



مجموعة محمد الخوري ذ.م.م.
Mohammed Al Khoori Group L.L.C.



الصخر للصناعات الاسمنتية (كيربستون)
شركة الشخص الواحد ذ.م.م.
Rock Cement Industries (Kerbstone)
Sole Proprietorship L.L.C.



بلوك ماستر للصناعات
شركة الشخص الواحد ذ.م.م.
Block Master Industries
Sole Proprietorship L.L.C.



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



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شركة الشخص الواحد ذ.م.م.
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Introduction

مقدمة

Since 1996 Rock Cement Industries (kerbstone) manufactures and supplies **Hollow/Solid/ Hourdi Concrete Blocks, Insulated Blocks & Interlocking Tiles of the very highest quality.**

Our Products, which are certified under **ISO 9001-2015, ISO 14001-2015 and ISO 45001:2018 and in-Country Value (ICV) Program** for ADNOC Group Companies, Regulations in a wide range of shapes and sizes, are made using the most up –to – date German technology.

The most prestigious **"Sheikh Khalifa Industry Award"** has been awarded to RCI for excellence in industrial practice.

Our modern factory in Mussafah, which covers an area of 450000 square feet, is equipped with the latest computer controlled hydraulic vibration production machinery operated by fully trained and experienced professional engineers and technicians.

Our daily production capacity is between 150,000 blocks to 300,000 blocks, depending on their size and also 12000m² for interlock tiles daily. This, together with our extensive storage area and fleet of well maintained trucks, enables Rock Cement Industries to render the best possible service to our customers at all times.

نتشرف أن نقدم ونعرف لكم الصخر للصناعات الإسمنتية (كيربستون) كمصنع حديث قائم في منطقة مصفح على مساحة 450.000 قدم مربع وقد تأسس المصنع عام 1996 حيث يركز على أحدث المعدات ذات التقنية العالية من ألمانيا الغربية والمهندسين والفنيين من ذوي الخبرة والقدرة في هذا المجال، وذلك لضمان إنتاج نوعية جيدة وكفاءة عالية من الجودة.

وتعمل الأجهزة بنظام الإهتزاز الهيدروليكي، وتتحكم برامج الكمبيوتر بجميع مراحل التشغيل ويقوم المصنع بإنتاج الطابوق الإسمنتي والطابوق العازل والبلاط المتشابك (الإنترلوك) بمقاسات وأحجام وأشكال مختلفة.

وتبلغ الطاقة الإنتاجية اليومية من مائة وخمسون ألف إلى ثلاثة مائة ألف طابوق في اليوم حسب الأحجام والأنواع. أما بالنسبة إلى البلاط المتشابك فتبلغ الطاقة الإنتاجية اليومية إلى اثنا عشر ألف م².

ويدعم المصنع كادر مؤهل من الموظفين وطاقة تخزينية من خلال ساحات التخزين وأسطول من السيارات لتقديم أفضل وأسرع الخدمات الممكنة.

ومما يدعم من جودة منتجات المصنع حصولنا على شهادة الجودة **ISO 9001-2015, ISO14001-2015, ISO 45001:2018** و **in-Country Value (ICV)Program** لمجموعة أدنوك وكذلك جائزة الشيخ خليفة للصناعة.

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المصنع

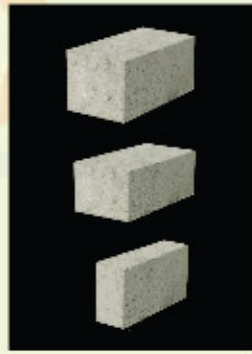
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الصخر للصناعات الاسمنتية (كيربستون) Rock Cement Industries (Kerbstone)
شركة الشخص الواحد ذ.م.م. Sole Proprietorship L.L.C.

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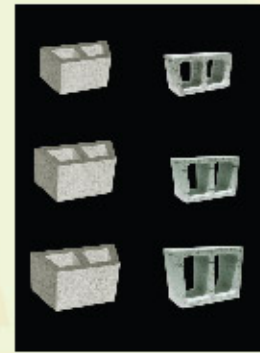
SOLID Blocks



HOLLOW Blocks



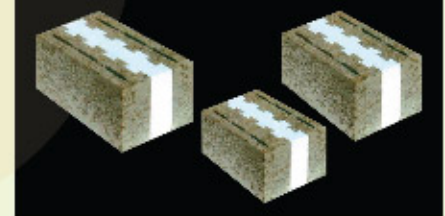
THROUGH HOLLOW Blocks



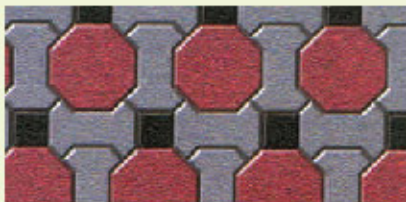
HOURDI Blocks



UNI Pavers



INSULATED Blocks



QUADRO Pavers
(VARIO)



3D-V-SHAPE Pavers



La Plaza Pavers



RECTANGULAR Pavers





Process Control

Once the materials are arranged, the automatic production process starts. All are controlled by PLCs. The raw materials which are stored in the hoppers is weighed according to the recommended mix - parameters and fed in the lifting bucket which transfer the material to the mixer.

There the cement is added and mixed for few seconds before feeding water. Feeding of water is controlled by a highly sophisticated moisture controller to attain maximum consistency of the mix. Then the mixed material is discharged to a hopper located above the block machine.

Now the filling box moves on to the moulding box, which is resting on a steel pallet on top of the frequency controlled vibration table. The table vibrates in different frequencies to fill the material in the mould box. After a certain filling time the filling box moves back to give way for the compaction head to compress the material. The vibration and compaction will continue until reaching the required height for the concerned product (the average cycle time for blocks being 18 secs and 14 secs for paving tiles, capable of producing 4000 cycles per day) Then the demoulding occurs. The steel pallet with blocks, ejects from the machine to a conveyor which conveys the pallets into the stacking machine capable of storing 18 pallets. From the stacking machine the finger car (capacity 15 tons combined weight with blocks) transfers the green products to the curing chambers . There the blocks are cured for 72 hours before discharging .

The cured products which are discharged from the chambers stacked and stored in the yard. The blocks are tested according to BS6073 and the paving tiles are tested as per the specification BS 6717, to determine the compressive strength. Then the products are approved for delivery by the Q/E.





Production Steps



1- Raw Materials Storage



2- Raw Materials Feeding



3- Weighing Scale



4- Material Transport



5- Block Machine



6- Elevator / Finger Car



7- Finger Car At Lowerator



8- Finger to the Chamber



9- Curing Chamber



10- Cubing System



Strapping



12- Handling



13- Stock Yard



14- PLC Controlled Operating System



15- Quality Control

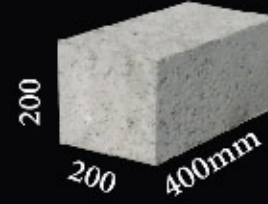
16- Delivery





SOLID Blocks

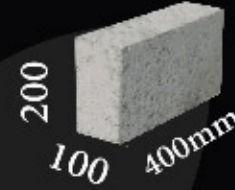
20 SB SOLID Block 20cm (8")



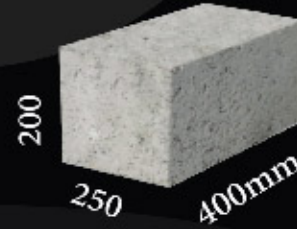
15 SB SOLID Block 15cm (6")



