



# PRE QUALIFICATION

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# 1. Company Profile

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.



شركة قطر للطابوق الأحمر (ش.م.ق.م.)  
QATAR CLAY BRICKS COMPANY (C.Q.S.C.)

We at Qatar Clay Bricks Co. have fortified ourselves with the successful establishment of our newly commissioned state of the art plant at Industrial Area St. 52 Qatar the plant has been designed to produce premium quality of concrete paving stones and concrete blocks in different colors & sizes to meet our client requirements.

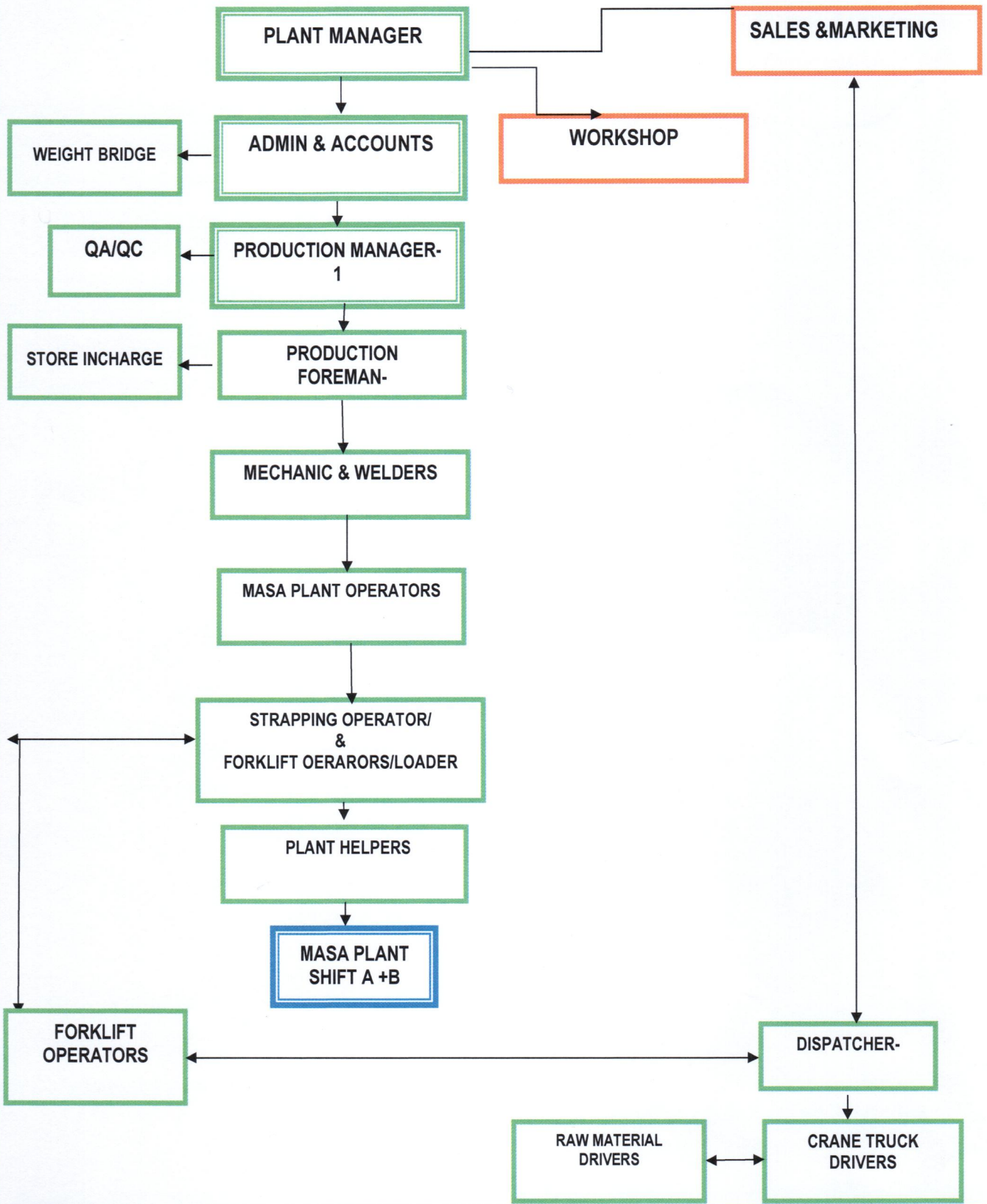
Given the opportunity we are sure to ensure customer's satisfaction with cost effectiveness quality after sales service & technical assistance. We are also involved in fixing of concrete paving blocks through our contract department who deal a wide spectrum of customer ranging from private homeowners to government projects. Qatar Clay Bricks Co aims to be an integral part of the economic growth of Qatar and a leader in the field of concrete products. Furthermore the company vision to pursue and adopt internationally accepted quality standard and continuously improve quality products is the driving force.

## 2. Organizational Chart

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.

**QATAR CLAY BRICK COMPANY**

**PLANT ORGANIZATIONAL CHART  
BLOCK & INTERLOCK -2020**



### 3. CV of key Personnel

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co. ش.م.ع.  
QATAR CLAY BRICKS Co.



# QATAR CLAY BRICK COMPANY

## JOB DESCRIPTION

<b>Job Title: PRODUCTION MANAGER</b>	This JD was last updated on January 2020
<b>Organizational Relationships:</b>  Reports to: <b>PLANT MANAGER &amp; GGM</b>	
<b>Summary :</b>  Responsible for the management and coordination of plant operations including machining, assembly, receiving, stores, tool room and maintenance consistent to improve the facility's performance in shipping, inventory, and throughput.	
<b>Duties &amp; Responsibilities:</b>  I. Plan, organize and direct the manufacturing and maintenance operations which ensure the most effective return on assets. II. Initiative plans and processes which minimize manufacturing costs through effective utilization of manpower, equipment, facilities, materials, and capital.  III. Assures attainment of business objectives, and productions schedules while insuring product standards that will exceed our customers' expectations. IV. Implement manufacturing strategies and action plans to ensure that the facility supports <b>QATAR CLAY BRICK COMPANY</b> strategic initiatives. Establish group and individual accountabilities throughout assigned departments for problem solving and cost reduction, both on a permanent and other basis, depending on need.  V. Encourage use of new techniques and focus on fact based problem solving.  VI. Improve manpower utilization within existing departments and processes. Schedule stability that allows for maximum return on efficiencies.  VII. Manage spending against budget, controlling spending in relation to changes in production volume.  VIII. Assure that collective bargaining agreements are effectively administered and that employee grievances are addressed in a timely fashion. IX. Work to establish management practices throughout assigned areas which included all employees positive with opportunity for construction input and action. X. Continually improve safety record by addressing both physical safety issues and employee safety attitudes. Maintain and improve housekeeping in all areas. XI. Maintain individual skills keeping up to date with latest production and production management concepts.	

**Qualifications:**

4-year degree; business or technical field

Progressive responsibility in a manufacturing environment.  
Ability to multitask and thrive in fast paces- environment.

High energy level required.

Strong leadership skills, independent thinking, strong organizational and planning abilities and excellent analytical and problem solving skills are essentials.

Excellent communication skills (ability to take direction from all levels of management)  
Easily made what is the needed.

**Specialized trainings required (if any):**

Practice and procedures in regards to safety, quality, productivity and cost control in a manufacturing environment.

**Area of experience required:**

High level of Organizing skills

Experience must reflect in team leadership role and the ability to effectively manage the work flow to strict deadlines.

6 plus years of experience in a high production environment.

5 years' experience in hard good manufacturing.

5 years of supervisory/managerial experience.

**Competency requirements: (State the competencies required for this job)**

Must be hands on problem solvers

Attention to detail and follow-up ability

Possess Self-confidence and dynamic personality.

With continuous improvement initiatives.

Accounts/ result oriented person.

# QATAR CLAY BRICK COMPANY

## JOB DESCRIPTION

<b>Job Title: PRODUCTION FOREMAN</b>	This JD was last updated on OCT 2019
<b>Organizational Relationships:</b> Reports to: <b>PRODUCTION MANAGER</b>	
<b>Summary:</b>  Responsible for the management and coordination of plant operations including machining, assembly, receiving, stores, tool room and maintenance consistent to improve the facility's performance in shipping, inventory, and throughput.	
<b>Duties &amp; Responsibilities:</b>  <ul style="list-style-type: none"><li>I. Plan, organize and direct the manufacturing and maintenance operations which ensure the most effective return on assets.</li><li>II. Initiative plans and processes which minimize manufacturing costs through effective utilization of manpower, equipment, facilities, materials, and capital.</li><li>III. Assures attainment of business objectives, and productions schedules while insuring product standards that will exceed our customers' expectations.</li><li>IV. Implement manufacturing strategies and action plans to ensure that the facility supports QATAR CLAY BRICK COMPANY strategic initiatives. Establish group and individual accountabilities throughout assigned departments for problem solving and cost reduction, both on a permanent and other basis, depending on need.</li><li>V. Encourage use of new techniques and focus on fact based problem solving.</li><li>VI. Improve manpower utilization within existing departments and processes. Schedule stability that allows for maximum return on efficiencies.</li><li>VII. Manage spending against budget, controlling spending in relation to changes in production volume.</li><li>VIII. Assure that collective bargaining agreements are effectively administered and that employee grievances are addressed in a timely fashion.</li><li>IX. Work to establish management practices throughout assigned areas which included all employees positive with opportunity for construction input and action.</li><li>X. Continually improve safety record by addressing both physical safety issues and employee safety attitudes. Maintain and improve housekeeping in all areas.</li></ul>	

XI. Maintain individual skills keeping up to date with latest production and production management concepts.

**Qualifications:**

3year degree; or technical field with relevant experience in concrete field

Progressive responsibility in a manufacturing environment.  
Ability to multitask and thrive in fast paces- environment.

High energy level required.

Strong leadership skills, independent thinking, strong organizational and planning abilities and excellent analytical and problem solving skills are essentials.

Excellent communication skills (ability to take direction from all levels of management)  
Easily made what is the needed.

**Specialized trainings required (if any):**

Practice and procedures in regards to safety, quality, productivity and cost control in a manufacturing environment.

**Area of experience required:**

High level of Organizing skills

Experience must reflect in team leadership role and the ability to effectively manage the work flow to strict deadlines.

4 plus years of experience in a high production environment.

3 years' experience in hard good manufacturing.

3 years of supervisory/managerial experience.

**Competency requirements: (State the competencies required for this job)**

Must be hands on problem solvers

Attention to detail and follow-up ability

Possess Self-confidence and dynamic personality.

With continuous improvement initiatives.

Accounts/ result oriented person.

