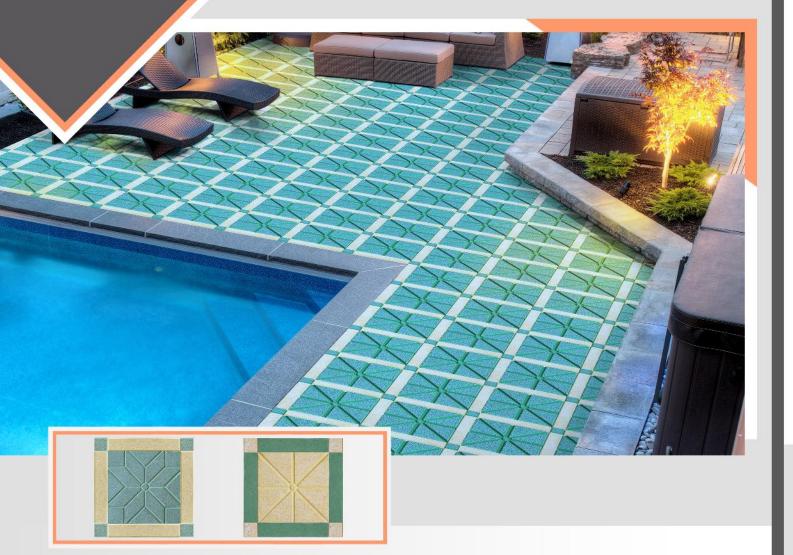
235A
993

	35 cm		24 cm
35 cm HEX35		24 cm HEX24	

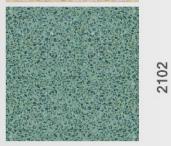
% / م2	متر/ تریلا	طبلية/ تريلا	متر/ بالطبلية	قطع / المتر	الحجم (ملم)	رمزالمنتج
50%	280	14	20	9.6	350x350x35	HEX35
50%	399.36	16	24.96	20	240x240x25	HEX24



235B







-		
		49 cm
		0
		64
-		
	49 cm	

TT49

E	
64	
	□ T Bo
9 cm	9 cm
SC49X9	SC9X9
SC49X9	SCaxa

% / م2	متر <i>/</i> تریلا	طبلية/ تريلا	متر/ بالطبلية	قطع / المتر	الحجم (ملم)	رمزالمنتج
-	261.46	17	15.38	4.16	490x490x50	TT49
-	224.4	17	13.2	22.67	490x90x50	SC49x9
-	137.7	17	8.1	123.4	90x90x50	SC9x9





49 cm

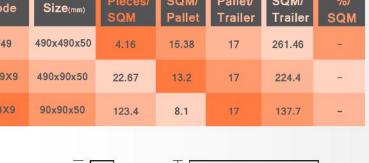
SC9X9

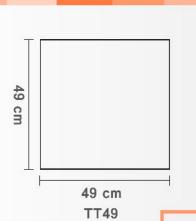
9 cm

SC49X9

SLAMIC TILE is evolved from the traditional design of Islamic Religion. Big in size, very suitable for large spaces.

Code	Size _(mm)	Pieces/ SQM	SQM/ Pallet	Pallet/ Trailer	SQM/ Trailer	%/ SQM
TT49	490x490x50	4.16	15.38	17	261.46	=
SC49X9	490x90x50	22.67	13.2	17	224.4	e
SC9X9	90x90x50	123.4	8.1	17	137.7	-



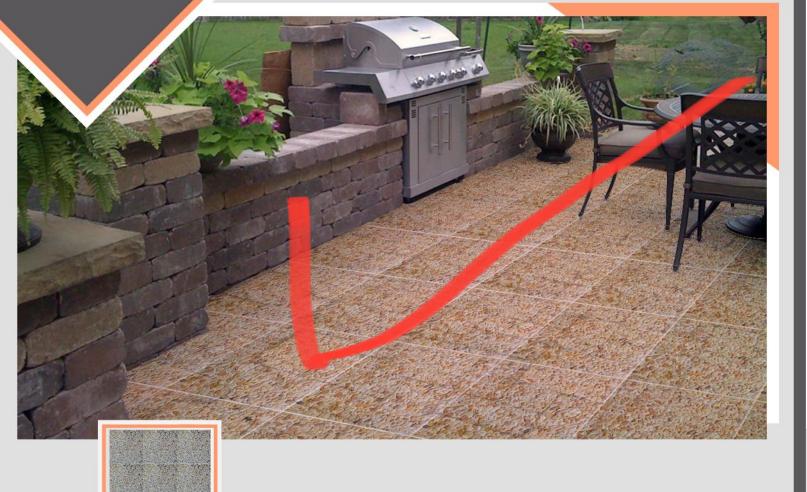


Color











909R



909G

909D







40 cm

EAG40 -





40 cm

EXPOSED AGGREGATE is designed for exterior use. Is an excellent option to natural stone products due to its durability, strength and low maintenance.

Code	Size _(mm)	Pieces/ SQM	SQM/ Pallet	Pallet/ Trailer	SQM/ Trailer
EAG40 - 1045A	400x400x40	6.25	16	17	272

40 cm





909R



909D

909G



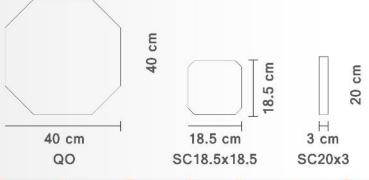
EXPOSED AGGREGATE

نظراً لطبيعة المواد الإسمنتية ، نود التنويه بأن الألوان المطبوعة في الكتالوج تختلف عما هي عليه في الواقع



GREECE TILE is inspired by Greece Designs, bringing the warm simplicity to our modern, metropolitan world. Perfect in color and pattern.





Code	Size(mm)	Pieces/ SQM	SQM/ Pallet	Pallet/ Trailer	SQM/ Trailer	%/ SQM
QO	400x400x40	7.54	19.1	14	267.4	74%
SC 18.5x18.5	185x185x40	29.21	16	16	256	18%
SC 20x3	200x30x40	166.67	16	16	256	8%





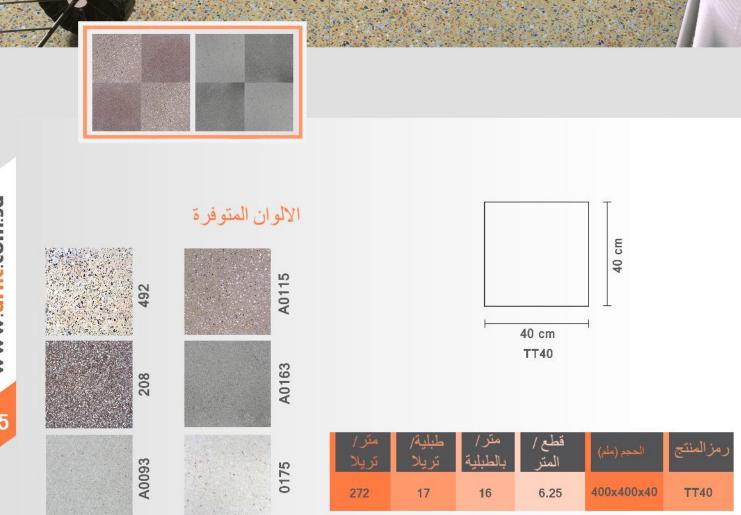
UADRO SULAIMANIA designed for modern architectural properties. This three shape pattern creates a unique, contemporary look for boulevard and patio applications.

	ations.	reates	a uniqi	ue, com	tempo	ary loc	ok for boulevard and	patio	
Code	Size _(mm)	Pieces/ SQM	SQM/ Pallet	Pallet/ Trailer	SQM/ Trailer	%/ SQM	Color		
QI	400x300x40	11.12	19.96	14	279.44	75.10%	Coloi		
SC30x10	300x100x40	33.333	16	16	256	20.80%		1882	
SC7x7	70x70x40	204	10	16	160	4.10%			
	30 cm		40 cm				235A	235D	
	7 cm 6C7x7	10 cm SC30x10		30 cm			993	235B	
						•			
	143°								

QUADRO SULAIMANIA

كوادرو سليمانية

بلاط موزاييك أرتك





40 cm

OSAIC TILE is rich in color, more attractive and ideal for floor application. These beautiful tiles are each different in design and color.