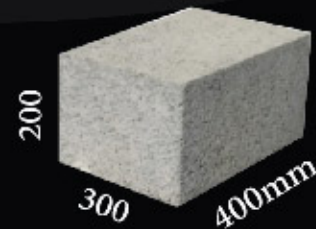
10 SB SOLID Block 10cm (4")



25 SB SOLID Block 25cm (10")



30 SB SOLID Block 30cm (12")



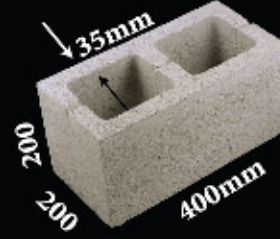
Code	Block Description	Weight Per pcs (kg)	Pcs per Bundle	Bundle per Trailer	Pcs per Trailer
20SB	SOLID Block 20cm (8")	35	48	28	1344
15SB	SOLID Block 15cm (6")	27	64	28	1792
10SB	SOLID Block 10cm (4")	16	88	28	2464
25SB	SOLID Block 25cm (10")	48	48	28	1344
30SB	SOLID Block 30cm (12")	52	36	28	1008



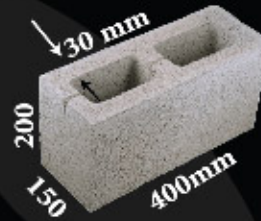


HOLLOW Blocks

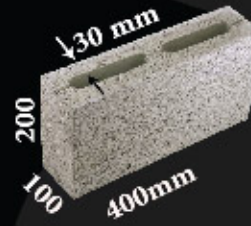
20 HB HOLLOW Block 20cm (8")



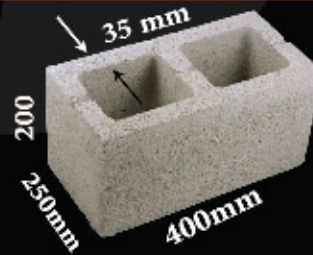
15 HB HOLLOW Block 15cm (6")



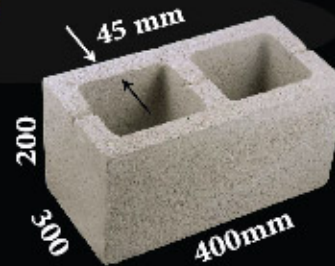
10 HB HOLLOW Block 10cm (4")



25 HB HOLLOW Block 25CM (10")



30 HB HOLLOW Block 30cm (12")

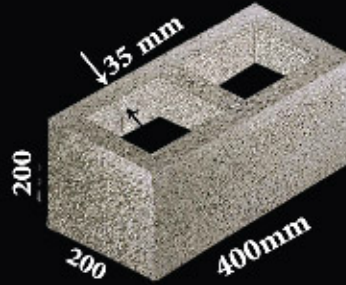


Code	Block Description	Weight per pcs (kg)	Pcs per Bundle	Bundle per Trailer	Pcs per Trailer
20HB	HOLLOW Block 20cm (8")	21.5	72	28	2016
15HB	HOLLOW Block 15cm (6")	16.5	96	28	2688
10HB	HOLLOW Block 10cm (4")	13.5	144	22	3168
25HB	HOLLOW Block 25cm (10")	26	60	28	1680
30HB	HOLLOW Block 30cm (12")	33	48	28	1344



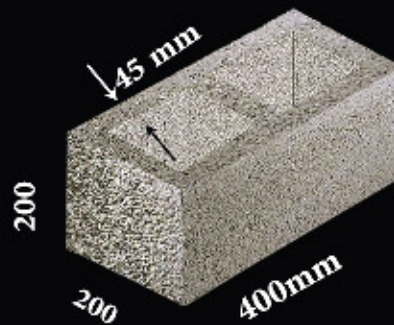


Special HOLLOW Blocks



THROUGH HOLLOW Block

Code	Block Description	Weight per pcs (kg)	Pcs per Bundle	Bundle per Trailer	Pcs per Trailer
20HBT	THROUGH HOLLOW Block 20cm (8")	20.5	72	28	2016



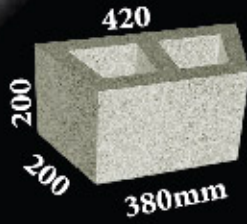
HOLLOW Load Bearing Block

Code	Block Description	Weight per pcs (kg)	Pcs per Bundle	Bundle per Trailer	Pcs per Trailer
20HB-LB	HOLLOW Load Bearing Block 20cm (8")	25.5	72	25	1800





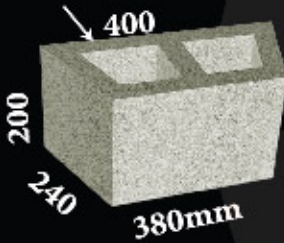
HOURDI Blocks



20HR B/C HOURDI Block
(Bottom Closed) 20cm (8'')



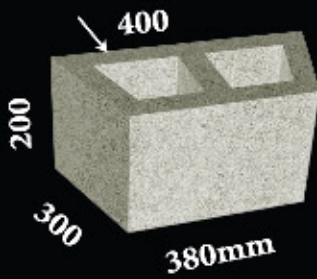
20HR HOURDI Block 20cm (8'')



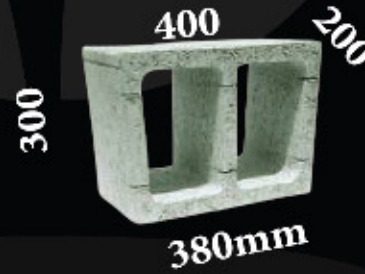
24HR B/C HOURDI Block
(Bottom Closed) 24cm (10'')



24HR HOURDI Block 24cm (10'')



30HR B/C HOURDI Block
(Bottom Closed) 30cm (12'')



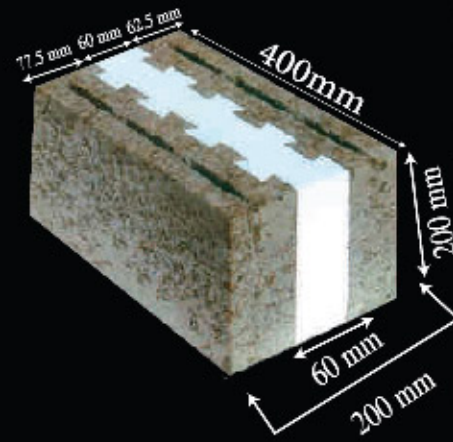
30HR HOURDI Block 30cm (12'')

Code	Block Description	Weight per pcs (kg)	Pcs per Bundle	Bundle per Trailer	Pcs per Trailer
20HR	HOURDI Block 20cm (8'')	19	72	28	2016
20HRB/C	HOURDI Block (Bottom Closed) 20cm (8'')	21.5	72	28	2016
24HR	HOURDI Block 24cm (10'')	20.5	60	28	1680
24HR B/C	HOURDI Block (Bottom Closed) 24cm (10'')	24.5	60	28	1680
30HR	HOURDI Block 30cm (12'')	22.5	48	28	1344
30HR B/C	HOURDI Block (Bottom Closed) 30cm (12'')	25.5	48	28	1344





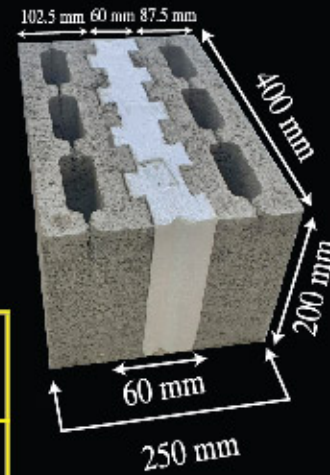
INSULATED - THERMO BLOCKS



Insulated Block 20cm (8'')