# QATAR CLAY BRICK COMPANY

## JOB DESCRIPTION

F/018/Rev 0/ Dated 1<sup>st</sup> Jan 2020

<b>Job Title:</b> <b>QC Technician</b>	This JD was last updated on January 2020
<b>Organizational Relationships:</b>  Reports to: <b>PRODUCTION MANAGER, EXTERNAL LABORATORY TECHNICIAN</b>	
<b>SUMMARY</b>  Make sure the production team is following QC procedures and Implement all the QC requirements to get the good quality material for production	
<b>Duties and Responsibilities</b> <ul style="list-style-type: none"><li>- Testing of Raw material &amp; finished concrete Product</li><li>- Quality Control,</li><li>- Quality Maintenance, Quality improvement process</li></ul>	
<b>Qualifications:</b> <ul style="list-style-type: none"><li>- Diploma in Civil Engineering</li><li>- Degree in Arts</li></ul> <b>Specialized trainings required (if any):</b> <ul style="list-style-type: none"><li>- Able to check and verify the material quality</li><li>- Maintain the accuracy QCS Limits in the Material &amp; Products</li></ul> <b>Area of experience required:</b> <ul style="list-style-type: none"><li>- Check and verify the non-conformity of product.</li><li>- Material Competency</li><li>- Workman ship as per QC procedure</li><li>- Utilization of good quality material</li></ul>	
<b>Competency requirements: (State the competencies required for this job)</b> <ul style="list-style-type: none"><li>- Problem solving ability</li><li>- Sustainability of Material and Product Quality</li></ul>	

**KEY PERSONNEL:**

For plant production and customer satisfaction, we have allocated the following personnel for QCBC: BLOCK & INTERLOCK.

**BLOCK & INTERLOCK PRODUCTION:**

1. **Mr. EL. SAYED A.M. SAYEDEIN** - Plant manager.  
Mobile No: 55537023  
Office: 4460 3124 /3487 /3157
  
2. **Mr. V. JAYAKUMAR** - Production manager.  
Mobile No: 31022582  
Office No: 4460 3124 /3487 / 3157

**LABORATORY CONTACT**

1. **Mr. DARWIN GUITERREZ** - Internal QA/QC  
Office No: 4460 3124 /3487 /3157

**BLOCK & INTERLOCK LOGISTICS:**

1. **Mr. BIMAL PARAJULI THAPA** - Asst., Logistics Officer.  
Mobile no: 55128619

**BLOCK & INTERLOCK:**

1. **Mr. NASSER AR** - Sales Executive  
Mobile no: 55527606
  
2. **Mr. MOHAMED EISHERBINI RAMADAN** - Sales Executive  
Mobile no: 55530161



شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.

**3. Mr. HANI FAROK**  
Mobile no: 55875052

- Sales Executive

**4. Mr. KAMIL RUBAIEE**  
Mobile no: 55802394

- Sales Executive

Qatar clay brick company is always committed to our customer's satisfaction. The above professional personnel are ready to takes your needs at any time.

## 4. Government License/Certificate

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.



## 4.1 Commercial Registration

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.



وزارة التجارة والصناعة  
Ministry of Commerce and Industry



Registration and Commercial  
Licenses Department

إدارة التسجيل  
والتراخيص التجارية

مستخرج بعض بيانات السجل التجاري

تاريخ الطباعة: 2023/02/06



رقم التسجيل التجاري: 17308  
الاسم التجاري: شركة قطر للطابوق الاحمر  
تاريخ انشاء السجل: 09/02/1995  
الشكل القانوني: شركة مساهمة عامة  
حالة السجل: نشط  
عدد الفروع: 0

رقم التسجيل الضريبي: 5000792432  
السمة التجارية:  
تاريخ انتهاء السجل: 07/02/2026  
راس المال: 50000000  
جنسية المنشأة: قطر

معلومات الاتصال

أرقام الاتصال: +974  
صندوق البريد:

الشركاء

الحالة	النسبة	الجنسية	رقم السجل	رقم الإثبات	الاسم
نشط	0.3	قطر		27963403112	محمد احمد فالح ناصر ال ثاني
نشط	0.52	قطر		28763401256	يوسف ناصر عبدالرحمن درويش فخرو
نشط	8.11	قطر	15351		مجموعه شركات عبدالله عبدالغني ناصر واولاده للتجاره والمقاولات
نشط	0.52	قطر		29063403139	فاطمه ناصر عبدالرحمن درويش فخرو
نشط	0.3	قطر		28163402450	علي احمد فالح ناصر ال ثاني
محجوز	0.3	قطر		27563402106	حمد احمد فالح ناصر ال ثاني
نشط	5.41	قطر		25563400450	خليفه جاسم ثاني ال ثاني
نشط	2.7	قطر		23463400159	جاسم محمد جبر المسلم

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رقم السجل : 17308



غرفة قطر  
QATAR CHAMBER

تشهد غرفة تجارة و صناعة قطر بان المنشأة المذكورة اعلاه سجلت لدينا

Qatar Chamber certifies that the above mentioned establishment has been registered



وزارة التجارة والصناعة  
Ministry of Commerce and Industry



Registration and Commercial  
Licenses Department

إدارة التسجيل  
والتراخيص التجارية

مستخرج بعض بيانات السجل التجاري

نشط	8.92	قطر	13069		مجموعة الفردان
نشط	2.7	قطر	12167		شركة المختار للمقاولات والتجارة ذ.م.م
نشط	0.3	قطر		28763403206	شيخه احمد فالح ناصر ال ثاني
نشط	1.08	قطر		27063400168	عبدالله حمد جاسم ثاني ال ثاني
نشط	1.47	قطر		25063400421	ناصر عبدالرحمن درويش فخرو
نشط	0.52	قطر		27963402995	دانه ناصر عبدالرحمن درويش فخرو
نشط	0.68	قطر		24863400039	يوسف حسين على عبدالله كمال
نشط	2.43	قطر		25863400447	حسن جاسم ثاني جاسم ال ثاني
نشط	0.52	قطر		28463401214	محمد ناصر عبدالرحمن درويش فخرو
نشط	0.3	قطر		29063404680	عبدالرحمن احمد فالح ناصر ال ثاني
نشط	7.456	قطر		26863402172	نور على جبر محمد ال ثاني
نشط	0.517	قطر		28163402361	عبدالرحمن ناصر عبدالرحمن درويش فخرو
نشط	46.35	قطر	12991		الشركه القطريه للصناعات التحويلي
نشط	1.08	قطر		26963401983	خالد حمد جاسم ثاني ال ثاني
نشط	0.64	قطر		24663400693	الجوهريه على جبر محمد ال ثاني
نشط	0.3	قطر		28463403660	فالح احمد فالح ناصر ال ثاني
نشط	1.08	قطر		25563400093	عبدالله على عبدالرحمن العبدالله
نشط	0.3	قطر		27763402140	عبدالعزيز احمد فالح ناصر ال ثاني
محجوز	3.24	قطر		23563400188	ورثة محمد حمد عبدالله المانع
نشط	1.35	قطر		27363401043	محمد حمد جاسم ثاني ال ثاني
نشط	0.3	قطر		29263404387	خالد احمد فالح ناصر ال ثاني
محجوز	0.3	قطر		27663402021	ناصر احمد فالح ناصر ال ثاني

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رقم السجل : 17308



تشهد غرفة تجارة و صناعة قطر بان المنشأة المذكورة اعلاه سجلت لدينا

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وزارة التجارة والصناعة  
Ministry of Commerce and Industry



Registration and Commercial  
Licenses Department

إدارة التسجيل  
والتراخيص التجارية

مستخرج بعض بيانات السجل التجاري

المدراء (المخولون بالتوقيع)

الصفة (الصلاحية)	الجنسية	رقم السجل	رقم الإثبات	الأسم
- عضو مجلس الإدارة	قطر		28463403660	فالح احمد فالح ناصر ال ثاني
- عضو مجلس الإدارة	قطر		27363401043	محمد حمد جاسم ثاني ال ثاني
صلاحيات كاملة ومطلقة - عضو مجلس الإدارة	قطر		26363400168	فهد حسين ابراهيم الفردان
صلاحيات كاملة ومطلقة - نائب رئيس مجلس الإدارة	قطر		25063400421	ناصر عبدالرحمن درويش فخر
صلاحيات كاملة ومطلقة - الرئيس التنفيذي	قطر		26063400592	عبدالرحمن عبدالله ابراهيم الانصاري
صلاحيات كاملة ومطلقة - رئيس مجلس الإدارة	قطر		25563400450	الشيخ خليفه جاسم ثاني ال ثاني
صلاحيات كاملة ومطلقة - العضو المنتدب	قطر		25563400093	عبدالله علي عبدالرحمن العبدالله

أعضاء مجلس الادارة

الصفة (الصلاحية)	الجنسية	رقم الإثبات	الأسم
عضو مجلس الإدارة	قطر	28463403660	فالح احمد فالح ناصر ال ثاني
العضو المنتدبصلاحيات كاملة ومطلقة	قطر	25563400093	عبدالله علي عبدالرحمن العبدالله
نائب رئيس مجلس الإدارةصلاحيات كاملة ومطلقة	قطر	25063400421	ناصر عبدالرحمن درويش فخر
عضو مجلس الإدارةصلاحيات كاملة ومطلقة	قطر	26363400168	فهد حسين ابراهيم الفردان
عضو مجلس الإدارة	قطر	26663400132	سلمان عبدالله عبدالغني ناصر ال عبدالغني

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رقم السجل : 17308



تشهد غرفة تجارة و صناعة قطر بان المنشأة المذكورة اعلاه سجلت لدينا

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وزارة التجارة والصناعة  
Ministry of Commerce and Industry



Registration and Commercial  
Licenses Department

إدارة التسجيل  
والتراخيص التجارية

مستخرج بعض بيانات السجل التجاري

رئيس مجلس الإدارة/صلاحيات كاملة ومطلقة	قطر	25563400450	الشيخ خليفه جاسم ثاني ال ثاني
عضو مجلس الإدارة	قطر	27363401043	محمد حمد جاسم ثاني ال ثاني

الأنشطة التجارية

إسم النشاط	الرقم
صناعة المنتجات الخزفية الحرارية	269200
التجارة فى الطابوق (الطوب)	538400

إسم النشاط	الرقم
صناعة الطوب (الطابوق)الطيني (الطوب الاحمر)	269310
صناعة الطوب(الطابوق) الداخلى فى مكوناته الخزف	269220
انتاج (الطابوق الاسمنتي - الاترلوك الاسمنتي للارضيات - منتجات اسمنتية مسبقة الصنع )	2005706

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تشهد غرفة تجارة و صناعة قطر بان المنشأة المذكورة اعلاه سجلت لدينا

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## 4.2 Trade Licenses

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.