Code	Size _(mm)	Pieces/ SQM	- ALDERS AND SER OF 1	Pallet/ Trailer	SQM/ Trailer	
TT40	400x400x40	6.25	16	17	272	

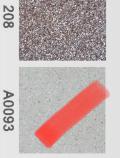
40 cm TT40



Color









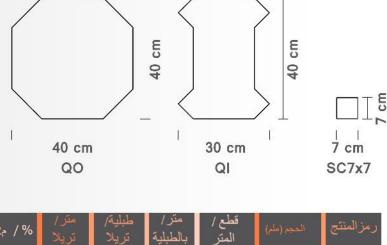
MOSAIC TILE

نظراً لطبيعة المواد الإسمنتية ، نود التنويه بأن الألوان المطبوعة في الكتالوج تختلف عما هي عليه في الواقع

Due to the nature of any cement product, note that printing colors in the catalog will differ slightly from the actual color of product.







% / م2	مت <i>ر /</i> تريلا	طبلية/ تريلا	متر/ بالطبلية	قطع / المتر	الحجم (ملم)	رمزالمنتج
55.12%	267.4	14	19.1	7.54	400x400x40	QO
40.49%	279.44	14	19.96	11.12	400x300x40	QI
4.39%	160	16	10	204	70x70x40	SC7x7
4.39%	160	16	10	204	70x70x40	SC7x





7 cm

— 7 cm

SC7x7

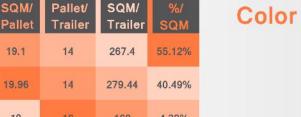
OTERDAM TILE three shape series comes in separate pallets allowing to have arranged pattern design and fills the area with its beauty.

Code	Size(mm)	Pieces/ SQM	SQM/ Pallet	Pallet/ Trailer	SQM/ Trailer	%/ SQM
QO	400x400x40	7.54	19.1	14	267.4	55.12%
QI	400x300x40	11.12	19.96	14	279.44	40.49%
SC7x7	70x70x40	204	10	16	160	4.39%

30 cm

QI

40 cm



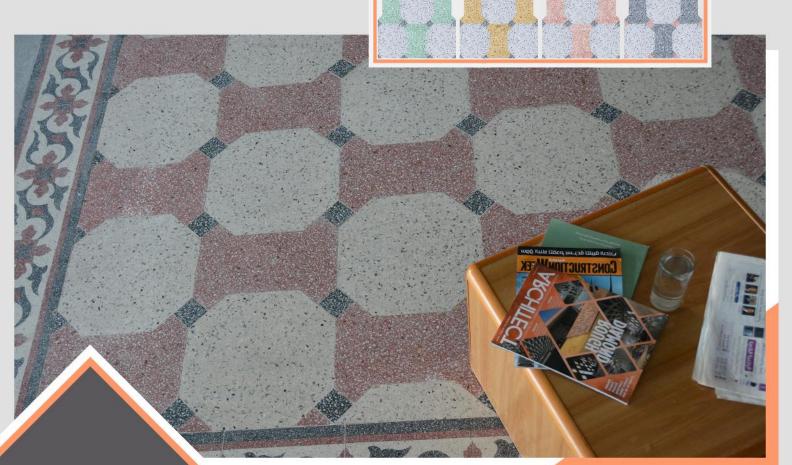
40 cm

QO











QUADRO DEMASHKI (SMALL) is same like as Quadro Demashki (Big) but only the size of the quad tile is comparatively smaller.



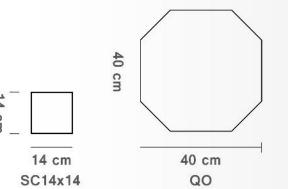




QUADRO DEMASHKI (BIG) is simplicity brought up to date with a point of color, absolutely modern yet timeless in a well-considered mixture of material. This tile is suitable for any commercial application and residential for floor.

Code	Size _(mm)	Pieces/ SQM	SQM/ Pallet	Pallet/ Trailer	SQM/ Trailer	%/ SQM
QO	400x400x40	7.54	16	17	272	86.28%
SC14x14	140x140x40	51	16	16	256	13.75%

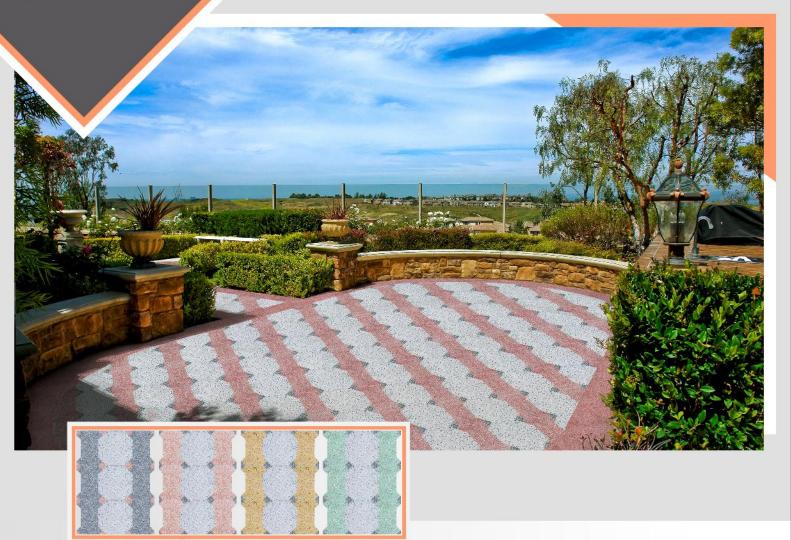




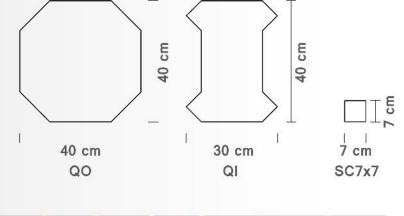




نظراً لطبيعة المواد الإسمنتية ، نود التنويه بأن الألوان المطبوعة في الكتالوج تختلف عما هي عليه في الواقع Due to the nature of any cement product, note that printing colors in the catalog will differ slightly from the actual color of product.







% / م2	متر/ تریلا	طبلية/ تريلا	متر/ بالطبلية	قطع / المتر	الحجم (ملم)	رمزالمنتج
55.12%	267.4	14	19.1	7.54	400x400x40	QO
40.49%	279.44	14	19.96	11.12	400x300x40	QI
4.39%	160	16	10	204	70x70x40	SC7x7



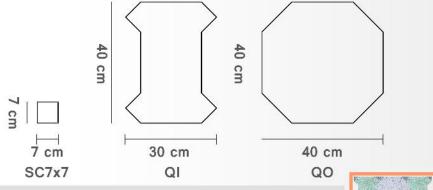


QUADRO MAKDESSI is the masterpieces of classical architecture, combined with the strength and durability, tradition and innovation, elegance and comfort.

Code	Size _(mm)	Pieces/ SQM	SQM/ Pallet	Pallet/ Trella	SQM/ Trella	%/ SQM
QO	400x400x40	7.54	19.1	14	267.4	55.12%
QI	400x300x40	11.12	19.96	14	279.44	40.49%
SC7x7	70x70x40	204	10	16	160	4.39%











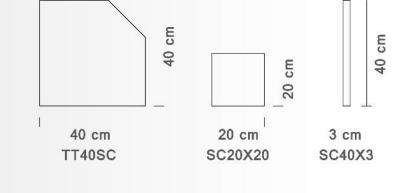
QUADRO MAKDESSI

ملاحظة :

نظراً لطبيعة المواد الإسمنتية ، نود التنويه بأن الألوان المطبوعة في الكتالوج تختلف عما هي عليه في الواقع







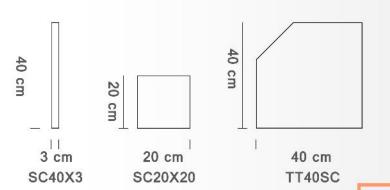
/ % ع 2	متر/ تریلا	طبلية/ تريلا	متر/ بالطبلية	قطع / المتر	الحجم (ملم)	رمزالمنتج
85.20%	254.66	17	14.98	6.67	400x400x40	TT40SC
5.67%	256	16	16	25	200X200X40	SC20X20
9.13%	224	14	16	83.33	400X30X40	SC40X3