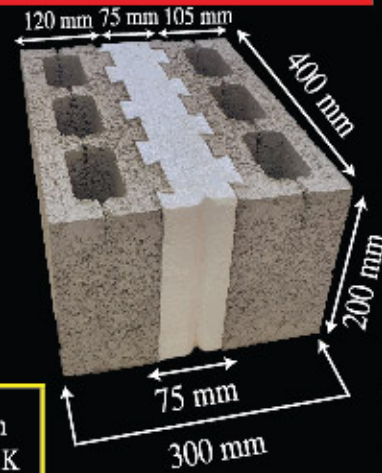
Code	Block Description	Polystyrene insert Thickness	Type of Styrene	U-Value in W/SQMTS K
20 IN 60 mm	200mm Thermal Insulation Block	60mm	Expanded	0.405

Insulated Block 25cm/60mm (10'')



Code	Block Description	Polystyrene insert Thickness	Type of Styrene	U-Value in W/SQMTS K
25 IN 60 mm	250mm Thermal Insulation Block	60mm	Expanded	0.396

Insulated Block 30cm/75mm (12'')



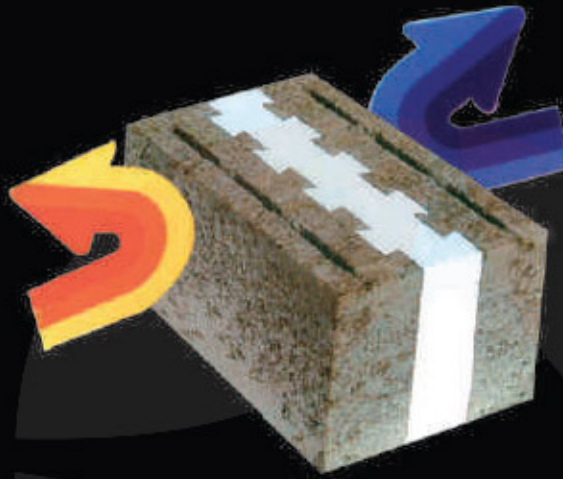
Code	Block Description	Polystyrene insert Thickness	Type of Styrene	U-Value in W/SQMTS K
30 IN 75 mm	300mm Thermal Insulation Block	75mm	Expanded	0.398





INSULATED - THERMO BLOCKS

The u-value of building components (walls, roof, windows) is a measurement for heat transfer which passes between room and exterior and which must be replaced by cool air produced by airconditioners.



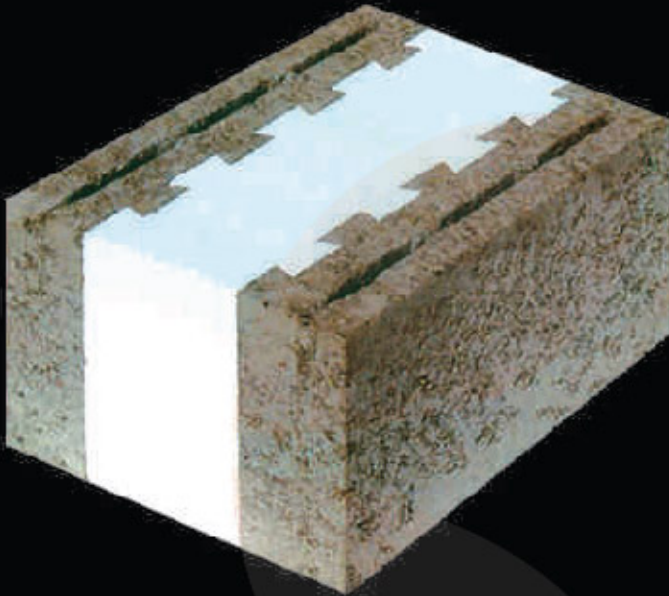
Therefore a low u-value is key to savings in A/C cost and mandatory for comfortable living conditions in summer as well as winter.

7 Convincing values for energy saving construction:

- 1 Very High Value of Thermal Transmission, 6 times less than the normal blocks.
- 2 Excellent Thermal Storage Capacity & Energy Saver.
- 3 Very Good Acoustic Properties.
- 4 High compressive strength.
- 5 Block made with Dubai Central LAB approved polystyrene inserts (60 mm , 75 mm , 110 mm ,160 mm).
- 6 All our blocks are produced with international standards and complies with Dubai Central LAB & Estidama Standards.
- 7 Half Blocks available – reduces waste.



INSULATED - THERMO BLOCKS



Expanded V - Groove Insert

Available in the following Sizes:

60mm - 75mm - 110mm - 160mm

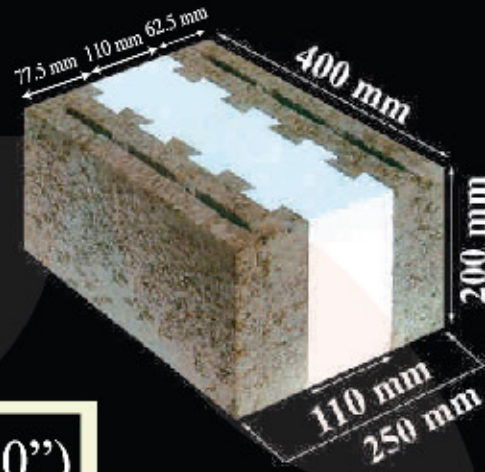
With Polystyrene DENSITY (22 to 25) kg/m³





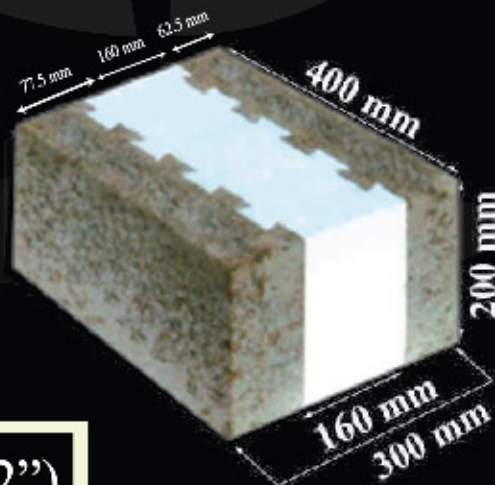
INSULATED - THERMO BLOCKS

ESTIDAMA Requirement



Insulated Block 25cm/110mm (10'')

Code	Block Description	Polystyrene insert Thickness	Type of Styrene	U-Value in W/SQMTS K	ESTIDAMA Requirement in W/SQMTS K
25 IN 110 mm	250mm Thermal Insulation Block	110mm	Expanded	0.276	0.310



Insulated Block 30cm/160mm (12'')

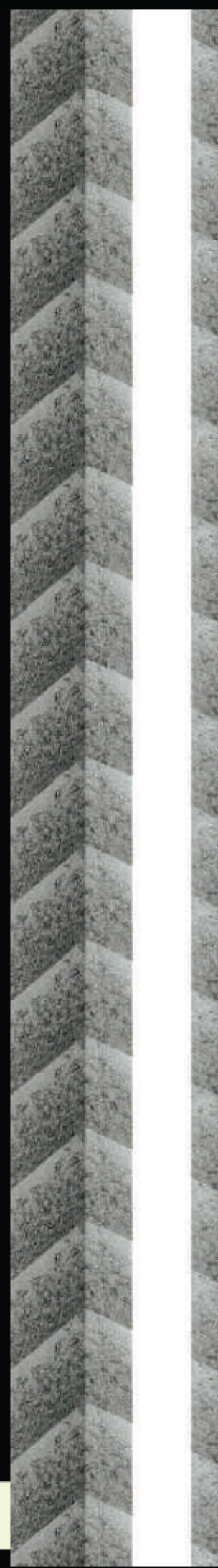
Code	Block Description	Polystyrene insert Thickness	Type of Styrene	U-Value in W/SQMTS K	ESTIDAMA Requirement in W/SQMTS K
30 IN 160 mm	300mm Thermal Insulation Block	160mm	Expanded	0.192	0.220