Department of Industry  
Development

وزارة التجارة والصناعة  
Ministry of Commerce and Industry

إدارة التنمية الصناعية

شهادة قيد في السجل الصناعي

رقم الشهادة	الكيان القانوني	تاريخ إصدار السجل الصناعي	تاريخ إنتهاء السجل الصناعي	تاريخ بدء الإنتاج
314	شركة مساهمة عامة	16/03/1998	07/10/2023	31/10/1997
إسم المشروع الصناعي	شركة قطر للطابوق الأحمر			
الموقع	الدوحة - المنطقة الصناعية			
17308	رقم السجل التجاري	مرهون لصالح : بنك قطر للتنمية		

ص.ب.	هاتف	فاكس	موبايل	الإيميل	الشارع	المنطقة	العقار
1569	44603124	44603481	55537023		52	57	125

أصحاب المشروع

النسبة	الجنسية	إسم المالك
100	قطر	الشركة القطرية للصناعات التحويلية س.ت:12991

الأنشطة الصناعية

النشاط الصناعي	وصف النشاط
239510	صناعة البلك الأسمنتي المفرغ والأجر

المنتجات

الرمز المنسق	المنتجات	الوحدة	الطاقة التصميمية	الطاقة الإنتاجية
68101100	طابوق اسمنتي	عدد	20,150,000	2,500,000
68101929	بلاط اترلوك	م2	300,000	410,000
68101990	عناصر غير انشائية مسبقة الصنع	م2	80,000	

حجم القوي العاملة	قيمة المواد الخام	عدد الآلات والمعدات	قيمة الآلات والمعدات	رأس المال المستمر	رأس المال المدفوع
85	24,750,000	5032	23,000,000	50,000,000	50,000,000

يجب على صاحب المشروع الصناعي تقديم طلب إلى الإدارة لتعديل البيانات المبينة في المادتين (18) و (19) من اللائحة التنفيذية وأي بيانات أخرى للمشروع الصناعي وذلك خلال ستين يوماً على الأكثر من تاريخ حدوث أي تغيير في هذه البيانات طبقاً للقانون رقم (20) لسنة 2006م بإصدار قانون (نظام) التنظيم الصناعي الموحد لدول مجلس التعاون لدول الخليج العربية

مدير إدارة التنمية الصناعية



ملاحظة : على المشروع الصناعي المقيد بالسجل الالتزام بالإرشادات المذكورة خلف هذة الشهادة

تاريخ الطابعة 03/11/2021





## 4.3 Computer Card

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.








بطاقة قيد المنشأة Establishment Card	
Est. ID	03-0055-00 رقم قيد المنشأة
اسم المنشأة : شركة قطر للطابوق الاحمر	
Est. Name : QATAR CLAY BRICKS CO	
Sector : INDUSTRIAL	القطاع : صناعي
First Issue : 2004-02-29	تاريخ اول اصدار :
Expiry Date : 2025-02-27	تاريخ الصلاحية :
مدير عام الادارة العامة للجوازات	
	* 0 3 0 0 5 5 0 0 *

2023/02/26 28/072

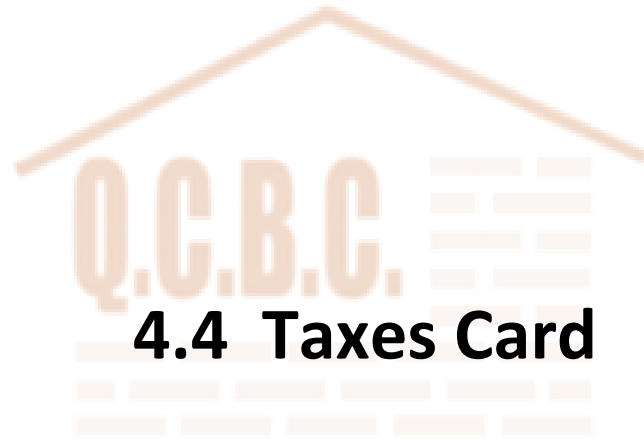


بطاقة قيد المنشأة Establishment Card	
Est. ID	03-0055-00 رقم قيد المنشأة
اسم المنشأة : شركة قطر للطابوق الاحمر	
Est. Name : QATAR CLAY BRICKS CO	
Sector : INDUSTRIAL	القطاع : صناعي
First Issue : 2004-02-29	تاريخ اول اصدار :
Expiry Date : 2025-02-27	تاريخ الصلاحية :
مدير عام الادارة العامة للجوازات	
	* 0 3 0 0 5 5 0 0 *

2023/02/26 28/072

Authorizers		المفوضين
التوقيع	الاسم	رقم الوثيقة
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	الشيخ محمد حمد جاسم ثاني ال ثاني MOHAMED HAMAD AL-THANI	27363401043
Cards 2 / 2 عدد البطاقات		تعليمات
Instruction		• على من يجد هذه البطاقة ان يقوم بتسليمها الى اي مركز للشرطة
		• Whoever finds this card should deliver it to any police station.

Authorizers		المفوضين
التوقيع	الاسم	رقم الوثيقة
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	عبدالرحمن عبدالله ابراهيم الانصاري ABDULRAHMAN AL-ANSARI	26063400592
	الشيخ فلاح احمد فلاح ناصر ال ثاني FALIH AHMED F AL-THANI	28463403660
	الشيخ خليفة جاسم ثاني ال ثاني KHALIFA AL-THANI	25563400450
	ناصر عبدالرحمن درويش فخرو NASSER A.RAHMAN FAKHRO	25063400421
Cards 1 / 2 عدد البطاقات		تعليمات
Instruction		• على من يجد هذه البطاقة ان يقوم بتسليمها الى اي مركز للشرطة
		• Whoever finds this card should deliver it to any police station.



## 4.4 Taxes Card

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.



28/09/2020

ضريبة  
Dhareeba  
tax portal



## TAX CARD - بطاقة ضريبية

The General Tax Authority of Qatar certifies that the entity is registered as per the following details:

شهد الهيئة العامة للضرائب في دولة قطر أن جهة أدناه مسجلة حسب البيانات التالية:

TIN Number

5000792432

نم التعريف الضريبي

Taxpayer Name:

شركة قطر للطابوق الاحمر

بم المكلف:

Qatar Co. for Red Brick

Commercial  
Registration Number

17308

م السجل التجاري القطري

Address

Zone: 57 منطقة: Building: المبنى:

عنوان

[Headquarter]:

Street: 52 شارع:

مركز الرئيسي:

Qatar - قطر

Main Activity:

انتاج (الطابوق الاسمنتي - الانترلوك الاسمنتي للارضيات -

نشاط الرئيسي:

2005706-Production of (concrete blocks,  
interlock concrete flooring and prefabri

Legal Form:

شركة مساهمة عامة

شكل القانوني:

Public Shareholding Company

Activity Commencement  
Date:

09/02/1995

يخ بدئ النشاط:

Number of Branches:

0

د الفروع:

Registered taxes :

ضرائب المسجلة :

Income Tax

REGISTERED - 09/02/1995 - مسجل

ضريبة على الدخل

الهيئة العامة للضرائب  
GENERAL TAX AUTHORITY



هذه الوثيقة مستخرجة من النظام الآلي و ليس من الضروري التوقيع عليها

This is a system generated document and does not require to be signed.

## 4.5 Chamber of Commerce Certificate

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.



وزارة التجارة والصناعة  
Ministry of Commerce and Industry



Industrial Development  
Department

إدارة التنمية الصناعية

شهادة قيد في السجل الصناعي

رقم الشهادة	الكيان القانوني للمشروع	تاريخ الاصدار	تاريخ الانتهاء
239510/314	مساهمة عامة	2019/10/9	2021/10/8

اسم المشروع الصناعي ( المنشأة ): شركة قطر للطابوق الأحمر

اسم صاحب / أصحاب المشروع الصناعي: الشركة القطرية للصناعات التحويلية وشركائها س.ت: 12991 (قطر) 100%  
سجل تجاري رقم (17308) صادر بتاريخ 2019/10/7

عنوان إدارة المشروع

ص. ب: 1569 الهاتف: 44603124 الفاكس: 44603481 موبيل: 55537023

موقع المصنع: المنطقة الصناعية - الدوحة العنوان: شارع (52)، عقار رقم (125)

البريد الإلكتروني: E-mail: info@qcbc.com.qa

المنتجات الصناعية الرئيسية	رمز النظام المنسق	الوحدة	الطاقة الإنتاجية السنوية التصميمية	الطاقة الإنتاجية السنوية الفعلية
طابوق أسمتي مختلف المقاسات	68101100	عدد	20,000,000	3,145,155
إنترلوك أسمتي	68101921	م2	300,000	410,000

تاريخ بدء الإنتاج: 1997/10/31 قيمة مواد الخام الأولية: 18,030,756 حجم القوى العاملة: 85

عدد الآلات والمعدات: 3 قيمة الآلات والمعدات: 72,737,545 رأس المال المستثمر: 75,004,931

رأس المال المدفوع: 50,000,000 القروض: 23,725,830 الجهة المقرضة: بنك قطر للتنمية - بنك الدوحة

\* يجب على صاحب المشروع الصناعي تقديم طلب إلى الإدارة لتعديل البيانات الميينة في المادتين (18) و (19) من اللائحة

التفصيلية و أي بيانات أخرى للمشروع الصناعي وذلك خلال ستين يوماً على الأكثر من تاريخ حدوث أي تغيير في هذه البيانات

طبقاً للقانون رقم (20) لسنة 2006م بإصدار قانون (نظام) التنظيم الصناعي الموحد لدول مجلس التعاون لدول الخليج

العربية.



مدير إدارة التنمية الصناعية

ملاحظة: على المشروع الصناعي المقيد بالسجل الالتزام بالإرشادات المذكورة خلف هذه الشهادة

## 5. Statutory Approval by Local Authorities

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.

تاريخ الطباعة : 2020-02-26  
وقت الطباعة : ص 9:56  
رقم الطلب : TLC19012444



وزارة الداخلية  
الإدارة العامة للدفاع المدني  
إدارة الوقاية

## شهادة

نوع الشهادة : استيفاء نظام الوقاية ومكافحة الحريق (تجاري)

### بيانات المنشأة

اسم المنشأة : شركة قطر للطابوق الاحمر  
رقم قيد المنشأة : 03-0055-00  
المساحة : 63083  
السجل التجاري : 17308

### بيانات صاحب الشهادة

الاسم : السيد عبدالرحمن محمد محمد سيدين  
الرقم الشخصي : 25381801330  
الهاتف الجوال : 55827004

### عنوان المنشأة

رقم المنطقة : 57  
اسم الشارع : شارع 52  
رقم قطعة الأرض : 0  
تصنيف المنشأة : [أخرى]  
رقم الشارع : 52  
رقم المبنى : 125  
رقم الوحدة / الشقة : 0

### تفاصيل الشهادة

1. يجب تنفيذ جميع أحكام قانون الدفاع المدني رقم (25) لسنة 2015 والالتزام التام به
2. يجب الحصول على موافقات الجهات المختصة للنشاط المراد مزاولته

تاريخ إنهاء الشهادة : 24/02/2022

تاريخ إصدار الشهادة : 26/02/2020

الإدارة العامة للدفاع المدني

إدارة الوقاية

(1)

مدير إدارة الوقاية

الإدارة العامة للدفاع المدني

1/4



10-5-2018



2018/123053

Ministry of Municipality and Environment  
Industrial Inspection & Pollution Control Dept.