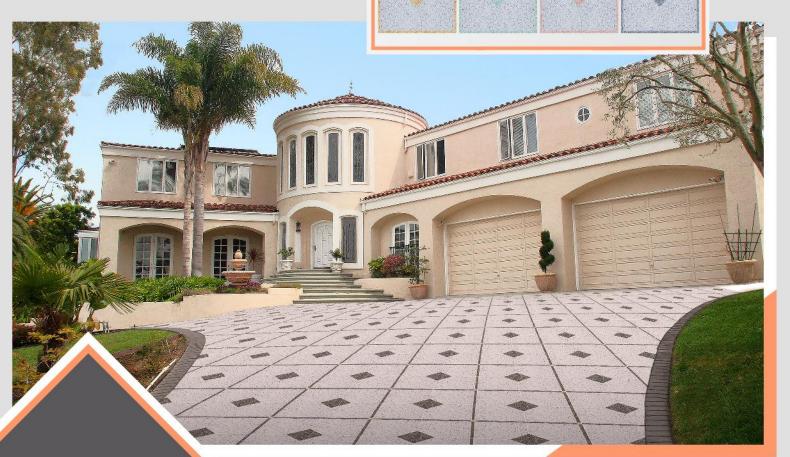
SIDE CUT, The superior makeup of this material is obvious to the eye and touch as it arouses a powerful emotional response that makes Terrazzo flooring so appealing.

Code	Size(mm)	Pieces/ SQM	SQM/ Pallet	Pallet/ Trailer	SQM/ Trailer	%/ SQM
TT40SC	400X400X40	6.67	14.98	17	254.66	85.20%
SC20X20	200X200X40	25	16	16	256	5.67%
SC40X3	400X30X40	83.33	16	14	224	9.13%





Color



(حظة :



بلاط نمطی استاندر



250X250X25

TT25

40 cm





STANDARD PRODUCT meets ultimate quality value in our best-selling Tile series. The unique color and texture makes it so popular, economical, low-maintenance, and fashionable choice.

	Code	Size(mm)	Pieces/ SQM	SQM/ Pallet	Pallet/ Trailer	SQM/ Trailer		
	TT40	400X400X40	6.25	16	17	272	Color	100.55X.24X.45X.45X
	TT30	300X300X30	11.11	28.08	13	365.04	Color	1882
	TT25	250X250X25	16	30	: 14	420		8
20 02		30 cm		40 cm			235A	235D
CIII		cm	30 cm			0 cm	993	235B



STANDARD PRODUCT TILE

نظراً لطبيعة المواد الإسمنتية ، نود التنويه بأن الألوان المطبوعة في الكتالوج تختلف عما هي عليه في الواقع

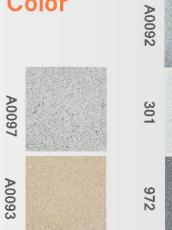
Due to the nature of any cement product, note that printing colors in the catalog will differ slightly from the actual color of product.

بلاط نمطى

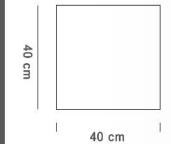


STANDARD PRODUCT is also one of our best-selling Tile series. Unique in color, economical, environmentally friendly, easy to clean and is suitable for any application.

Code	Size _(mm)	Pieces/ SQM	SQM/ Pallet	Pallet/ Trailer	SQM/ Trailer
TT40	400X400X40	6.25	16	17	272
TT30	300X300X30	11.11	28.08	13	365.04
TT25	250X250X25	16	30	14	420



Color



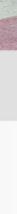
TT40



A0098

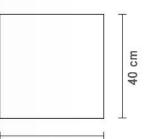












40 cm	
TT40	

972	993B
0	

301

متر/ تريلا	طبلية/ تريلا	متر/ بالطبلية	قطع / المتر	الحجم (ملم)	رمزالمنتج
272	17	16	6.25	400x400x40	TT40
365.04	13	28.08	11.11	300X300X30	ТТ30
420	14	30	16	250X250X25	TT25





STANDARD PRODUCT

نظراً لطبيعة المواد الإسمنتية ، نود التنويه بأن الألوان المطبوعة في الكتالوج تختلف عما هي عليه في الواقع

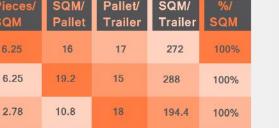
بلاط أسمنتي

ارتک ARTIC

40 cm 1020000013

CEMENT TILE is unique in design and conveys sophistication in look, allows you to decorate the sides of pool or large space of residential and commercial areas.

Code	Size _(mm)	Pieces/ SQM	SQM/ Pallet	Pallet/ Trailer	SQM/ Trailer	%/ SQM
1020000013	400x400x40	6.25	16	17	272	100%
IPV-S40	400x400x40	6.25	19.2	15	288	100%
IPV-S60	600x600x60	2.78	10.8	18	194.4	100%

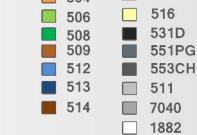




507

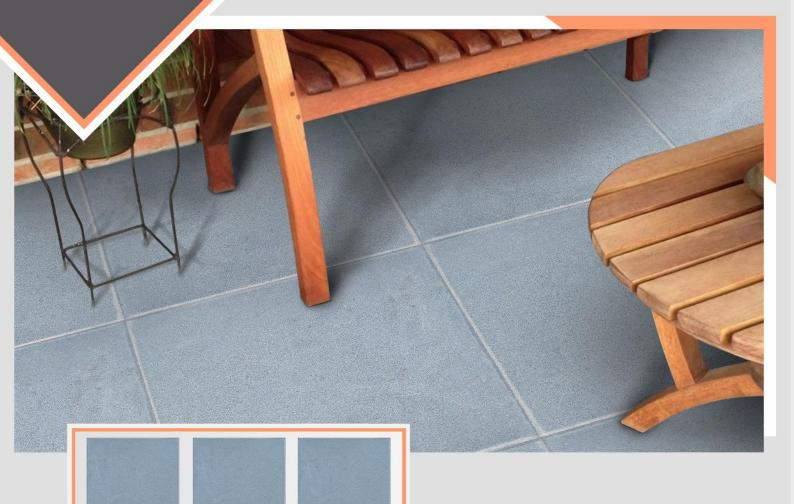
Standard Colors

501











7040 □ 1882



/ % ع2	متر/ تریلا	طبلية/ تريلا	متر/ بالطبلية	قطع / المتر	الحجم (ملم)	رمزالمنتج
100%	272	6.25	16	17	400x400x40	1020000013
100%	288	6.25	19.2	15	400x400x40	IPV-S40
100%	194.4	2.78	10.8	18	600x600x60	IPV-S60



CEMENT TILE

Code رمزالمنتج	Size(mm) الحجم (ملم)	Pieces/ LM / قطع LM	LM/ Pallet /LM بالطبلية	Pallet/ Trailer طبلیة/ تریلا	LM/ Trailer اLM تریلا
TSK30	300x100x15	3.33	180.18	16	2882.88
TSK40	400×100×20	2.5	200	16	3200
TT30	300x300x30	11.11	28.08	13	365.04

BORDERS:

النعلات و

الإطارات















SKIRTINGS:

TSK30-235B

TSK30-993B

TSK30-235A

TSK30-1882

TSK40-983A

TSK40-969

TSK40-1098A

SKIRTINGS & BORDERS

www.artic.com.sa

Eco TILE

Cool Roof

ARTIC is the First Company in the region has the Membership of Cool Roof Rating Council.

What is a Cool Roof

A cool roof reflects and emits the sun's heat back to the sky instead of transferring it to the building below. «Coolness» is measured by two properties, solar reflectance and thermal emittance. Both properties are measured from 0 to 1 and the higher the value, the «cooler» the roof.

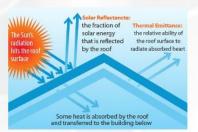
In many climate zones, a cool roof can substantially reduce the cooling load of the building, providing several direct benefits to the building owner and occupants:

- 1. Increased occupant comfort, especially during hot summer months.
- 2. Reduced air conditioning use, resulting in energy savings typically of10 30 %
- 3. Decreased roof maintenance costs due to longer roof life.