TECHNICAL DATA



HOLLOW AND SOLID BLOCKS										
Technical Data	100 MM HOLLOW BLOCK	150 MM HOLLOW BLOCK	200 MM HOLLOW BLOCK	250 MM HOLLOW BLOCK	300 MM HOLLOW BLOCK	100 MM SOLID BLOCK	150 MM SOLID BLOCK	200 MM SOLID BLOCK	250 MM SOLID BLOCK	300 MM SOLID BLOCK
Blocks per m ³ in nos	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
Wall thickness in (mm)	30mm	30mm	35mm	35mm	45mm	N/A	N/A	N/A	N/A	N/A
Block dimensions in mm (T x H x L)	100x200x400	150x200x400	200x200x400	250x200x400	300x200x400	100x200x400	150x200x400	200x200x400	250x200x400	300x200x400
Block weight in kg	13.5	16.5	21.5	24	33	16	27	35	41	52
Compressive strength in (N/mm ²) BS6073 Standard	7.5	7.5	7.5	7.5	7.5	12.5	12.5	12.5	12.5	12.5
Compressive strength in (N/mm ²) ASTM C140 Standard	12.2	13.3	12.5	12.9	12.5	15.2	15.2	15.2	14.9	15.3
u-value as block (W/m ² K)	3.534	3.322	3.106	3.049	2.778	4.525	3.984	3.559	3.205	2.924
Water absorption in (%)	6.9	6.7	7	7	7.2	5.9	5.7	6	6	6.1
Density (kg/m ³)	1710	1510	1410	1410	1370	2210	2110	2210	2270	2190
Acoustic in (db)	51 db	53 db	56 db	57db	60 db	53 db	57 db	61 db	64 db	67 db
Fire rating (hrs)	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	4 hrs	4 hrs	4 hrs	4 hrs	4 hrs

INSULATED -THERMO BLOCKS										
Technical Data	200 mm with 60mm expanded polystyrene insert	250 mm with 60mm expanded polystyrene insert	250 mm with 60mm expanded polystyrene insert	250 mm with 60mm expanded polystyrene insert	250 mm with 110mm polystyrene expanded insert	300 mm with 75mm expanded polystyrene insert	300 mm with 160mm expanded polystyrene insert			
Blocks per m ³ in nos	12.5	12.5	12.5	12.5	12.5	12.5	12.5			
Wall thickness in mm	25mm	25mm	25mm	25mm	25mm	25mm	Solid			
Block dimensions in mm (T x H x L)	200x200x400	250x200x400	250x200x400	250x200x400	250x200x400	300x200x400	300x200x400			
Concrete size Left/Insert Size/ Concrete size Right ± 2 mm (Deviation)	77.5+60+62.5 mm mm mm	102.5+60+87.5 mm mm mm	102.5+60+87.5 mm mm mm	102.5+60+87.5 mm mm mm	77.5+110+62.5 mm mm mm	120+75+105 mm mm mm	77.5+160+62.5 mm mm mm			
Block weight in kg	23	25	25	25	24	27	24			
Compressive strength (N/mm ²) BS6073 Standard	7.5	7.5	7.5	7.5	7.5	7.5	7.5			
Compressive strength (N/mm ²) ASTM C140 Standard	12.3	12.3	12.3	12.3	13	13.1	13.3			
u-value as block (W/m ² K)	0.405	0.396	0.396	0.396	0.276	0.398	0.192			
Water absorption in %	6.5	6.5	6.5	6.5	6.5	6.3	6.5			
Density (kg/m ³)	1410	1410	1410	1410	1170	1330	1110			
Acoustic in (db)	57 db	59 db	59 db	59 db	54 db	60 db	61 db			
Fire rating (hrs)	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs			





Specifications of Concrete Paving Tiles

1. **ROCK CEMENT INDUSTRIES** manufactures concrete paving blocks in the thickness of 60mm, 80mm and 100mm. The shape, thickness and colour will be subject to the approval of the customer.
2. The following is the specification requirements of precast concrete paving blocks intended for construction of low speed roads, and industrial and other paved surfaces subjected to all categories of static and vehicular loading and pedestrian traffic.
3. The cement used in the manufacture of concrete paving blocks shall, unless stated otherwise, be Sulphate Resisting Cement which complies with the requirements of B.S 4027/ASTM-Type V if Ordinary Portland Cement be used it shall comply with the requirements of B.S 12. Ordinary Portland Cement.
4. **THE CEMENT CONTENT:** The Cement Content shall be not less than 420 Kg/Cu.M. concrete.
5. **COLOURED BLOCKS:** The coloured concrete paving blocks shall have a minimum content of inorganic pigment of 5% by weight of the Cement Content and according to manufacturer's instructions. All pigments to comply with BS-1014.
6. **AGGREGATES:** shall be crushed rock complying with BS-882 free from earth, clay, loam and soft clay. Sampling and testing in accordance with BS-812. The amount of material passing a BS 75 micron sieve in the combined aggregates when tested in accordance with BS 812 (wet sieving method), shall not exceed the following limits -
Fine aggregates : 3% by weight.
Coarse aggregates : 1% by weight.
7. **MIXING WATER:** For mixing concrete, water shall be potable and free from all sediments and dissolved or suspended matter which may be harmful to the manufacture of concrete as specified and shall be tested in accordance with BS 3148.
8. **SIZES AND TOLERANCES:** Concrete paving blocks have a work size thickness of 100mm, 80mm and 60mm and shall have a peripheral chamfer on the top edge. The maximum dimensional deviations from the stated work size are as follows:
Length : +/- 2mm Width : +/- 2mm Thickness : +/- 3mm
9. **COMPRESSIVE STRENGTH:** The compressive strength of blocks, when tested in accordance with the BS6717 Part 1, 1986, should not be less than 40N/mm² (as individual) and combination of 10 pcs interlock will be 49N/mm² as average per interlock.
10. **WATER ABSORPTION:** The concrete paving blocks when tested upon as specified in BS 1881 - the maximum limits of water absorption shall be as follows:
2% absorbed after 10 minutes
5% absorbed after 24 hours.
11. **CURING:** Adequate measures shall be taken to ensure that the blocks are properly cured before delivery to the site, and we have added advanced forced curing technology to our curing chambers to improve our block strength. we are handling blocks in packing after 24hrs of production.