وزارة البلدية والبيئة  
إدارة التفتيش الصناعي ومكافحة التلوث

رقم التصريح OL-15/117

تصريح تشغيل

الرقم المميز EP-13/708

اسم المنشأة/المشروع شركة قطر للطابوق الأحمر

اسم صاحب/اصحاب التصريح المادة الشركة القطرية للصناعات التحويلية وشركائها

الموقع -العنوان المنطقة الصناعية شارع 52

نوع الترخيص الإداري وزارة الطاقة والصناعة

تاريخ الإصدار 09/05/2018

تاريخ الإنتهاء 08/05/2021

رمز النشاط	اسم النشاط	المنتج
26961	قطع وتشكيل وتجهيز الأحجار للاستخدام في البناء والتشييد والطرق الخ...	توسعة باضافة خط انتاج جديد لانتاج طابوق اسمنتي -انترلوك اسمنتي للارضيات -منتجات اسمنتية مسبقة الصنع



علي عبدالله المري

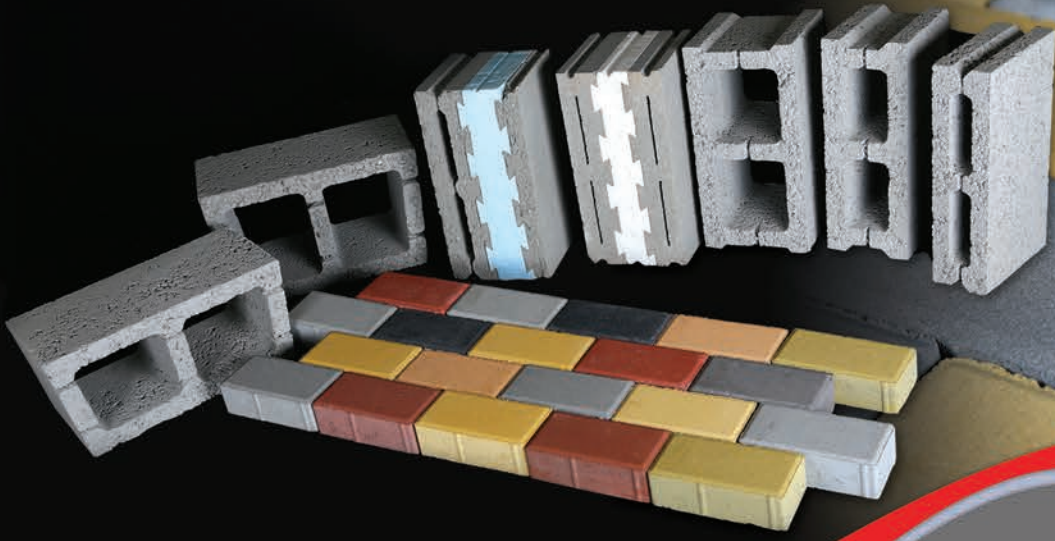
مدير إدارة التفتيش الصناعي ومكافحة التلوث





## 6. General Catalogue

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.



شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS CO.

إحدى شركات الصناعات التحويلية  
Subsidiary of QIMC

- Concrete Blocks for Walls
- Thermal Blocks For Walls
- Hordi For Ceiling
- Interlock Pavers

- طابوق اسمنتي للجدران
- طابوق عازل للجدران
- هوردي للأسقف
- إنترلوك للأرضيات



شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS CO.



**We** at QATAR CLAY BRICKS Co. have fortified ourselves with the successful establishment of our newly commissioned state-of-the art plant at Industrial Area, Qatar. The plant has been designed to produce premium quality paving stones in different colours and sizes to meet our client requirements. Given the opportunity, we are sure to ensure customer satisfaction with cost effectiveness, quality, after sales service and technical assistance.





## RAW MATERIALS

### GABBRO AGGREGATES

Aggregates used are crushed gabbro aggregates complying with BS 882:1983, free from earth clay, loam and soft clay. Sampling and testing shall be in accordance with BS 812:1975. The amount of material passing as BS 75 micron sieve in the combined aggregates, when tested in accordance with BS 812 (wet sieving method), shall not exceed the following limits:

- 1) Fine aggregates: 3 per cent by weight.
- 2) Coarse aggregates: 1 per cent by weight.

**We do not use limestone in our products.**

### WASHED SAND

The sand used for concrete shall be capable of passing through a 5mm Bs test sieve and it shall be so graded that when mixed with coarse aggregates and cement, it shall produce concrete of the maximum density. The fine aggregates shall not contain more than 25 per cent by weight of soluble calcium carbonate in either the fraction passing a 600 micron BS sieve.

We are producing the quality products with 100 per cent washed sand and gabbro aggregates. The sand is processed at QCBC sister plant, QATAR SAND TREATMENT PLANT.

### CEMENT

The cement used for manufacture of concrete paving blocks shall unless stated otherwise, be ordinary portland cement (Typell). If sulphate-resisting cement should be used, it shall comply with BS 4027 standards for QATAR CLAY BRICKS CO. The cement content in the blocks shall not be less than 400Kg/cu.m concrete.





## RAW MATERIALS

### PIGMENT

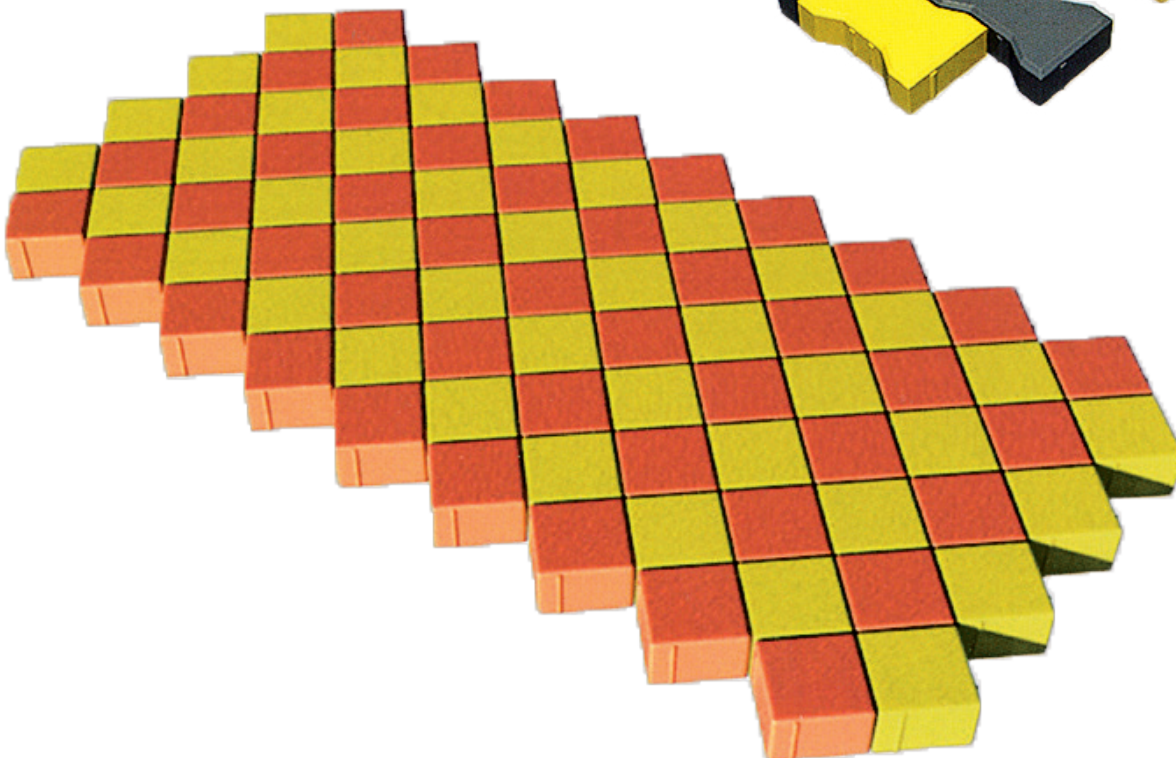
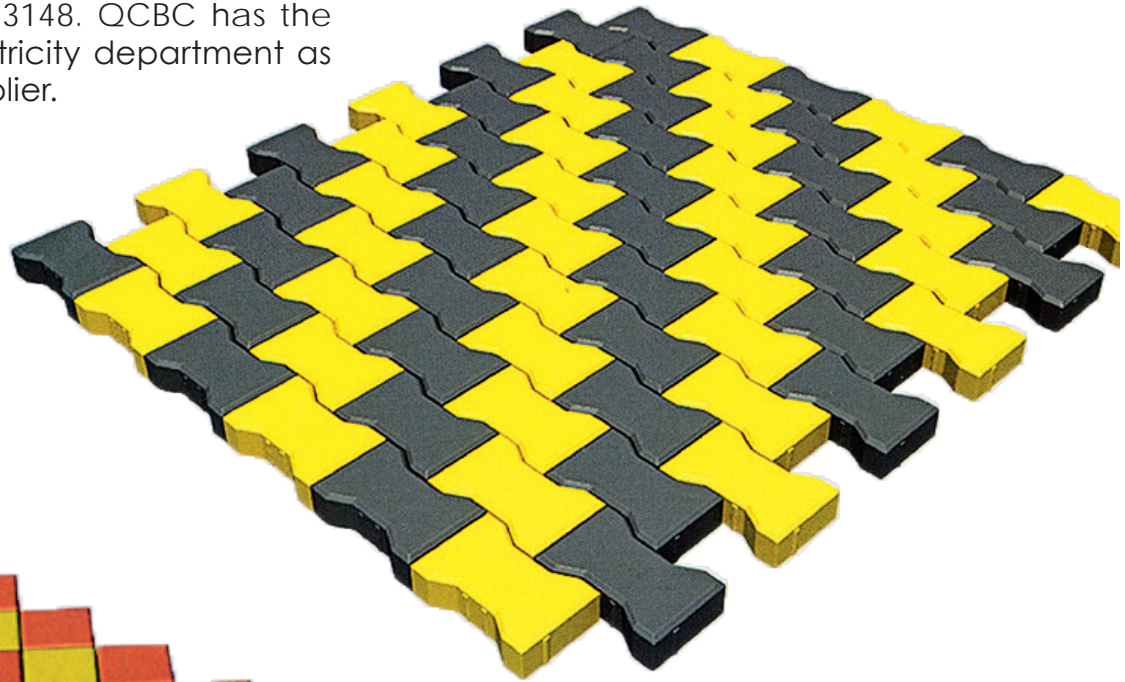
Coloured concrete paving blocks shall contain a minimum of 5 per cent inorganic by weight of the cement content and according to manufactures instructions. All pigments will comply with BS 1014 standards and have been tested for alkali resistance and light resistance according to ASTM C979

### WATER

Water used for mixing concrete will be potable and free from all sediments and dissolved or suspended matter, which may undermine the quality of concrete as specified under BS 3148. QCBC has the Qatar water and electricity department as its official water supplier.