COOL ROOFS BENEFIT FOR THE ENVIRONMENT & PUBLIC HEALTH

- 1. Increased occupant comfort, especially during hot summer months.
- 2. Reduced air conditioning use, resulting in energy savings typically of10 30 %
- 3. Decreased roof maintenance costs due to longer roof life.
- 4. Climate Change Mitigation
- 5. Urban Heat Island Mitigation
- 6.Reduced Smog
- 7. Public Health Benefits
- 8. Peak Energy Savings and Grid Stability
- 9. Secondary Energy Benefits





البلاط العاكس لأشعة الشمس(ايكو)

تواصل الشركه العربية للبلاط - أرتك - مهيزها وابداعها في ابتكار الجديد من المنتجات في مجال البناء لتحافظ

على مركز الصداره في هذا المجال ، حيث قامت الشركه العربية للبلاط - أرتك بطرح منتج ECO TILE

يقوم هذا المنتج بعكس أشعة الشمس بنسبة قد تصل إلى 80 % مها يترتب عليه المحافظة على درجات الحرارة للجو المحيط في معدلاتها الدنيا. كما أنة يقوم بتوفير 30% من الطاقة اللازمه للتبريد من أجهزة التكييف.

مها يترتب عليه التقليل من إنبعاث غاز الفريون لأجهزة التبريد بنسبة 30% وبذلك يكون هذا المنتج صديق للبيئة من الدرجة الأولى، ومحافظ على البيئة من الملوثات المتسببة في التأثير على طبقة الأوزون وبذلك تكون الشركه العربية للبلاط - أرتك بطرحها لهذا المنتج السباقة في مجال الحفاظ على البيئة ونشر الوعي البيئي والذي ساهم أيضاً في مجال التقليل من صرف الطاقة اللازمة للتبريد في منطقة الخليج العربي.

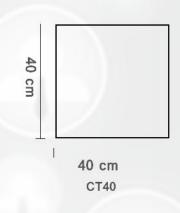
أول شركة عربية من نوعها تحصل على اعتماد المجلس العالمي للأسطح الباردة.





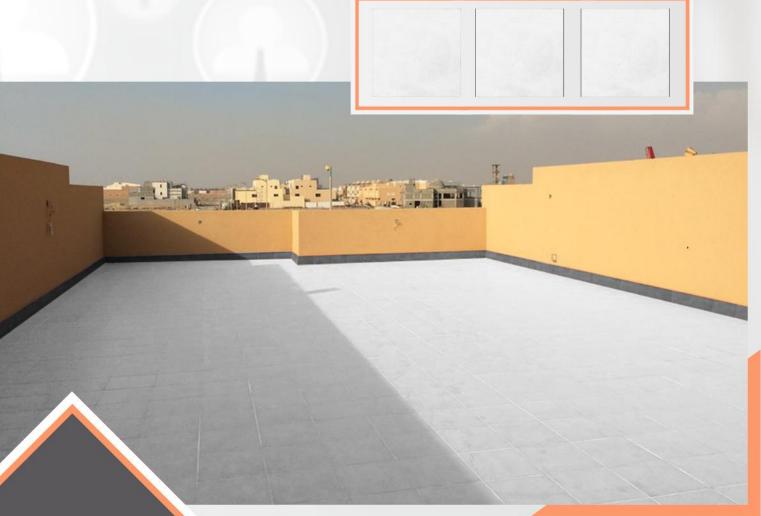
CO TILE is used to reduce the temperature of the building alos helps to reduce the global warming.

Code	Size _(mm)	Pieces/ SQM		Pallet/ Trailer		
ECO CT40-895W	400x400x40	6.25	16	17	272	100%





895W



لاحظة :

ECO TILE

SR. NO:	NAME OF PRODUCT	CODE & DIMENSION (mm)	HEIGHT (mm)	PIECES (PER m2)	PERCENTAGE (PER m2)
01	ثلاثی الأبعاد 3D TILE	HEX40/3	35	21.74	33.3/color
02	أشورى ASHORI	QI 400	40	11.12	50/color
03	بلاط أسمنتى CEMENT TILE	1020000013	40	6.25	100
		IPV-S40	40		
		IPV-S60	60		
05	بلاط شحف CONGO TILE	TT40 400	40	6.25	100
		TT50	50	4	100
06	کراك أيس (عنكبوتى) CRACK ICE	DTT40C 400	40	6.25	100
07	بحصة نافرة EXPOSED AGGREGATE	EAG40	40	6.25	100
08	بلاط إغريقى GREECE TILE	QO 400	40	7.54	74
		SC18.5x18.5	40	29.21	18
		20 I See See See See See See See See See S	40	166.67	8





SR. NO.:	NAME OF PRODUCT	PRODUCT DIMENSION (mm)	HEIGHT (mm)	PIECES (PER m2)	PERCENTAGE (PER m2)
09	سداسی HEXAGONAL	HEX24	25	20	50
		HEX35	35	9.6	50
10	پلاط إسلام <i>ي</i> ISLAMIC TILE	TT49 490	50	4.16	71
		\$C49x9	50	22.67	26.5
		S	50	123.4	2.5
11	بلاط موزاییك أرتك MOSAIC TILE	TT40	40	6.25	100
12	نوتردام NOTERDAM	QO 400	40	7.54	55.12
		QI 400	40	11.12	40.49
		3 ⊥ III 70 SC7x7	40	204	4.39
13	کوادرو دمشقی (کبیر) QUADRO DEMASHKI (BIG)	QO 400	40	7.54	86.28
		SC14x14	40	51	13.75

ملاحظة :

PRODUCTS DIMENSION SR. NO: NAME OF CODE & DIMENSION HEIGHT PIECES PERCENTAGE SR. NO:

SR. NO:	NAME OF PRODUCT	CODE & DIMENSION (mm)	HEIGHT (mm)	PIECES (PER m2)	PERCENTAGE (PER m2)
14	کوادرو دمشقی (صغیر) QUADRO DEMASHKI (SMALL)	QO30 300	30	11.76	94.55
		©]	40	204	5.45
15	كوادرو مقدس <i>ي</i> QUADRO MAKDESSI	QO 400	40	7.54	55.12
		QI 000	40	11.12	40.49
		\times_{\frac{1}{70}} \tag{7} \times_{\frac{1}{70}} \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	40	204	4.39
16	كوادرو سليمانية QUADRO SULAIMANIA	QI 400	40	11.12	75.10
		SC30x10	40	33.333	20.80
		<u>F</u> 18	40	204	4.10
17	بلاط مشطوف SIDE CUT	TT40SC 400	40	6.67	85.20
		- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40	25	5.67
		SC40x3 H 30	40	83.33	9.13





SR. NO.:	NAME OF PRODUCT	PRODUCT DIMENSION (mm)	HEIGHT (mm)	PIECES (PER m2)	PERCENTAGE (PER m2)
18	بلاط نمطی STANDARD PRODUCTS	TT40 400	40	6.25	100
		₩ 300	30	11.11	100
		TT25	25	16	100
19	بلاط نمط <i>ی</i> TAIBA TILE	QO 400	40	7.54	77.06
		SC20x20	40	25	22.94
20	بلاط تیرازو TERRAZZO TILE	TT40 400	40	6.25	100
		TT30	30	11.11	100
		TT25	25	16	100
21	بلاط فينسيا VENICIA TILE	QI 300	40	11.13	60
		QL 200	40	16.68	40
22	تیرازو مستطیله TERRAZZO RECTANGULAR	Q1 600	40	11.13	60

ملاحظة :

TECHNICAL DATA SHEET

CEMENT TILE

A. Raw Material Specification:

Raw Material Name	Description	International Standard
Aggregates	Normal Weight, Natural, Graded, Solid, Free from Clay & Silt, Alluvial, Organic matters and other impurities	SASO 378, BS EN12620, ASTM-C 33
Sand/Powder	Natural, Clean, Free from salt, Dust, Clay, Silt, Organic matters and other impurities.	SASO 1029, BS EN12620, ASTM-C 33
Cement	Must be WPC(CEM 1-52.5N),OPC (type-1) SRC(Type-V),andConfirming to ASTM,BS and SASO Standards.	SASO 143, BS EN197-1,ASTM- C 150
Pigment	Clean Potable Water, Free from salt, organic & Deleterious matters and other impurities which may affect the tiles quality.	SASO 1029, BS EN450, ASTM C 979
Water	Potable Water, Clean, Free from salt & organic impurities, Deleterious matters.	SASO 1029, ASTM C 1602 & C1603, BS EN 13748
Admixture	The chemical Admixtures for the use of concrete mix must be chlorides free and confirming to the standards.	SASO 1029, ASTM C494/C494M-4