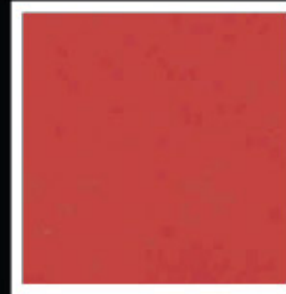


Colours

Paving tiles with the following Colours will be available:



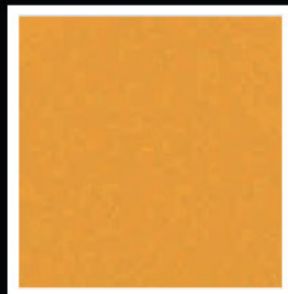
BLACK



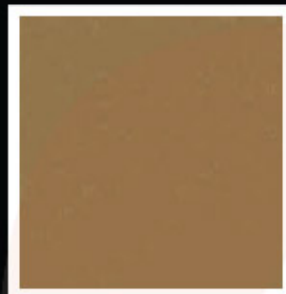
RED



GREY



TAN



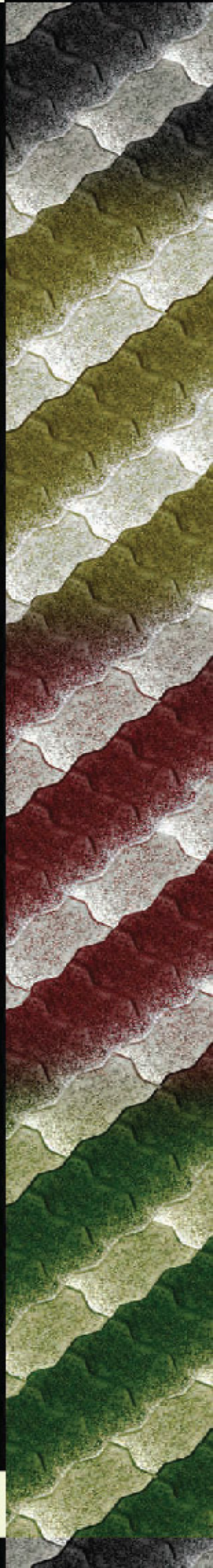
BROWN



GREEN



YELLOW

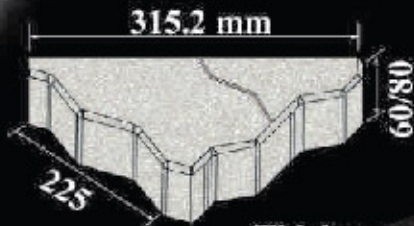


**N.B. The Colours shown are for presentation only,
Samples of tiles can be provided upon request.**

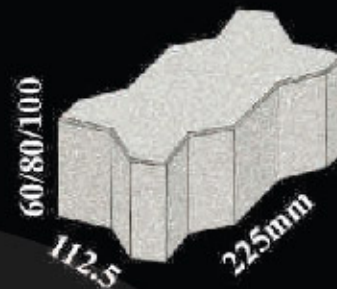




UNI Pavers

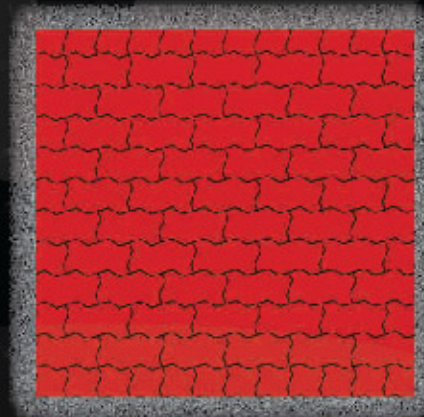
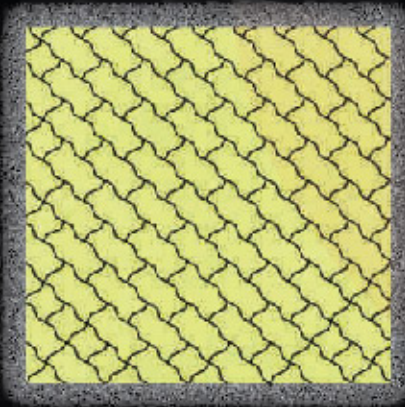


Thickness 6cm / 8cm / 10cm



UNI Starter

UNI Pavers

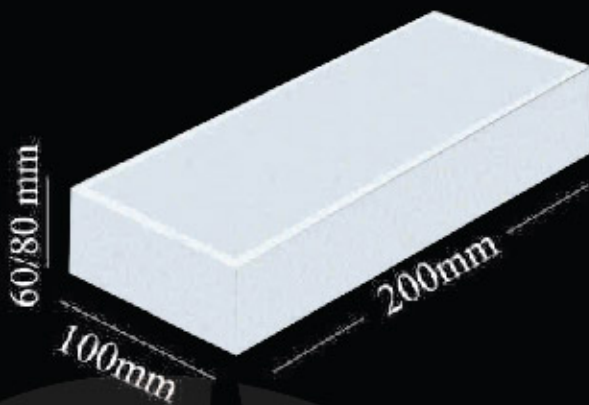


Block Description	Weight of pes (kg)	Pieces/M ²	M ² /Per Bundle	Bundle per Trailer	M ² /Per Trailer
60mm UNI	3.5	39	13.5	24	324
80mm UNI	4.5	39	9.0	28	252
100mm UNI	5.7	39	9.0	24	216
60mm UNI STARTER	4.2	33	10.95	24	262
80mm UNI STARTER	5.6	33	7.3	28	205



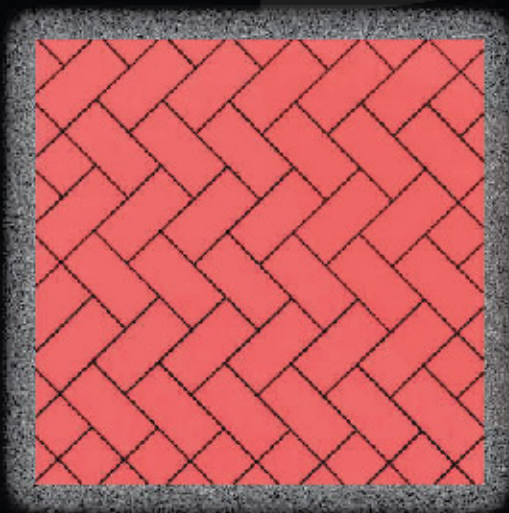


RECTANGULAR Pavers 10 x 20



Thickness 6cm / 8cm

Block Description	Weight of pcs (kg)	Pieces/M ²	M ² /Per Bundle	Bundle per Trailer	M ² /Per Trailer
60mm RECTANGULAR 10x20	2.7	50	14.4	24	346
80mm RECTANGULAR 10x20	3.7	50	9.6	28	268



RECTANGULAR Pavers 15 x 30



Block Description	Weight Per pcs (kg)	Pieces/M ²	M ² /Per Bundle	Bundle per Trailer	M ² /Per Trailer
60mm RECTANGULAR 15x30	5.8	21.4	13.44	24	322



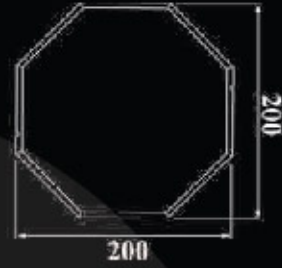


QUADRO Pavers (VARIO)



OCTAGONAL

Thickness 6cm / 8cm



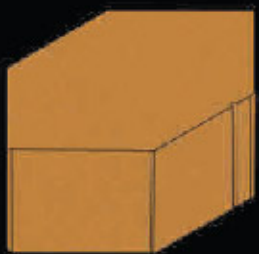
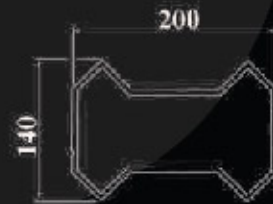
CUBE