### ADMIXTURES

Admixtures shall be used in the concrete only with the full approval of the engineer. All admixtures shall comply with BS 5075, if specified.







## ADVANTAGES

### INCREASED STRENGTH AND LIFE

Centimeter for centimeter (Inch for inch), concrete paving blocks are stronger (49 N/mm<sup>2</sup> minimum) and more durable than conventional paving materials. Concrete paving blocks can handle the weight of heavy construction equipment of fully loaded tractor-trailers. So you have a product with an exceptionally long life.

### LESS ABSORBENT

Concrete paving blocks have less than 5 per cent absorption, which is considerably lower than both asphalt and poured concrete. This provides for substantial resistance to oil and salt, the most common destructive agents to the life and appearance of paving surfaces.

### MORE ATTRACTIVE

Because concrete paving blocks are available in a variety of shapes and colours, an endless number of beautiful patterns and designs can be created which simply cannot be done with asphalt or poured concrete.



## ADVANTAGES

### EASIER TO INSTALL

The installation of concrete paving blocks requires neither the specialised equipment nor the intensive skilled labour as asphalt and poured concrete installations. Interlocking tiles are easy to lay and can be semi-skilled labour. These tiles can also be easily removed and reinstalled later at the same place or elsewhere..

### LESS MAINTENANCE

Concrete paving blocks requires for less maintenance than other paving materials. The strength and durability of concrete paving blocks eliminate costly patching and surfacing. Colour concrete paving blocks make it possible to create mosaics for parking space lines and directional sign, thereby eliminate painting.

### EASY REUSABLE

Unlike asphalt and poured concrete, concrete paving blocks can be removed for access to underground utilities and reinstalled after repairs are completed.

### COOLER IN SUMMER

Concrete paving block remains cooler than asphalt and poured concrete in summer making it the ideal choice of parks, patios, swimming pools perimeters and pedestrian areas.



## ADVANTAGES

### ALL WEATHER INSTALLATION

Concrete paving blocks can be installed any time of the year, in practically any type of climate. Unlike asphalt and concrete, concrete paving blocks do not require favourable weather and temperature for successful installation. This helps avoid costly construction delays.

### GOOD AESTHETICS

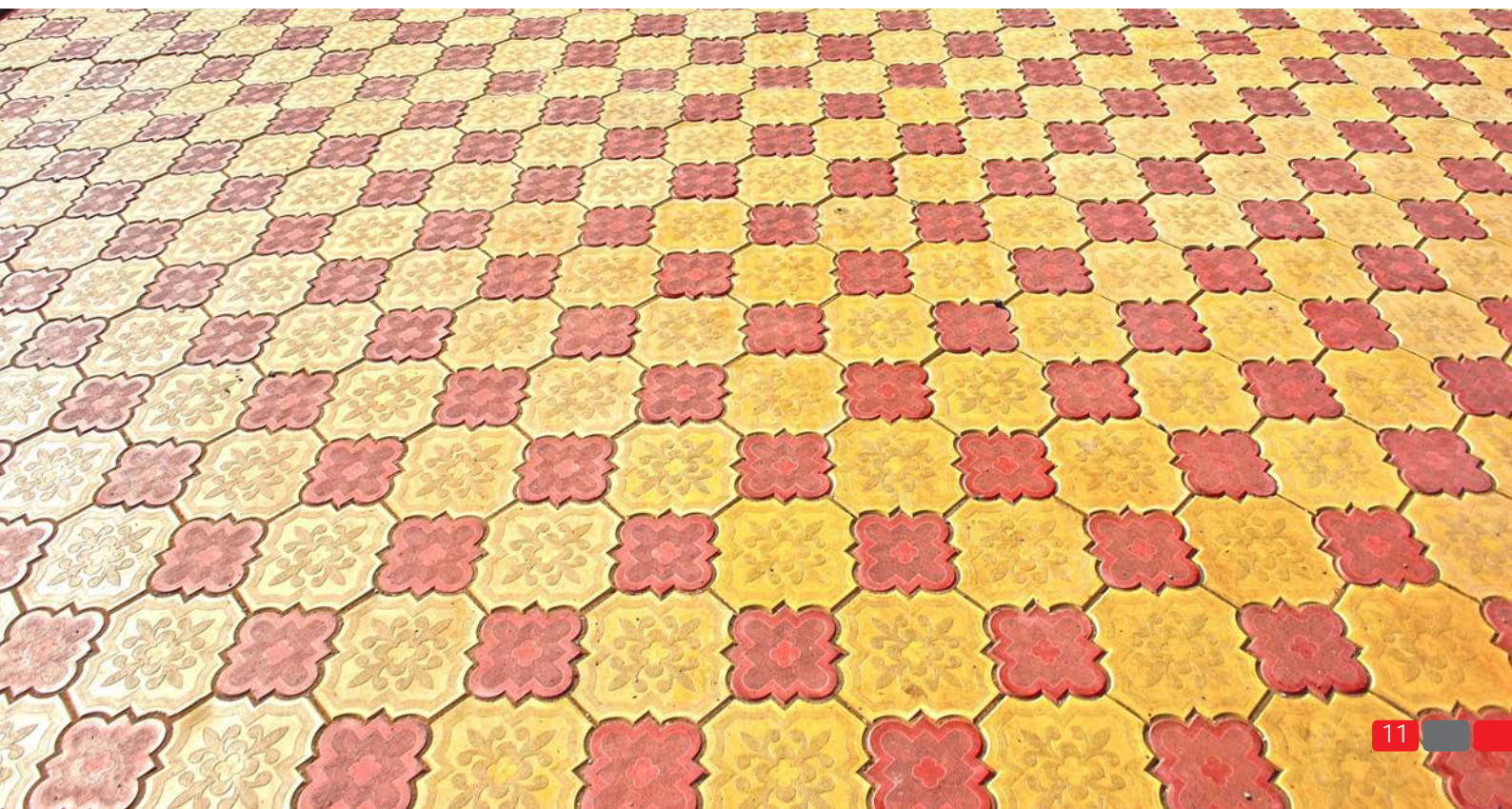
As the blocks come in numerous shapes, sizes colour and textures, the design options are almost endless. This is especially ideal for surfaces of varied widths and where colours are preferred..

### COST EFFICIENT

The interlocking tiles are economical to procure, inexpensive to install and requires little or no maintenance.

### HIGH LOAD BEARING

QCBC interlocking tiles are made of very strong concrete with an average strength in the range between 50 to 70 N/mm<sup>2</sup>. These blocks provide suitable surfacing for pavements where traffic travels at low speeds (60-50Kmph). Further, these blocks do not soften with oil spillage.



**ACES**  
Arab Center المركز العربي  
For Engineering Studies للدراسات الهندسية

**TEST REPORT ON COMPRESSIVE STRENGTH OF INTERLOCK**

Owner	N.P.	Report No.	THR16053760
ACES Client	Qatar Clay Bricks Co. W.L.L	Date Reported	10-08-16
Contractor	Qatar Clay Bricks Co. W.L.L	Sample No.	THS16023405
Consultant	N.P.	Request No.	THQ16015506
Project No.	N.P.	Client Reference	Full payment in advance
Project Name	Private		
Sample Description	Interlock (Uni Sape) S#01	Sampled By	Client's Rep.
Source	Qatar Clay Bricks	Sampling Date	31-07-16
Sample Location	N.P.	Sampling Cert.	N.P.
IR No.	N.P.	Sampling Method	-
Production Date	N.P.	Sample Size	N.P.
Work Size	N.P.	Colour	Gray
Test Method	BS 6717: Part 1: 1993, Annex. A (Dimensions) & B (Compressive strength)	Sample Brt. In By	Client's Rep.
Test Method Var.	-	Date Received	31-07-16
Tested By	Govinda	Date Tested	04-08-16

No.	Average Thickness (mm)	Compressive Strength (N/mm <sup>2</sup> )
1	80	88
2	80	83
3	81	85
4	80	83
5	80	78
6	80	89
7	81	90
8	80	77
9	80	81
10	80	80
11	81	83
12	80	86
13	80	81
14	81	80
15	80	86
16	80	85
Minimum		77
Average		83

Remarks :- The test results related only to the specimen(s) tested.  
- QCS 2010 Requirements (section 6)  
: 40 N/mm<sup>2</sup> (lowest individual block)  
: 49 N/mm<sup>2</sup> (average of 16 paving blocks)

Eng. Ghaleb Al-Zubi  
Head of Materials Department

0003639617

+974 11 870 141 فاكس : +974 11 870 141  
P.O.Box : 19579, Doha, Qatar Tel: +974 44 870 141 Fax: +974 44 870 146  
E-mail: acesdoha@aces-int.com www.aces-int.com

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Arab Center المركز العربي  
For Engineering Studies للدراسات الهندسية

**TEST REPORT ON COMPRESSIVE STRENGTH OF INTERLOCK**

Owner	N.P.	Report No.	THR16053763
ACES Client	Qatar Clay Bricks Co. W.L.L	Date Reported	10-08-16
Contractor	Qatar Clay Bricks Co. W.L.L	Sample No.	THS16023408
Consultant	N.P.	Request No.	THQ16015506
Project No.	N.P.	Client Reference	Full payment in advance
Project Name	Private		
Sample Description	Interlock (Uni Sape) S#02	Sampled By	Client's Rep.
Source	Qatar Clay Bricks	Sampling Date	31-07-16
Sample Location	N.P.	Sampling Cert.	N.P.
IR No.	N.P.	Sampling Method	-
Production Date	N.P.	Sample Size	N.P.
Work Size	N.P.	Colour	Gray
Test Method	BS 6717: Part 1: 1993, Annex. A (Dimensions) & B (Compressive strength)	Sample Brt. In By	Client's Rep.
Test Method Var.	-	Date Received	31-07-16
Tested By	Govinda	Date Tested	04-08-16

No.	Average Thickness (mm)	Compressive Strength (N/mm <sup>2</sup> )
1	80	78
2	80	82
3	81	79
4	80	77
5	80	73
6	81	80
7	80	83
8	80	91
9	80	80
10	81	76
11	80	78
12	80	86
13	80	78
14	81	76
15	80	77
16	80	76
Minimum		73
Average		79

Remarks :- The test results related only to the specimen(s) tested.  
- QCS 2010 Requirements (section 6)  
: 40 N/mm<sup>2</sup> (lowest individual block)  
: 49 N/mm<sup>2</sup> (average of 16 paving blocks)

Eng. Ghaleb Al-Zubi  
Head of Materials Department

0003639634

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E-mail: acesdoha@aces-int.com www.aces-int.com