B. Dimensions: (Allowable Tolerance in Dimensions)

Clause Tolerance		International Standard		
Lenght	± 1 mm	SASO 1029(GS777)-1997, BS EN13748-2:2004		
Width	± 1 mm	SASO 1029(GS777)-1997, BS EN13748-2:2004		
Height	± 3 mm	SASO 1029(GS777)-1997, BS EN13748-2:2004		
Straightness	± 1 mm	SASO 1029(GS777)-1997, BS EN13748-2:2004		
Edges Straightness	±0.3 %	SASO 1029(GS777)-1997, BS EN13748-2:2004		
Flatness of upper face	±0.3 %	SASO 1029(GS777)-1997, BS EN13748-2:2004		

C. Physical Properties:

Test	Individual	Avg. of tested pieces	International Standard
Flexural Strength	5 N/mm²	6 N/mm²	SASO 1029, SASO 1028 BS EN13748-2, ASTM C 293
Total Water Absorption	10%	8%	SASO 1029, SASO 1028, BS EN13748-2, ASTM C140
Abrasion Resistance (Loss of face thickness due to abrasion)	3.6 mm	3 mm	SASO 1029, SASO 1028, BS EN13748-2, ASTM C 241-91
Slip Resistance (Co-efficient of friction)	=1	0.7	BS EN13748-2:2004, ASTM C1028-96
Freezing & Thawing Resistance		1% (in 50 Cycles)	BS EN13748-2:2004, ASTM C67

D. Physical Appearance:

- * All the units shall be sound, Surface shall be clean, good finishing, smooth, plain and free from visible defects such as projection, creepiness, crazing, cracking, fission, splitting, Scaling, pitting and efflorescence.
- * No defects shall be visible in natural day light & dry conditions from a distance of 2 meters
- * Overall color & finish of the Cement Tiles shall be practically uniform and confirming to the approved samples.
- * Permanent filling of minor voids is allowed.





TERRAZZO TILE

A. Raw Material Specification:

Raw Material Name	Description	International Standard		
Aggregates	Normal Weight, Natural, Graded, Solid, Free from Clay & Silt, Alluvial, Organic matters and other impurities	SASO 378, BS EN882, BS EN12620. ASTM-C 33		
Marble Chips	Natural, graded, Solid, Crushed, Irregular shape, Free from Clay, ferrous oxide, Alluvial, Organic matters and other impurities, selected marble without excessive flat or flakes.	SASO 378, BS EN882, BS EN12620, ASTM-C 33		
Sand/Powder	Natural, Clean, Free from salt, Dust, Clay, Silt, Organic matters and other impurities.	SASO 378, BS EN882,BS EN12620, ASTM-C 33		
Cement	Must be WPC (CEM 1-52.5N), OPC (type-1), SRC (Type-V) and Confirming to ASTM, BS and SASO Standards.	SASO143, BS EN197-1,ASTM- C 150		
Pigment	Synthetic iron Oxide, Resistant to alkalis & non fading	SASO1029, BS EN450, ASTM C 979		
Water	Clean Potable Water, Free from salt, organic & Deleterious matters and other impurities which may affect the tiles quality.	SASO1029, BS EN 13748-01, ASTM C1602 & C1603		
Admixtures	Admixtures The chemical Admixtures for the use of concrete mix must be chlorides free and confirming to the standards. SASO1029, BS E ASTM C494/C4			

B. Dimensions: (Allowable Tolerance in Dimensions)

Clause	Tolerance	International Standard
Lenght	± 1 mm	SASO 1029(GS777)-1997, BS EN13748-1:2004
Width	± 1 mm	SASO 1029(GS777)-1997, BS EN13748-1:2004
Total Thickness	±3 mm(≥40mm)	SASO 1029(GS777)-1997, BS EN13748-1:2004
Squareness (Diagonals)	_+ 1 mm	SASO 1029(GS777)-1997, BS EN13748-1:2004
Edges Straightness	±0.3 %	SASO 1029(GS777)-1997, BS EN13748-1:2004
Plane ness of upper face	±1 mm	SASO 1029(GS777)-1997, BS EN13748-1:2004

C. Physical Properties:

Test	Individual	Avg. of tested pieces	International Standard
Flexural Strength	3.5N/mm²	4 N/mm²	SASO 1029,SASO1028,BS EN13748-01, ASTM C 140, ASTM C293
Water Absorption by Face layer	-	0.4 gm/cm ²	SASO 1029/1028, BS EN13748-01, ASTM C 140
Total Water Absorption	10%	8%	SASO 1029/1028, BS EN13748-01, ASTM C 140
Abrasion Resistance (Loss of face thickness due to abrasion)	6 mm	5.2 mm	SASO 1029, SASO 1028, BS EN13748-01, ASTM C 241
Slip Resistance (Co-efficient of friction)		0.6	BS EN13748-01:2004, ASTM C1028-96
Freezing & Thawing Resistance		1% (in 50 Cycles)	BS EN13748-1:2004, ASTM C67

D. Physical Appearance:

- * All the units shall be sound, smooth, good finish & no defects (such as Cracks, Broken Edges, Pinholes, projections, Depressions, flacks, crazes, Fission, Creepiness, Splitting and efflorescence).
- * No defects should be visible in natural day light in dry conditions from a distance of 2 meters.
- * Overall color & finish of the TerrazzoTiles shall be practically uniform and confirming to the approved samples.
- * Permanent filling of minor voids is allowed.

TECHNICAL DATA SHEET

TERRAZZO SKIRTING

A. Raw Material Specification:

Raw Material Name	Description	International Standard
Aggregates	Natural, Graded, Solid, Free from Clay & Silt, Alluvial, Organic matters and other impurities	SASO 378, BS EN12620, ASTM-C 33
Marble Chips	Natural, Graded, Solid, Crushed, Irregular shape, Free from Clay, Ferrous Oxide, Alluvial, Organic matters and other impurities, selected marble without excessiveflat or flakes.	SASO 1029 RS EN12620 ASTM-C 33
Sand/Powder	Natural, Clean, Free from salt, Dust, Clay, Silt, Organic matters and other impurities.	SASO 378, BS EN12620, ASTM-C 33
Cement	OPC & WPC, should comply with ASTM, BS and SASO Standard	SASO 143, BS EN197-1, ASTM-C 150
Pigment	Synthetic iron Oxide, Resistant to alkalis & non fading	SASO 1029, BS EN450, ASTM-C 979
Water	Clean Potable Water, Free from salt, Organic & Deleterious matters and other impurities which may affect the tiles quality.	SASO 1029, BS EN13748-01, ASTM- C 1602 & C 1603
Admixture	The chemical Admixtures for the use of concrete mix should comply with the standard.	SASO 1029, BS EN934-2, ASTM-C 494/ C 494M-4

B. Dimensions: (Allowable Tolerance in Dimensions)

Clause	Available	Tolerance	International Standard
Lenght	300 mm	± 1 mm	SASO 1029, BS EN13748
Width	100 mm	±1 mm	SASO 1029, BS EN13748
Total Thickness	15 mm	±3 mm	SASO 1029, BS EN13748

C. Physical Properties:

Test	Individual	Avg. of tested pieces	International Standard
Flexural Strength	3.5 N/mm²	4 N/mm²	SASO 1029, SASO 1028, BS EN13748-10, ASTM C 140, ASTM C 293
Water Absorption by Face layer	-	0.4 gm/cm ²	SASO 1029/1028, BS EN13748-01, ASTM C 140
Total Water Absorption	10%	8%	SASO 1029/1028, BS EN13748-01, ASTM C 140

D. Physical Appearance:

- * All the units shall be sound, somooth, good finish & no defects (such as Cracks, Broken Edges, Pinholes, Projections, Depressions, Flacks, Crazes, Fission, Creepiness, Splitting and Efflorescence) shall not be visible in natural day light in dry conditions from a distance of 2 meters.
- * The overall color & finish of the units shall be practically uniform and confirming to the approved samples.