Thickness 6cm / 8cm



I-SHAPE

Thickness 6cm / 8cm



RHOMBUS

Thickness 6cm

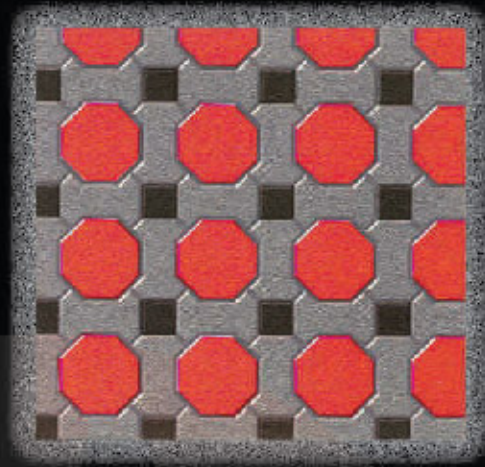


Block Description	Weight Per pcs (kg)	Pieces/M ²	M ² /Per Bundle	Bundle per Trailer	M ² /Per Trailer
60mm OCTAGONAL	4.5	30	12	26	312
60mm CUBE	0.8	156	12	24	288
60mm I-SHAPE	2.6	48	13.13	26	342
60mm RHOMBUS	2.2	60	11.5	26	299
80mm OCTAGONAL	6.0	30	8.0	28	224
80mm CUBE	1.0	156	8.0	28	224
80mm I-SHAPE	3.5	48	8.8	22	193

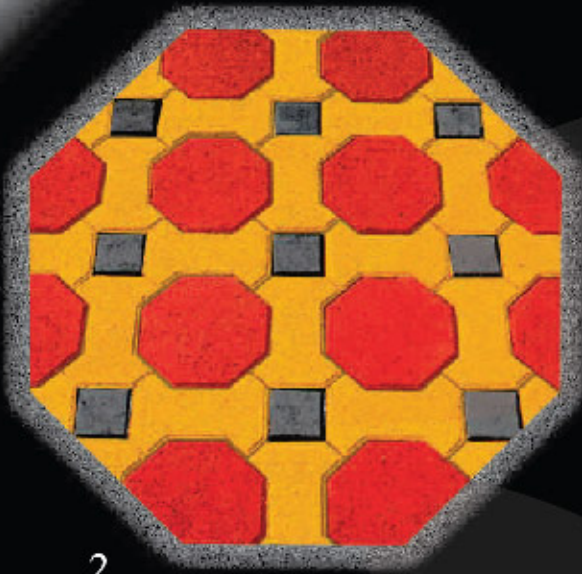




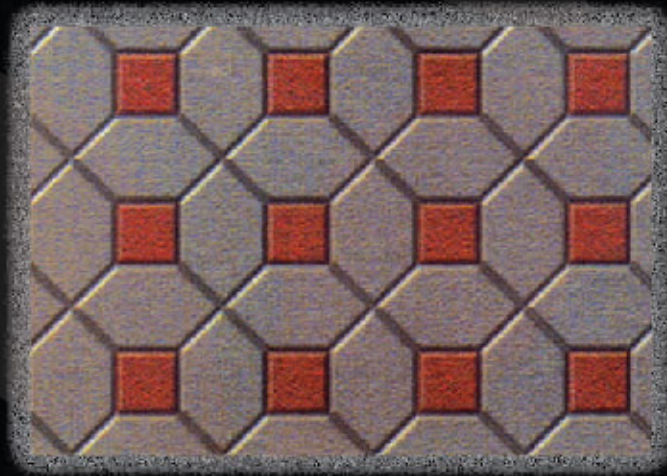
QUADRO Pavers (VARIO)



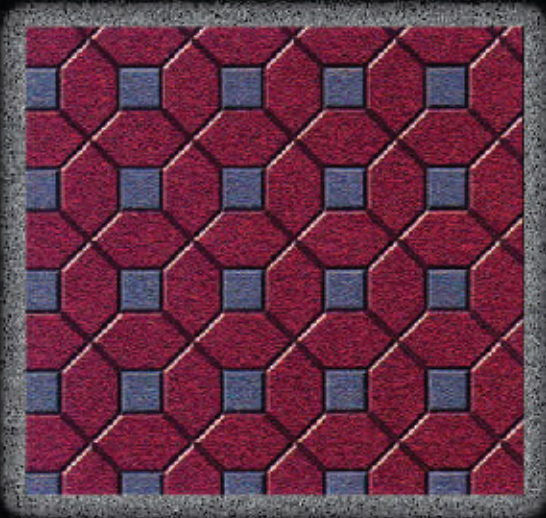
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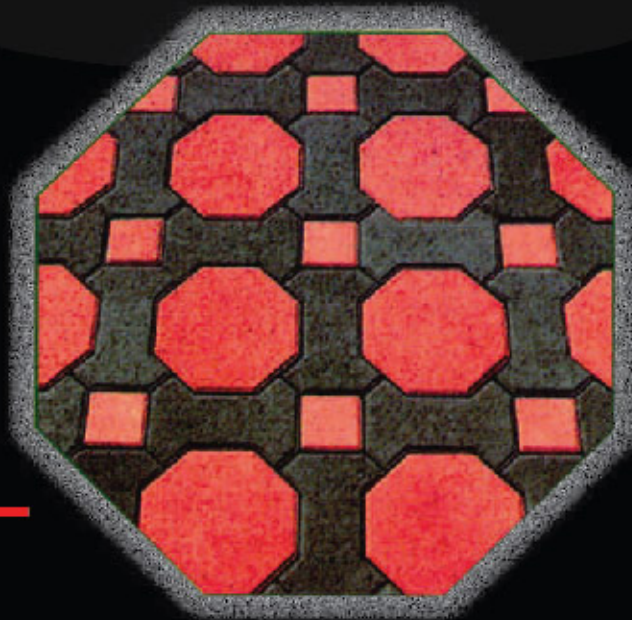
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3



4

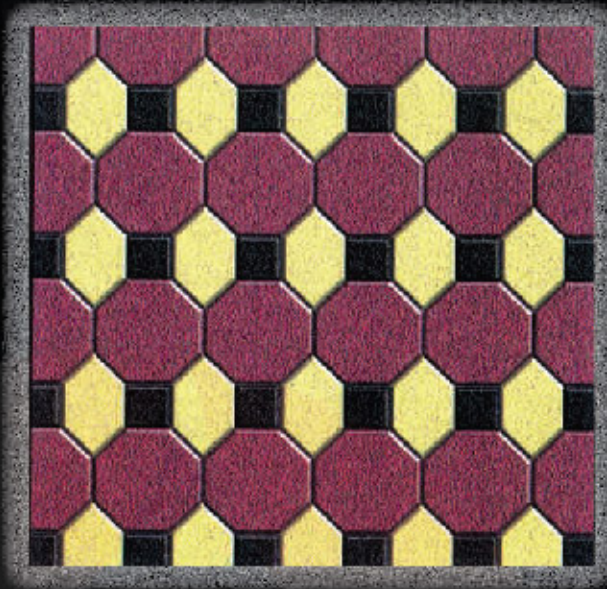


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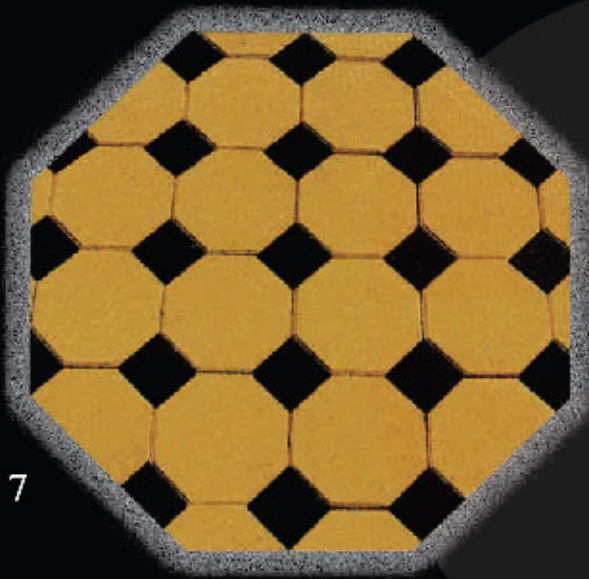