**ACES**  
Arab Center المركز العربي  
For Engineering Studies للدراسات الهندسية

**TEST REPORT ON COMPRESSIVE STRENGTH OF INTERLOCK**

Owner	N.P.	Report No.	THR16060176
ACES Client	Qatar Clay Bricks Co. W.L.L	Date Reported	03-09-16
Contractor	Qatar Clay Bricks Co. W.L.L	Sample No.	THS16025465
Consultant	N.P.	Request No.	THQ16018907
Project No.	N.P.	Client Reference	Full payment in advance
Project Name	Private		
Sample Description	Interlock S#01	Sampled By	Client's Rep.
Source	Qatar Clay Bricks	Sampling Date	28-08-16
Sample Location	N.P.	Sampling Cert.	N.P.
IR No.	N.P.	Sampling Method	-
Production Date	N.P.	Sample Size	200x100x60 mm
Work Size	200x100x60 mm	Colour	Gray
Test Method	BS 6717: Part 1: 1993, Annex. A (Dimensions) & B (Compressive strength)	Sample Brt. In By	Client's Rep.
Test Method Var.	-	Date Received	28-08-16
Tested By	Govinda	Date Tested	30-08-16

No.	Average Thickness (mm)	Compressive Strength (N/mm <sup>2</sup> )
1	60	66
2	60	72
3	61	75
4	60	73
5	60	68
6	60	63
7	60	66
8	61	70
9	60	67
10	60	72
11	60	66
12	61	68
13	60	67
14	60	67
15	60	66
16	61	70
Minimum		63
Average		69

Remarks :- The test results related only to the specimen(s) tested.  
- QCS 2010 Requirements (section 6)  
: 40 N/mm<sup>2</sup> (lowest individual block)  
: 49 N/mm<sup>2</sup> (average of 16 paving blocks)

Eng. Ghaleb Al-Zubi  
Head of Materials Department

0003668324

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E-mail: acesdoha@aces-int.com www.aces-int.com

**ACES**  
Arab Center المركز العربي  
For Engineering Studies للدراسات الهندسية

**TEST REPORT ON COMPRESSIVE STRENGTH OF INTERLOCK**

Owner	N.P.	Report No.	THR16060180
ACES Client	Qatar Clay Bricks Co. W.L.L	Date Reported	03-09-16
Contractor	Qatar Clay Bricks Co. W.L.L	Sample No.	THS16025466
Consultant	N.P.	Request No.	THQ16018907
Project No.	N.P.	Client Reference	Full payment in advance
Project Name	Private		
Sample Description	Interlock S#02	Sampled By	Client's Rep.
Source	Qatar Clay Bricks	Sampling Date	28-08-16
Sample Location	N.P.	Sampling Cert.	N.P.
IR No.	N.P.	Sampling Method	-
Production Date	N.P.	Sample Size	200x100x80 mm
Work Size	200x100x80 mm	Colour	Gray
Test Method	BS 6717: Part 1: 1993, Annex. A (Dimensions) & B (Compressive strength)	Sample Brt. In By	Client's Rep.
Test Method Var.	-	Date Received	28-08-16
Tested By	Govinda	Date Tested	30-08-16


No.	Average Thickness (mm)	Compressive Strength (N/mm <sup>2</sup> )
1	80	72
2	80	69
3	81	73
4	80	69
5	80	68
6	81	72
7	80	65
8	80	69
9	80	73
10	81	75
11	80	65
12	80	68
13	80	64
14	79	75
15	80	75
16	80	76
Minimum		64
Average		71

Remarks :- The test results related only to the specimen(s) tested.  
- QCS 2010 Requirements (section 6)  
: 40 N/mm<sup>2</sup> (lowest individual block)  
: 49 N/mm<sup>2</sup> (average of 16 paving blocks)

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### TEST REPORT ON WATER ABSORPTION OF INTERLOCK

Owner	N.P.	Report No.	TMR16050178
ACES' Client	Qatar Clay Bricks Co. W.L.L	Date Reported	03-09-16
Contractor	Qatar Clay Bricks Co. W.L.L	Sample No.	TMS16026465
Consultant	N.P.	Request No.	TMQ16018007
Project No.	N.P.	Client Reference	Full payment in advance
Project Name	Private		


Sample Description	Interlock S#01	Sampled By	Client's Rep.
Source	Qatar Clay Blocks	Sampling Date	28-08-16
Sample Location	N.P.	Sampling Cert.	N.P.
Lab Ref No.	N.P.	Sampling Method	-
Lot Size	N.P.	Sample Size	200x100x60 mm
Work Size	200x100x60 mm	Colour	Gray
Test Method	BS EN 1338 - 2003 ( Annex-E )	Sample Brt. In By	Client's Rep.
Test Method Var.	-	Date Received	28-08-16
Tested By	Amjad	Date Tested	29-08-16

Specimen No.	Water Absorption (%)
1	2.6
2	2.5
3	2.7
Average	2.6


Remarks :-  
- The test results related only to the specimen(s) tested.  
- QCS 2014 Requirements :  
Max. 5% ( Average )  
Max. 6% ( Individual )




Eng. Ghaleb Al-Zubi  
Head of Materials Department



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### TEST REPORT ON WATER ABSORPTION OF INTERLOCK

Owner	N.P.	Report No.	TMR16050182
ACES' Client	Qatar Clay Bricks Co. W.L.L	Date Reported	03-09-16
Contractor	Qatar Clay Bricks Co. W.L.L	Sample No.	TMS16026466
Consultant	N.P.	Request No.	TMQ16018007
Project No.	N.P.	Client Reference	Full payment in advance
Project Name	Private		


Sample Description	Interlock S#02	Sampled By	Client's Rep.
Source	Qatar Clay Blocks	Sampling Date	28-08-16
Sample Location	N.P.	Sampling Cert.	N.P.
Lab Ref No.	N.P.	Sampling Method	-
Lot Size	N.P.	Sample Size	200x100x80 mm
Work Size	200x100x80 mm	Colour	Gray
Test Method	BS EN 1338 - 2003 ( Annex-E )	Sample Brt. In By	Client's Rep.
Test Method Var.	-	Date Received	28-08-16
Tested By	Amjad	Date Tested	29-08-16

Specimen No.	Water Absorption (%)
1	2.6
2	2.8
3	2.6
Average	2.7


Remarks :-  
- The test results related only to the specimen(s) tested.  
- QCS 2014 Requirements :  
Max. 5% ( Average )  
Max. 6% ( Individual )




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### TEST REPORT ON WATER ABSORPTION OF INTERLOCK

Owner	N.P.	Report No.	TMR16053765
ACES' Client	Qatar Clay Bricks Co. W.L.L	Date Reported	10-08-16
Contractor	Qatar Clay Bricks Co. W.L.L	Sample No.	TMS16023408
Consultant	N.P.	Request No.	TMQ16015506
Project No.	N.P.	Client Reference	Full payment in advance
Project Name	Private		


Sample Description	Interlock (Uni Sape) S#02	Sampled By	Client's Rep.
Source	Qatar Clay Bricks	Sampling Date	31-07-16
Sample Location	N.P.	Sampling Cert.	N.P.
Lab Ref No.	N.P.	Sampling Method	-
Lot Size	N.P.	Sample Size	N.P.
Work Size	N.P.	Colour	Gray
Test Method	BS EN 1338 - 2003 ( Annex-E )	Sample Brt. In By	Client's Rep.
Test Method Var.	-	Date Received	31-07-16
Tested By	Raj Kumar	Date Tested	06-08-16

Specimen No.	Water Absorption (%)
1	3.2
2	2.6
3	2.7
Average	2.8


Remarks :-  
- The test results related only to the specimen(s) tested.  
- QCS 2014 Requirements :  
Max. 5% ( Average )  
Max. 6% ( Individual )




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### TEST REPORT ON WATER ABSORPTION OF INTERLOCK

Owner	N.P.	Report No.	TMR16053762
ACES' Client	Qatar Clay Bricks Co. W.L.L	Date Reported	10-08-16
Contractor	Qatar Clay Bricks Co. W.L.L	Sample No.	TMS16023405
Consultant	N.P.	Request No.	TMQ16015506
Project No.	N.P.	Client Reference	Full payment in advance
Project Name	Private		


Sample Description	Interlock (Uni Sape) S#01	Sampled By	Client's Rep.
Source	Qatar Clay Bricks	Sampling Date	31-07-16
Sample Location	N.P.	Sampling Cert.	N.P.
Lab Ref No.	N.P.	Sampling Method	-
Lot Size	N.P.	Sample Size	N.P.
Work Size	N.P.	Colour	Gray
Test Method	BS EN 1338 - 2003 ( Annex-E )	Sample Brt. In By	Client's Rep.
Test Method Var.	-	Date Received	31-07-16
Tested By	Raj Kumar	Date Tested	06-08-16

Specimen No.	Water Absorption (%)
1	2.8
2	2.5
3	2.9
Average	2.7


Remarks :-  
- The test results related only to the specimen(s) tested.  
- QCS 2014 Requirements :  
Max. 5% ( Average )  
Max. 6% ( Individual )




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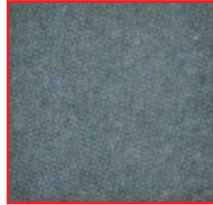
صوب ١٩٥٧٩، الدوحة، قطر هاتف: ١٤١ ١١ ٨٧٠ ٩٧١ - فاكس: ١٤١ ١١ ٨٧٠ ٩٧١  
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# PRODUCT COLOR CODES