ECO TILE

A. Raw Material Specification:

Raw Material Name	Description	International Standard
Aggregates	Normal Weight, Natural, Graded, Solid, Free from Clay & Silt, Alluvial, Organic matters and other impurities	SASO 378, BS EN12620, ASTM-C 33
Sand/Powder	Natural, Clean, Free from salt, Dust, Clay, Silt, Organic matters and other impurities.	SASO 1029, BS EN12620, ASTM-C 33
Cement	Must be WPC (CEM 1-52.5N), OPC (type-1) SRC (Type-V), and Confirming to ASTM, BS and SASO Standards.	SASO 143, BS EN197-1, ASTM-C 150
Pigment	Synthetic iron Oxide, Comply with BS, ASTM Standard	SASO 1029, BS EN450, ASTM-C 979
Water	Clean Potable Water, Free from salt, organic & Deleterious matters and other impurities which may affect the tiles quality.	SASO 1029, ASTM-C 1602 & C1603, BS EN 13748
Admixture	The chemical Admixtures for the use of concrete mix must be chlorides free and confirming to the standards.	SASO 1029, ASTM C494/C494M-4

B. Dimensions: (Allowable Tolerance in Dimensions)

Clause	Available	Tolerance	International Standard
Lenght	400 mm	± 1 mm	SASO 1029, BS EN13748-2
Width	400 m m	± 1 mm	SASO 1029, BS EN13748-2
Total Thickness	40 m m	±3 mm	SASO 1029, BS EN13748-2
Squareness (Diagonals)	Within Limit	± 1 mm	SASO 1029, BS EN13748-2
Edges Straightness	Within Limit	±0.3 %	SASO 1029, BS EN13748-2
Flatness of upper face	Within Limit	±0.3 %	SASO 1029, BS EN13748-2

C. Physical Properties:

Test	Individual	Avg. of tested pieces	International Standard
Flexural Strength	5 N/mm²	6 N/mm²	SASO 1029, SASO 1028 BS EN13748, ASTM C 293
Total Water Absorption	10%	8%	SASO 1029, SASO 1028, BS EN13748, ASTM C 140
Abrasion Resistance (Loss of face thickness due to abrasion)	6 mm	5.2 mm	SASO 1029, SASO 1028, BS EN13748, ASTM C 241-91

D. LEED Requirement for Green Building (Cool Roof)

Test	Average Value	International Standard
Solar Reflectance (SR)	0.65 - 0.75	ASTM C1549-04, CRRC-1
Thermal Emittance (TE)	0.80 - 0.90	ASTM C1371, CRRC-1
Solar Reflectance Index(SRI)	0.75 - 0.85	ASTM E1980-01, CRRC-1

D. Physical Appearance:

- * All the units shall be sound, Surface shall be clean, good finishing, smooth, plain and free from visible defects such as projection, creepiness, crazing, cracking, fission, splitting, Scaling, pitting and efflorescence.
- * No defects shall be visible in natural day light & dry conditions from a distance of 2 meters.
- * The overall color & finish of the units shall be practically uniform and confirming to the approved samples.

Definitions:

Solar Reflectance (SR): Solar Reflectance is the ability of a material to reflect solar radiation (light, infrared and UV) or the percentage of Solar Energy (Sunrays) reflected by the surface into the atmosphere.

Thermal Emittance (TE): Thermal Emittance is a measure of the ability of the material to both absorb and re-radiate heat into the atmosphere. Thermal Emittance describes how efficiently a surface cools itself by emitting thermal radiation.

Solar Reflectance Index (SRI): The characteristics of cool roof properties have been combined into one single value known as the Solar Reflectance Index (SRI). It is calculated from solar reflectance and thermal emittance values. The higher the SRI, the cooler the roof will be in the sun.

HEALTH, SAFETY & ENVIRONMENT POLICY

We take pride in everyone returning home safely every day:

Arabian Tiles Co. Ltd. (ARTIC) is committed to the protection and enhancement of the environment. This will be delivered by implementing and maintaining an environmental management system that applies to services provided by its permanent offices and to its construction activities. This includes activities, products and services provided by organizations working on behalf of Arabian Tiles Co. Ltd. (ARTIC)

A summary of the Arabian Tiles Co. Ltd. (ARTIC) HS& E policy statements are posted on the designated safety notice board(s). The general manager has full access to systems available for inspection at any time.

Health, Safety & Environment Principles & Objectives:

Arabian Tiles Co. Ltd. (ARTIC) holds health and safety as a core business value and is committed to creating a future free of incidents and injuries, where:

- * All stakeholders actively create safe environments.
- *Leadership, passion and commitment are present at all levels.
- * Working safely enhances quality, improves productivity and generates value
- *Attitude and behavior replace statistics as a measure of success.
- *People are enabled to make safe choices about their own and their neighbor's safety and to challenge the environment in which they work.
- * Good safety behavior is admired, respected and recognized across the organization.
- * Peer pressure has replaced policing acting unsafely is anti-social.
- * We have a well trained & fully competent workforce actively contributing to the safe planning of their work.
- * To ensure the prevention of pollution as a result of 'ARTIC Concrete Products' operations and activities.
- * To ensure that risks are identified and controlled so that employees and others can be protected from danger





- * Our commitment to safety & long term health contributes to making us employer of first choice.
- * Our business only welcomes those who support our vision and are willing to change no compromise on safety

All employees and persons working on behalf of the company are required to understand, implement and maintain the ethos of the company's policy statement.

The routine monitoring and review of health, safety and environment issues will be undertaken by the management in combination with the consultancy, where needed.

This policy statement will be reviewed on an ongoing basis to ensure that it is continuing to reflect the requirements of the company.



Installation Of Cement Tile

1. EXECUTION

1.1 UNDER BED SCREED LAYER

- Composition: Screed concrete shall by supplied by approved ready-mix supplier in accordance with project specifications.
- Placing: Apply screed with thickness of 25 50 mm to uniform levels required.
- Screed under bed to elevation below finished floor elevation to receive the thickness of cement tile to be set by the Thin-Set Method.
- · Screed under bed to 13 mm below finished elevation or slope.
- · Screed under bed to a level true plane, pitching to drain where required.

1.2 PLACEMENT OF PRECAST CEMENT TILES

A. LAYOUT

- · Review architect's drawings for tile pattern, design layout and type of cement tile installation specified.
- · Care must be taken in setting up the cement tile layout including checking overall dimensions of the area to be tiled.
- · Check and square all areas to determine which walls and perimeters are not correct. Review layout options to compensate for any areas out of square.
- · Install control joints above control joints in subfloor.
- · When the layout is complete snap chalk lines on the key lines. Set up your grid pattern based on the tile and joint size.

B. SETTING OF CEMENT TILES

- During material handling of the cement tile always bring the pallets as close as possible to the area where the tile are being set. The tile should be inspected as they are being pulled from the pallets prior to being given to the setters for installation. The inspected and blended tile can be stacked on a cart, face-to-face and back-to-back.
- Thoroughly saturate concrete substrate with water, slush and broom with neat cement slurry (do not saturate concrete substrate with water if an epoxy bonding agent is used).
- · Apply bonding agent Synthetic bonding agent (acrylic or epoxy) may be considered.
- · Place the cement mixture in panels to top of strips.
- · Layout should be designed to avoid cement tile smaller than half size.
- Precast units shall be set on under bed. Apply Self-Leveling Underlayment to concrete floors where determined by Architect in conjunction with the cement tile contractor. Leveling coat shall be compatible with setting mortar.
- Set the cement tile by placing one edge of the tile as close as possible to the grid line and drop the tile onto the setting bed. Press the cement tile into the mortar firmly while sliding the tile back and forth in a perpendicular direction to the combed mortar.
- Carefully feel all adjacent edges of tile, maintaining less than 1/32" lippage. If any low edges are found the tile must be removed and a small amount of mortar added to the back of the tile or the setting bed and the tile reset. The setter should have a small pail of fresh thin set and a margin or pointed trowel to make minor adjustments. These adjustments will prevent lippage and give the cement tile installation a better overall appearance.
- Press cement tile into mortar bed while sliding tile back and forth in a perpendicular direction to combed mortar to achieve minimum coverage of 95%. Tile should be pulled periodically to





inspect for thin set coverage. The corners of the cement tile must have good coverage to prevent cracking.