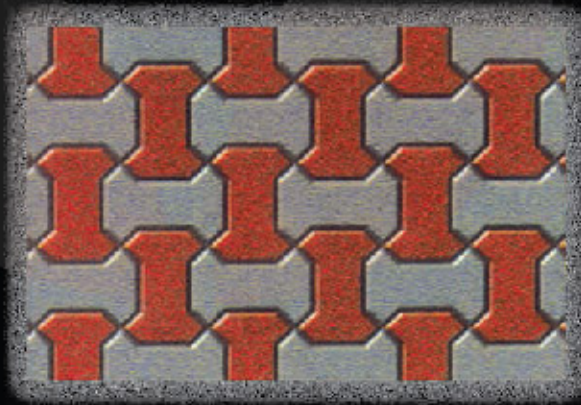
QUADRO Pavers (VARIO)



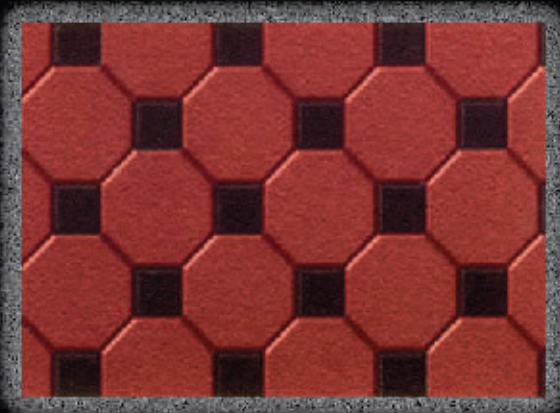
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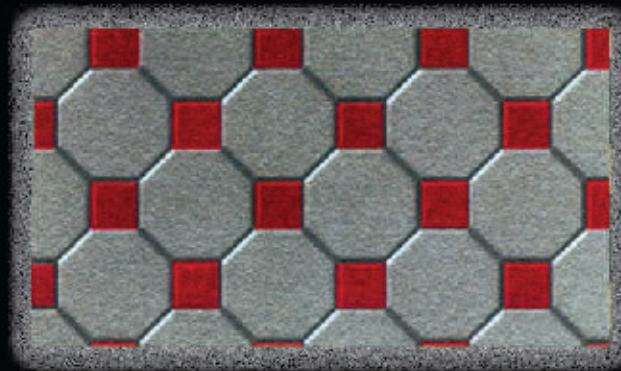
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8



9

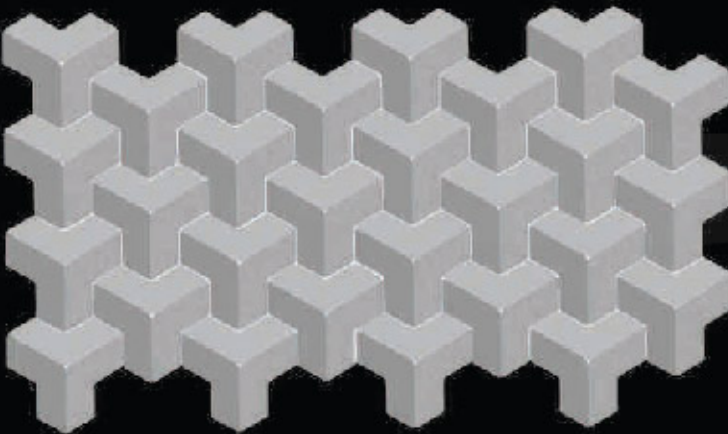
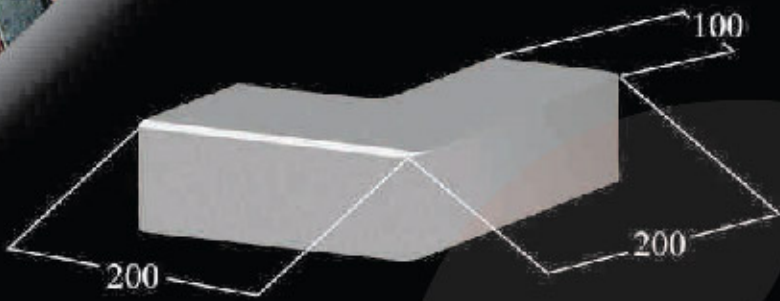


10





3D-V-SHAPE Pavers

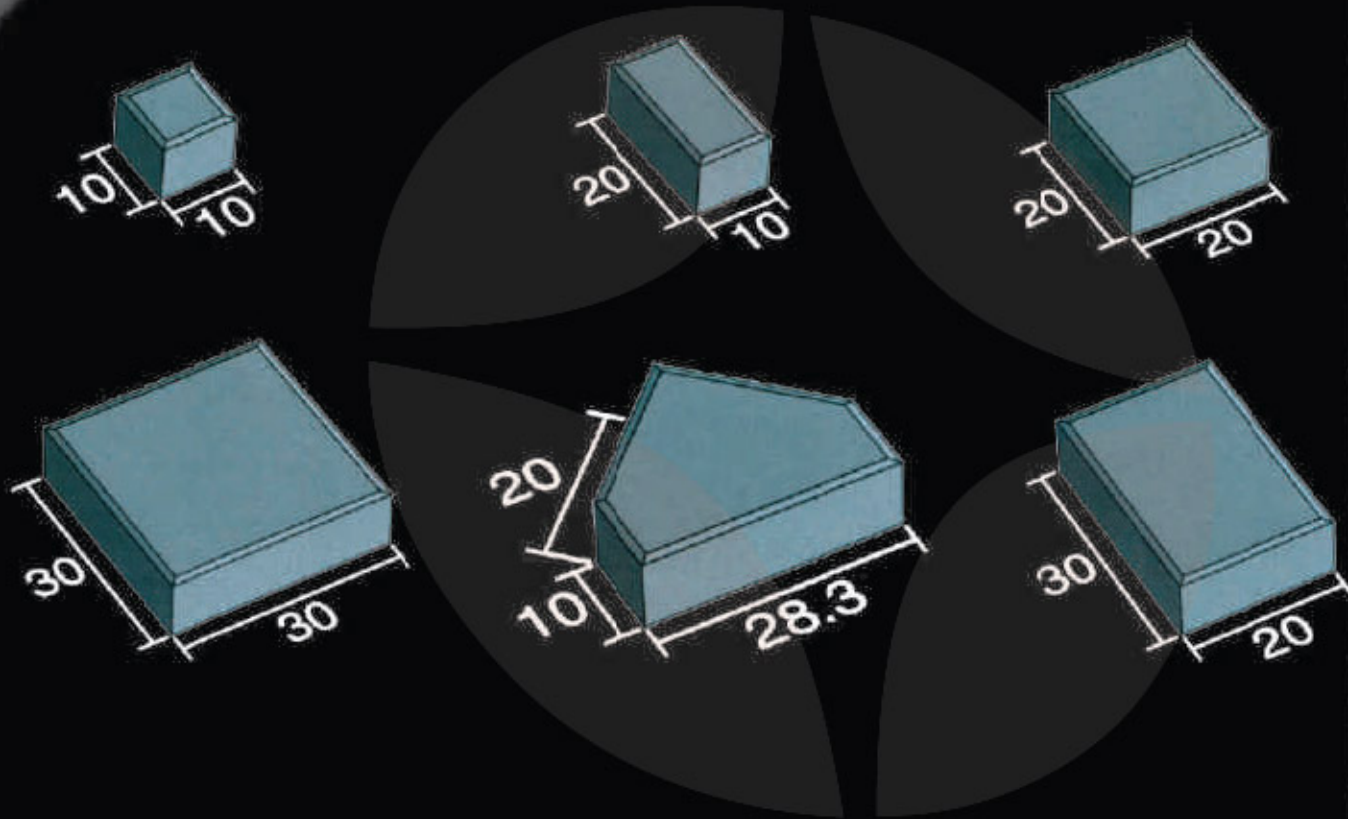


Block Description	Weight Per pcs (kg)	Pieces/M ²	M ² /Per Bundle	Bundle per Trailer	M ² /Per Trailer
60mm 3D V-SHAPE	3.4	40	9	30	270