GREY



DARK GREY



RED



SPL RED



BLACK



N.YELLOW



GREEN



TAN



B.YELLOW



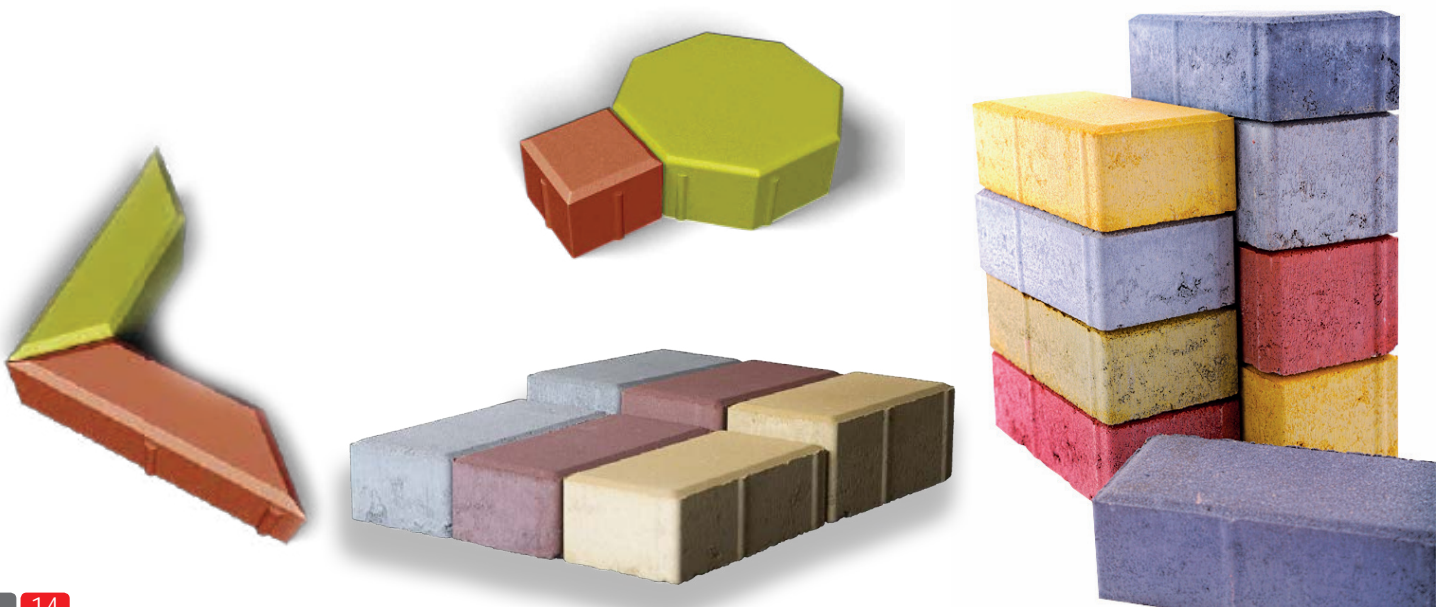
BROWN

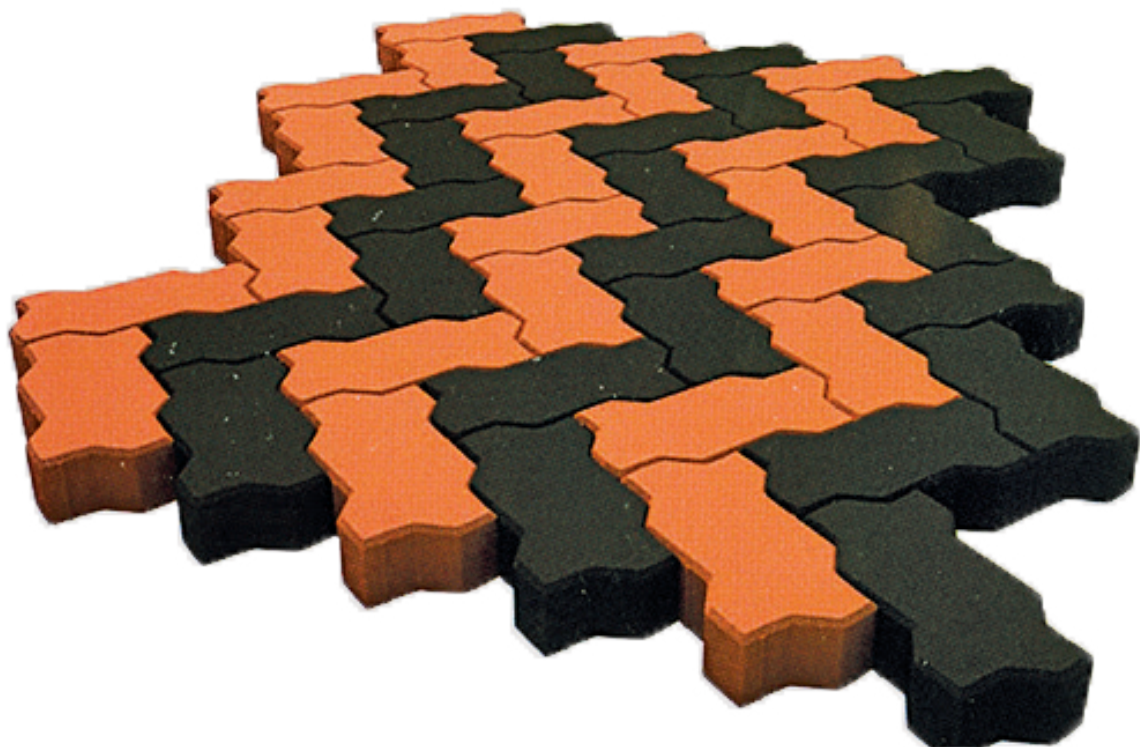
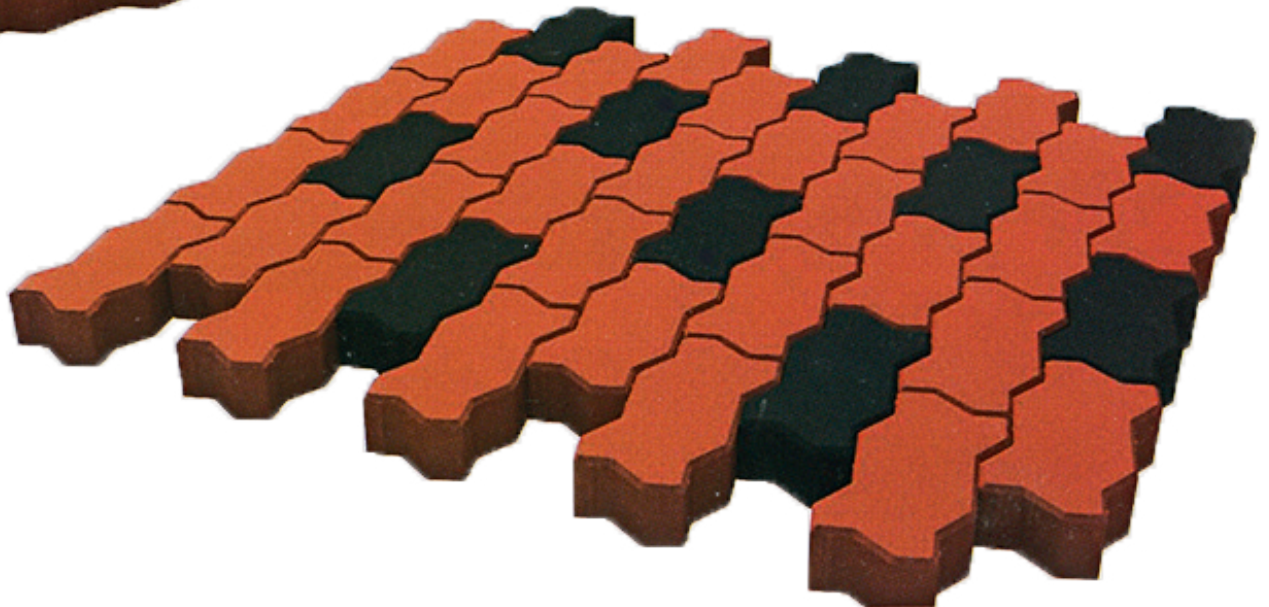
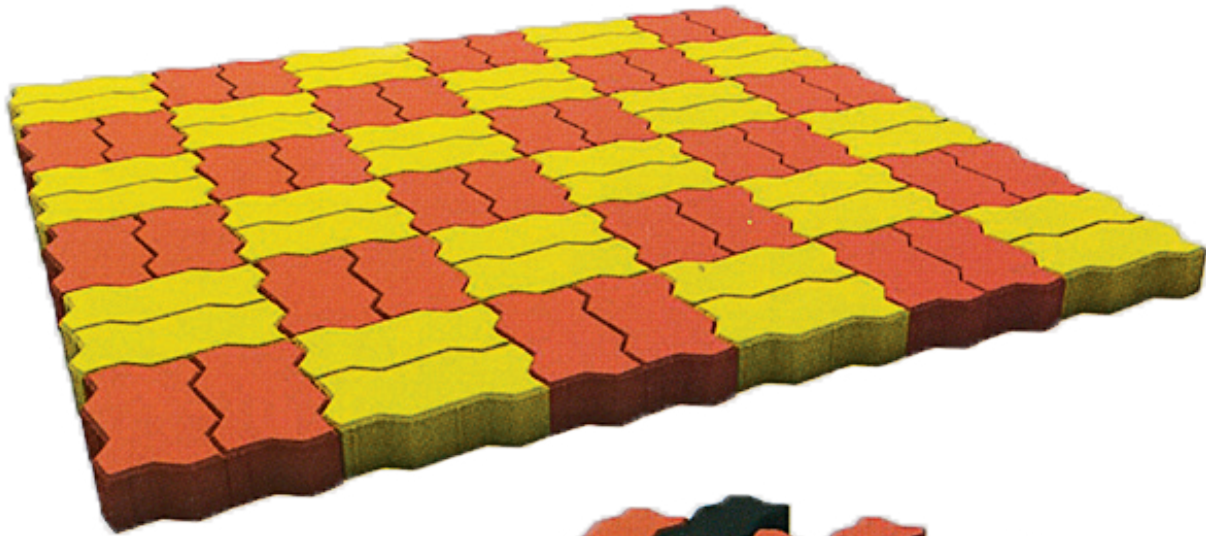