- · Roll and compact surface until all excess cement and water has been extracted.
- * All units to be installed level, square, parallel, except where otherwise indicated in a true plane with adjacent units and other floor finishes.
- · Trowel to a uniform surface disclosing lines of divider strips.
- · Final installation shall be level and true to grade projecting edges and corner.

2. CURING

- * After completing placement of cement tile and composition has sufficiently set, cover with water, wet sand or polyethylene sheeting.
- Cure until topping develops sufficient strength to prevent lifting or pulling of cement chips during finishing/cleaning.

3. CLEANING AND SEALING

- · Wash all surfaces with a neutral cleaner.
- The liquid cleaner selected must be neutral with a pH factor between 7.0 and 10.0.
- The cleaner must also be free from any harmful alkali, acid, etc. that might damage the floor.
- · Rinse with clean water and allow surface to dry.
- · Apply sealer in accordance with manufacturer's directions.
- · Interior floor penetrating sealer shall be colorless, slip and stain resistance which will not affect color and physical properties of cement surface.

4. PROTECTION OF CEMENT FLOORING

The protection of cement flooring on the site is advisable the following precautions should be taken. The finished and partly finished flooring should be protected from damage or contamination from following trades.

- During the laying operations, the area being treated should be accessible only to the flooring operatives.
- · The completed work should not be subjected to traffic until protection has been provided.
- The cement tile should be kept clean and free from cement and plaster droppings and all materials likely to cause stains.
- Particular care should be taken with substances that could cause permanent staining, e.g.; oils, grease and paint.
- The sheeting and/or boards should be laid over the finished work to protect it; sawdust should not be used for this purpose.
- · Protect cement tiles from damage and wear during construction operation

Installation Of Terrazzo Tile - I

1. PURPOSE

Purpose of this method statement is to set guidelines and ensure good working practice for the installation of Precast Terrazzo Tiles (Floor).

2. REFERENCES

Relevant Project Standard Specifications Contract drawings Approved Shop Drawings

3. SCOPE

Installation of Terrazzo Tiles Size: 400X400X40 mm in accordance with the specification, BOQ, and contract documents.

4. MANAGEMENT & JOB DESCRIPTION AT SITE

The **Project Manager** of ARTIC is overall responsible for the implementation of this Method Statement. He will ensure that the supervisory staffs allocated for the project are aware of this MS and all resources are in Place for the successful completion of the Project. He ensures that work has been done as per the specifications & Inspections are done as per the approved ITP.

The Site Supervisor is responsible to execute the installation as per the approved MS

5. SAMPLES

ARTIC will initially submit Precast Terrazzo Tiles sample for approval of application, color and finishes. On receipt of written approval, ARTIC will start recruiting the materials and commence with the work.

6. DELIVERY, STORAGE AND HANDLING

- A. Inspection before delivery: Finished Terrazzo Tiles shall be finally verified by QCI/Production Supervisor at the factory and released for dispatch.
- **B. Packaging and Shipping:** Precast terrazzo to be palletized and shrink wrapped, delivered in original unopened packaging with legible manufacturer identification, including size, quantity, manufacturing date and inspector initials. Each Tile pallet will be handled & transported in such manner to avoid any damages during transport.
- C. Storage and Protection: Precast terrazzo tiles to be stored indoors, sheltered from moisture in original packaging. Protect from damage by other trades. Pallets should not be stacked on top of each other to avoid breakage of tiles.

7. MATERIAL INSPECTION AT SITE

ARTIC Site Supervisor will check the delivered materials prior to commence with work in accordance with approved Inspection and Testing Plan (ITP).





Any non-conformance material shall be rejected in accordance with ARTIC approved procedures, when any rejected materials offloaded due to any supply issue, material shall be segregated and identified to prevent from use until disposal or approving suitable correction action by project manager.

8. SITE PREPARATION

8.1 SITE SURVEY

- · Working area shall be inspected in accompany with Main contractor surveyor to ensure subfloor levels and marking finish floor level prior to handle to ARTIC Project Manager.
- Inspect surfaces to receive precast and do not proceed with installation of precast terrazzo tile until improper conditions have been corrected.
- Careful evaluation by the installing contractor is necessary for shrinkage cracks in concrete substrate. Technical representatives from crack isolation manufactures may need to be called in to inspect the surfaces and make recommendations before work continues.
 (Note: several manufactures of thin-set mortars offer products with limited crack bridging capabilities)
- · Inspect the defects in existing concrete work that affect proper execution of terrazzo work.
- · Any discrepancy beyond the tolerance to be brought to the notice of the Main Contractor.

8.2 SUBFLOOR INSPECTION

This is the most important step in accomplishing a satisfactory installation. The subfloor must meet the following requirements:

- · Structurally sound
- · Rigid Smooth and flat
- · Free of waxy or oily films
- Concrete surface to be steel troweled with a fine broom finish and free of sealers and curing compounds. Mechanical scarifying will be necessary if sealers or curing compounds are present in the substrate.
- · Screed must be cured to a minimum 5.5% moisture content
- The surface to receive terrazzo tile shall be plumb, level and true with square corners.

 Maximum variation from the required plane shall be 1/8" in 10 feet. Concrete surface to be steel troweled, with a fine broom finish and no curing compounds.
- · Only after the substrate is carefully inspected and meets all requirements for substrate preparation should the tile layout begin.

9. EXECUTION

9.1 UNDER BED SCREED LAYER:

- · Composition: Screed concrete shall by supplied by approved ready-mix supplier in accordance with project specifications.
- · Placing: Apply screed with thickness of 25 50 mm to uniform levels required.
- · Screed under bed to elevation below finished floor elevation to receive the thickness of Terrazzo Tile to be set by the Thin-Set Method
- · Screed under bed to 13 mm below finished elevation or slope.
- · Screed under bed to a level true plane, pitching to drain where required.

Installation Of Terrazzo Tile - II

9.2 PLACEMENT OF PRECAST TERRAZZO TILES

A. LAYOUT

- Review architect's drawings for tile pattern, design layout and type of terrazzo tile installation specified. The standard installation type is a Tile Set Installation using our Chamfered Edge Polished, Honed or Brushed finish tile set with a 1/8" minimum grout joint.
- · Care must be taken in setting up the terrazzo tile layout including checking overall dimensions of the area to be tiled.
- · Check and square all areas to determine which walls and perimeters are not correct. Review layout options to compensate for any areas out of square.
- · Install control joints above control joints in subfloor.
- · Install divider strips as shown on drawings.
- · When the layout is complete snap chalk lines on the key lines. Set up your grid pattern based on the tile and joint size.

B. SETTING OF TERRAZZO TILES

- During material handling of the terrazzo tile always bring the pallets as close as possible to the area where the tile are being set. The tile should be inspected as they are being pulled from the pallets prior to being given to the setters for installation. The inspected and blended tile can be stacked on a cart, face-to-face and back-to-back.
- Thoroughly saturate concrete substrate with water, slush and broom with neat cement slurry (do not saturate concrete substrate with water if an epoxy bonding agent is used).
- · Apply bonding agent Synthetic bonding agent (acrylic or epoxy) may be considered.
- · Place the Terrazzo mixture in panels to top of strips.
- · Layout should be designed to avoid terrazzo tile smaller than half size.
- Precast units shall be set on under bed. Apply Self-Leveling Underlayment to concrete floors where determined by Architect in conjunction with the terrazzo tile contractor. Leveling coat shall be compatible with setting mortar.
- Set the terrazzo tile by placing one edge of the tile as close as possible to the grid line and drop the tile onto the setting bed. Press the terrazzo tile into the mortar firmly while sliding the tile back and forth in a perpendicular direction to the combed mortar.
- Carefully feel all adjacent edges of tile, maintaining less than 1/32" lippage. If any low edges are found the tile must be removed and a small amount of mortar added to the back of the tile or the setting bed and the tile reset. The setter should have a small pail of fresh thin set and a margin or pointed trowel to make minor adjustments. These adjustments will prevent lippage and give the terrazzo tile installation a better overall appearance.
- Use 1/4" x 3/8" U notched trowel for 1/2" thick tile or 1/4" x 1/2" U notched trowel for 5/8" and 7/8" thick tile.
- Press terrazzo tile into mortar bed while sliding tile back and forth in a perpendicular direction to combed mortar to achieve minimum coverage of 95%. Tile should be pulled periodically to inspect for thin set coverage. The corners of the terrazzo tile must have good coverage to prevent cracking.
- · Roll and compact surface until all excess cement and water has been extracted.
- · All units to be installed level, square, parallel, except where otherwise indicated in a true plane with adjacent units and other floor finishes.