La Plaza Pavers



TECHNICAL DATA

Stones(cm)	10x10	10x20	20x20		20x30	30x30	Edgestone	
Thickness of Stone (cm)	6	6	6	8	6	6	6	8
Area per Stone (cm) ²	100	200	400	400	600	900	483	483
Stones/m ²	100	50	25	25	16.7	11.1	20.7	20.7
Weight/Stone (kg)	1.41	2.82	5.64	6.65	8.44	12.7	6.81	8.65
M ² / Per Bundle	13.86	14.40	14.40	12.00	14.40	12.96	12.00	8.00

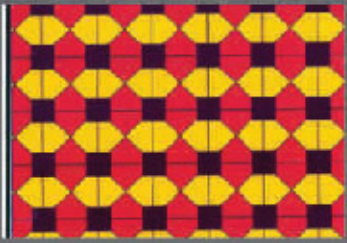




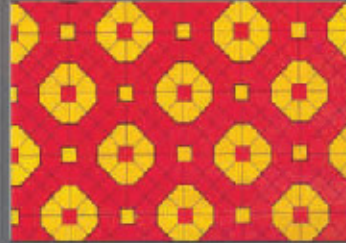
La Plaza Pavers



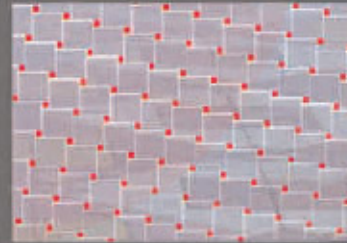
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2



3



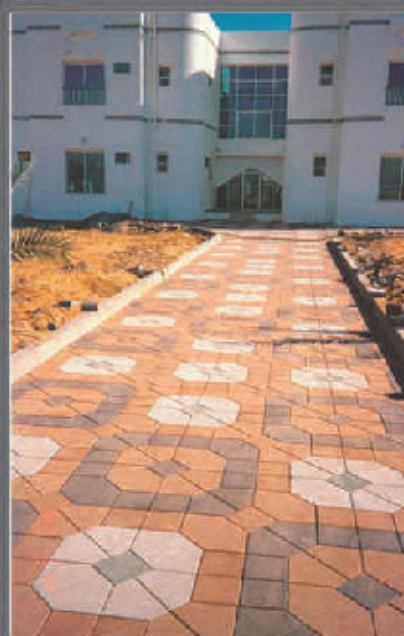
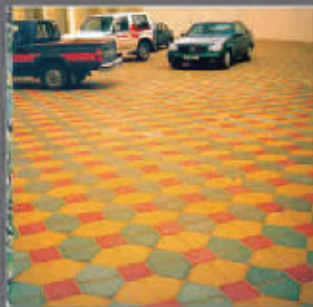
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5

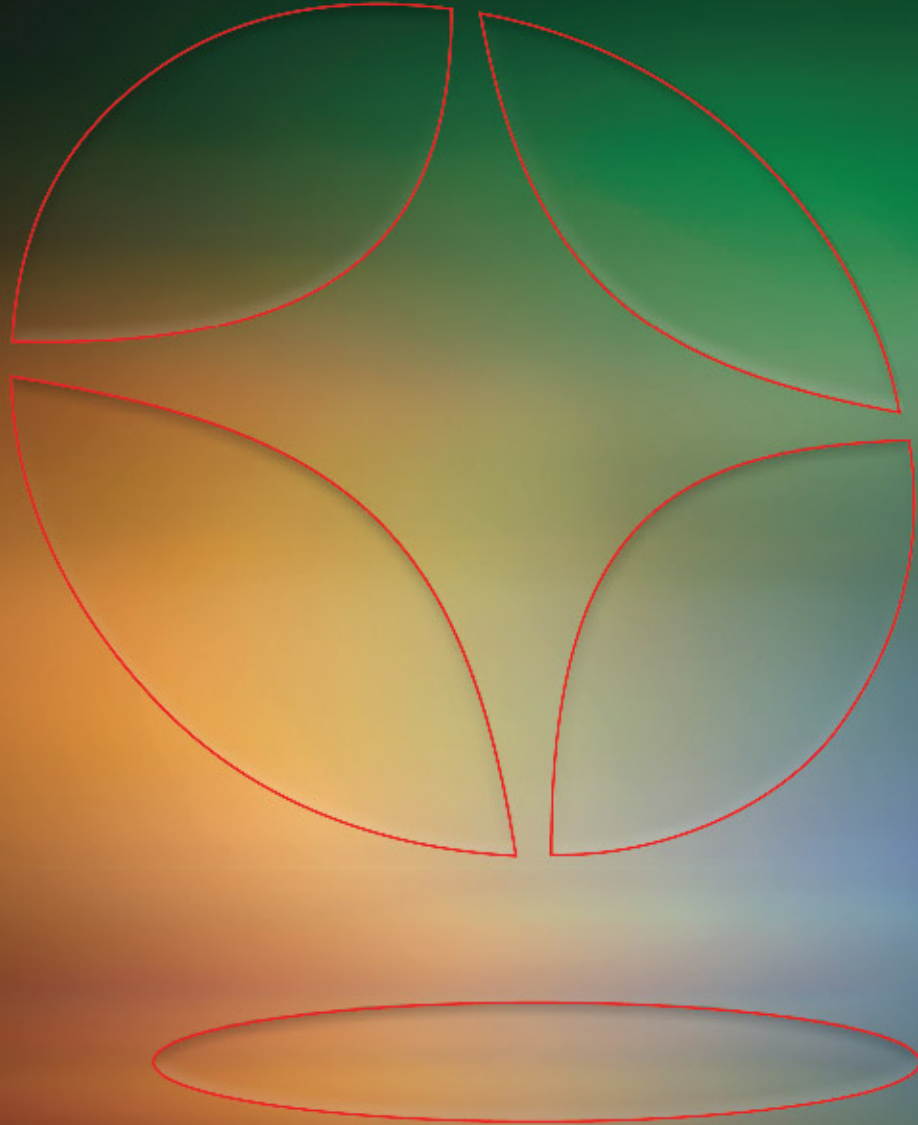


6









الصخر للصناعات الاسمنتية (كيربستون) (Kerbstone) Rock Cement Industries
شركة الشخص الواحد ذ.م.م. Sole Proprietorship L.L.C.



بلوك ماستر للصناعات (Block Master Industries)
شركة الشخص الواحد ذ.م.م. Sole Proprietorship L.L.C.