- · Trowel to a uniform surface disclosing lines of divider strips.
- Joints shall be raked to the depth of at least 19 mm and shall be pointed with a grout matching the color of the matrix.
- Follow the Project's technical specifications for over all structural expansion joints and divider strips.
- · Final installation shall be level and true to grade projecting edges and corner.

10. CURING

- · After completing placement of terrazzo and composition has sufficiently set, cover with water, wet sand or polyethylene sheeting.
- Cure until topping develops sufficient strength to prevent lifting or pulling of terrazzo chips during grinding.

11. FINISHING

11.1 ROUGH GRINDING

- · Grind with 24 or finer grit stones or with comparable diamond plates.
- · Follow initial grind with 80 or finer grit stones.

11.2GROUTING

Immediately following rough grinding, Surfaces shall be carefully and completely cleaned with sufficient clean water to remove dust and fines. Rinse thoroughly with cleaner. Remove excess rinse water and apply paste consistency Portland cement grout of type employed in the topping by hand or machine with pigment added in like amounts where called for in matrix. Take care to fill all voids.

11.3 CURING GROUT

As soon as the grout has obtained initial set, cover the entire surface with the specified curing material. Allow to remain indefinitely to protect finishes until final polishing.

11.4FINE STONING (POLISHING)

- Final machine grinding shall not take place sooner than three days following the grouting. The grouting shall be removed by means of floor machines using No.80 or finer grit stones. Upon completion of the final grinding, the terrazzo finish shall show an average of not less than 70-75% of marble chips.
- · All finished surfaces to be ground and polished, free of holes and to have overall uniformity in matrix and aggregate.

11.5CLEANING AND SEALING

- · Wash all surfaces with a neutral cleaner.
- The liquid cleaner selected must be neutral with a pH factor between 7.0 and 10.0.
- · The cleaner must also be free from any harmful alkali, acid, etc. that might damage the floor.
- · Rinse with clean water and allow surface to dry.

Installation Of Terrazzo Tile - III

- · Apply sealer in accordance with manufacturer's directions.
- · Interior floor penetrating sealer shall be colorless, slip and stain resistance which will not affect color and physical properties of terrazzo surface.

11.6 SHINING

The site should be shined after all this by using oxalic acid.

12. PROTECTION OF TERRAZZO FLOORING

The protection of terrazzo and granite flooring on the site is advisable the following precautions should be taken. The finished and partly finished flooring should be protected from damage or contamination from following traded.

- During the laying and grinding operations, the area being treated should be accessible only to the flooring operatives.
- · The completed terrazzo work should not be subjected to traffic until protection has been provided.
- The terrazzo should be kept clean and free from cement and plaster droppings and all materials likely to cause stains.
- The particular care should be taken with substances that could cause permanent staining, e.g.; oils, grease and paint.
- The sheeting and/or boards should be laid over the finished work to protect it; sawdust should not be used for this purpose.
- · Protect terrazzo from damage and wear during construction operation

13. TERRAZZO FLOORING MAINTENANCE

- The terrazzo Floors can usually be cleaned effectively by washing or scrubbing with warm water and a neutral sulphate free detergent suitable for cleaning terrazzo.
- · Greasy deposits can be removed by detergent incorporating an organic solvent.
- The occasionally use of mild abrasive cleaners can be beneficial in removing stubborn marks, but household soaps are not recommended as they tend to leave a slippery scum, particularly in hand-water areas.
- The regular use of scrub and rinse cleaning machines fitted with abrasive pads other than the finest grades, or the use of machines with hard plastics bristles could result in damage to the surface of terrazzo.
- The damage could also be caused by frequent use of unsuitable cleaning agents, including highly acidic or alkaline detergents and chemicals.
- Resistance to staining can be increased by the use of certain proprietary chemical hardeners and sealing enhance the appearance of the terrazzo, but care should be taken to ensure that sealers have been manufactured for use on terrazzo.
- The wrong type of treatment can cause floors to become slippery; the wax polished and linseed oil should never be used.
- The soaps containing water soluble, inorganic salts or crystallizing salts should never be used in the maintenance of terrazzo; some terrazzo floors have been damages by improper selection of cleaning materials.





14. INSPECTION AND TESTING OF TERRAZZO FLOORING

14.1 INSPECTION

The work should be inspected during progress and after completion. Special attention being paid to the following:

- · The materials are as specified.
- · The preparation of the under bed layer.
- · The surface texture and finish.
- · Levels and surface regularity.

14.2TESTS

The test specimens can be taken during manufacturing process or from the delivered quantity may be carried out for the followings tests in accordance with relative standards:

- The flexural strength
- The compressive strength
- · Total water absorption
- · The absorption by face
- · The abrasion resistance

PROJECT NAME	PROJECT LOCATION
King Abdullah Petroleum Studies And Research Center -KAPSARC	Riyadh
King Abdullah Financial District	Riyadh
King Abdullah Road Phase 2	Riyadh
Jabal Omar Development Project	Riyadh
Riyadh Metro Project	Riyadh
Al-Thumama Place development	Riyadh
Private Palace And Villas	All over KSA
Riyadh Airport Housing	Al Rashid Lois Builders Riyadh
Technical Colleges	All Over KSA
National Technology Institute	Youssef Marroun Al Ahsa
Reem & Balma Housing Compounds	Al Habib Real Estate
Al Baha University	Al Arrab Baha City



PROJECT LOCATION
Riyadh
Assad Said Contractors — Al Kharj
Arabian BEMCO, Arabtech Qassim — Al Ahsa
Jizan
All Over KSA
Riyadh
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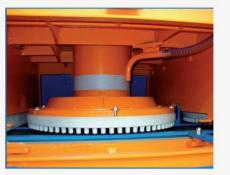
























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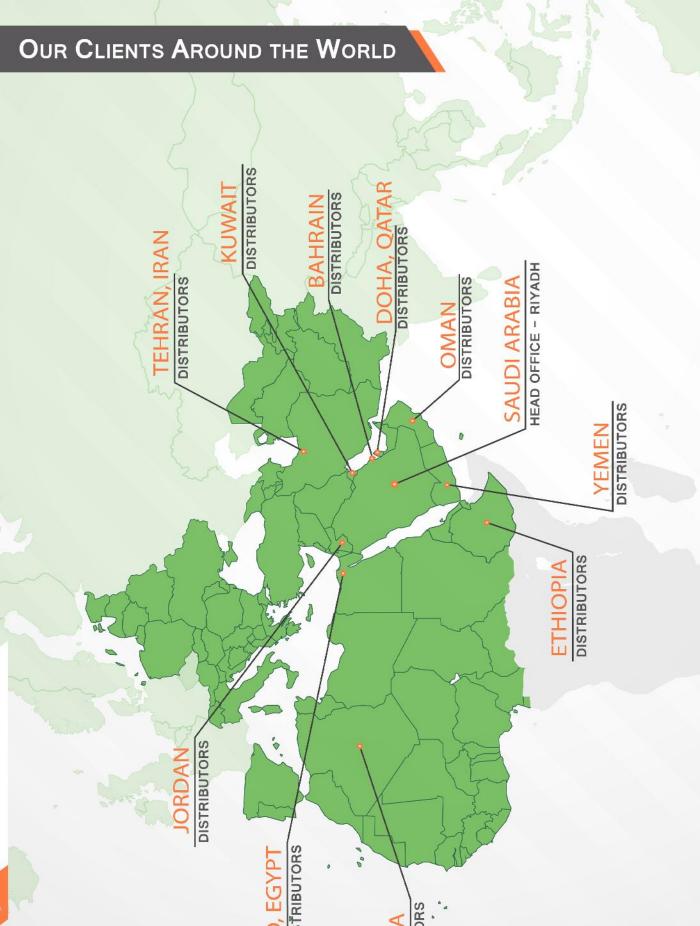
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