BEIGE

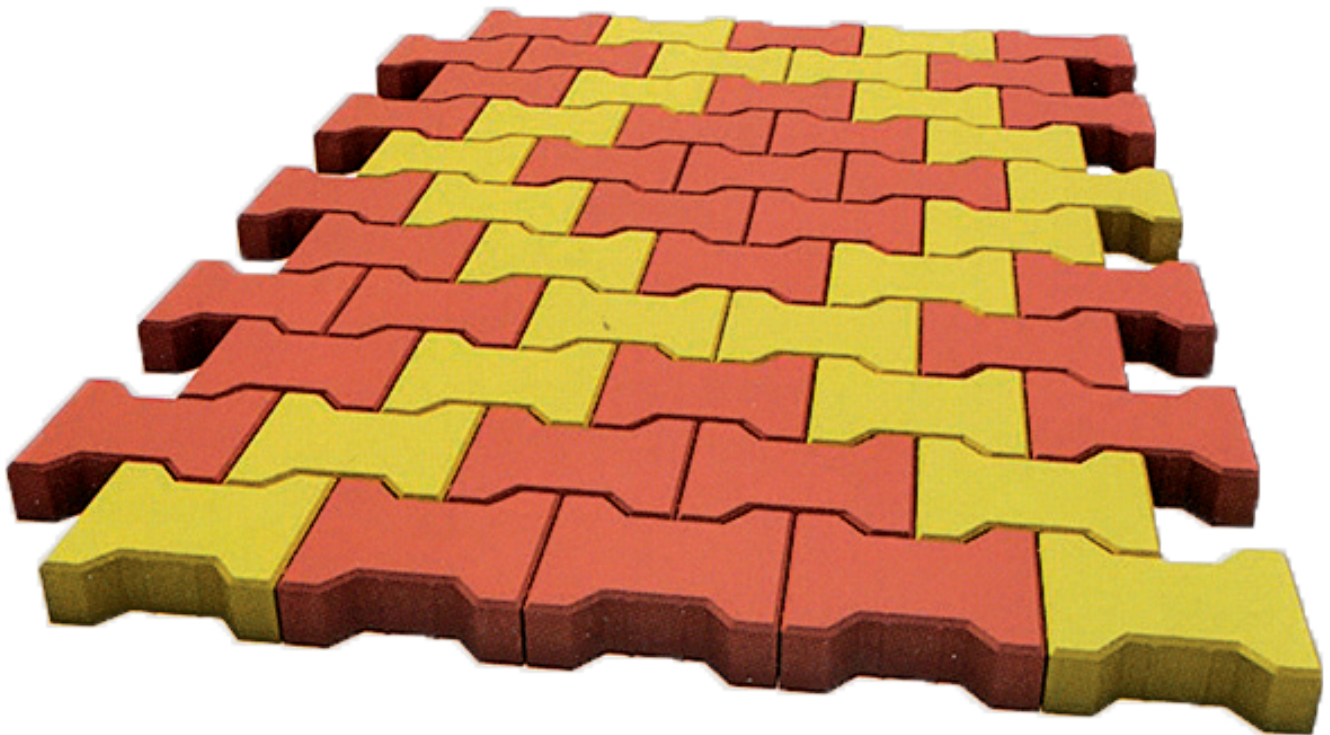
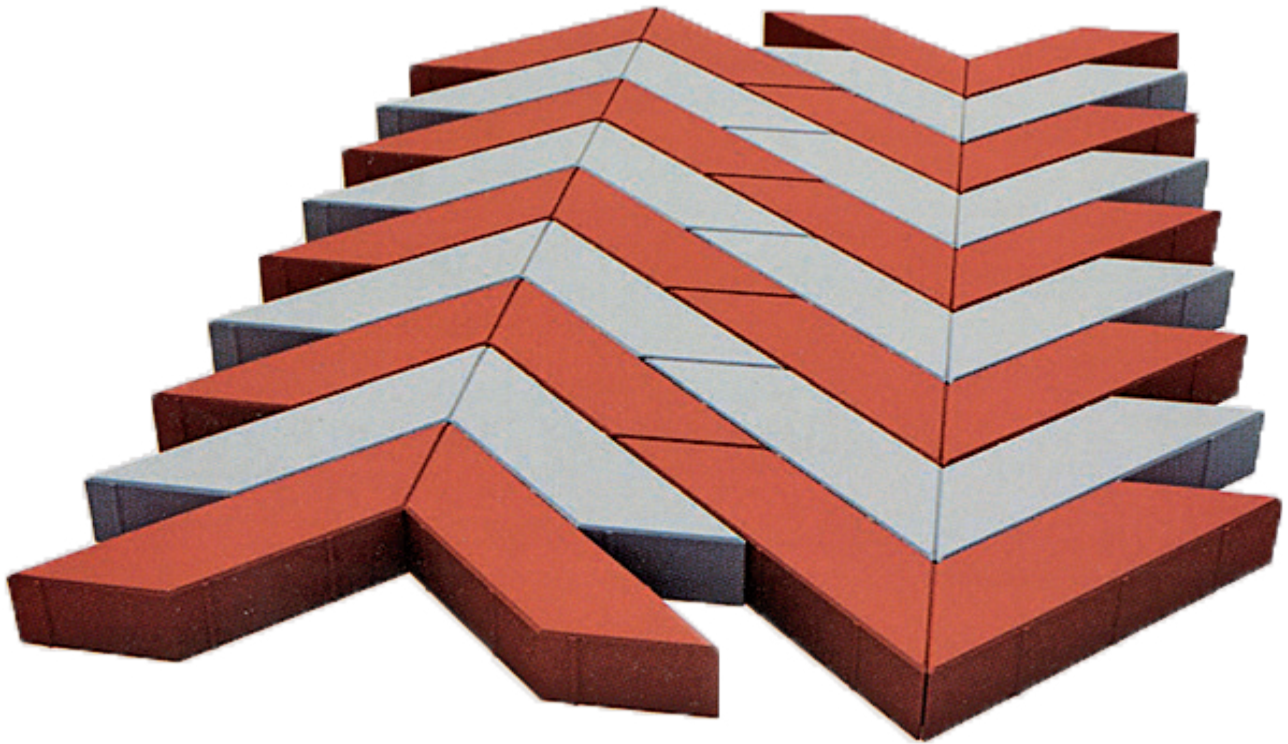


N.BEEIGE









## PAVING BLOCK LAYING GUIDELINES

Only minimum tools are required for laying the paving block tiles.

**These are:**

- A ) Mechanical vibrator for bedding the paving block and compacting the sub base.
- B ) Hand operated hydraulic stone splitter for cutting blocks.
- C) For some designs we produce half size.

Typically, there are three layers in block paving.

### The Sub Base

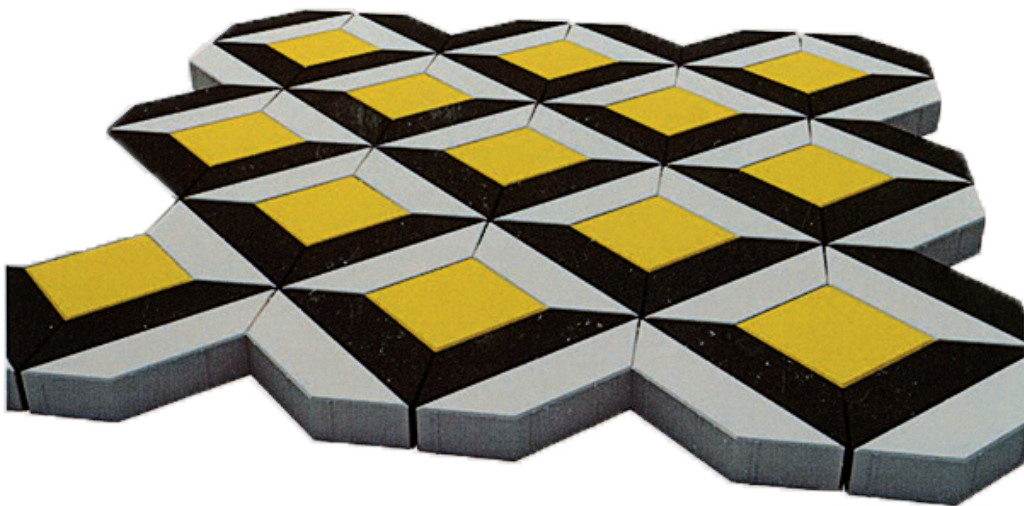
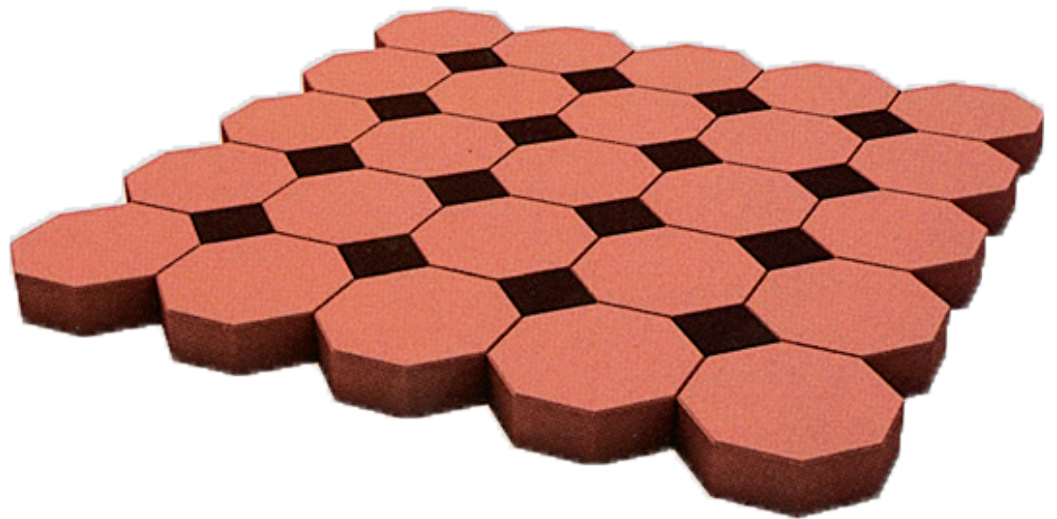
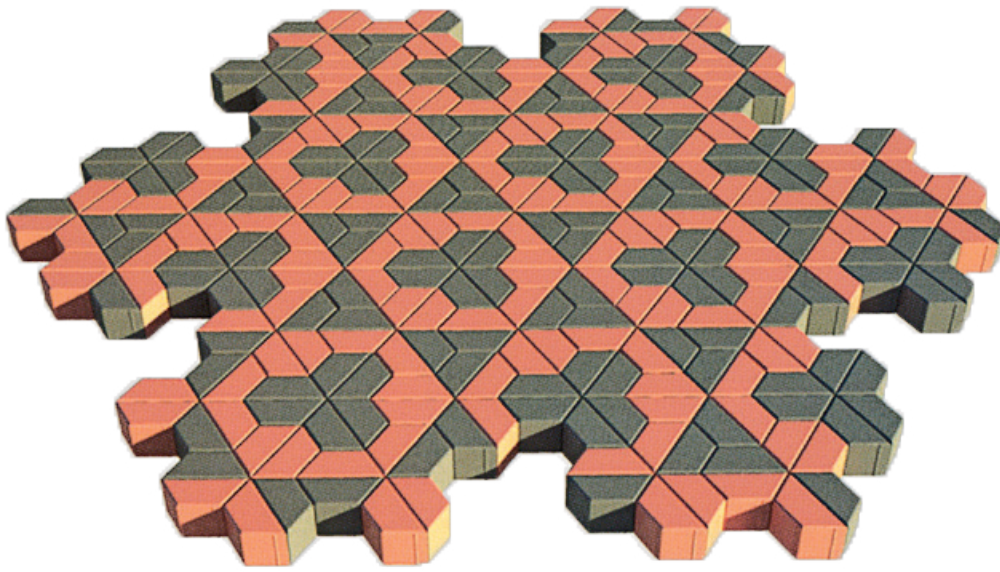
The lay for a conventional road depends on the nature of the ground and traffic. The sub-base must be free of debris or mud and its surface should be level.

### The laying course

A layer of carefully screeded sand about 50mm deep. The sand must be washed containing not more than %3 of silt and clay. To achieve the best regularity in the finished road surface, the sand should be uniform in both type and moisture content. It is essential to carry out screeding to the required level, which can be done from the kerb or temporary screed rails. The sand used in the laying course must be laid to surcharges, the amount of which is normally in the range of 15-5mm. This is required as the paving blocks above the laying course will be lowered below the initial level by vibra.

### The surface course

Each block has to be placed very carefully so as not to disturb the neighbouring blocks. The positioning of the first block demands extra care. To give the required pattern, the block must be placed at the correct angle against a firm starting edge such as a row of concrete channel blocks. All blocks must be laid so that they fit closely. If joints begin to open, the blocks should be knocked together with a mallet. Care must be taken not to tilt the blocks on the loading edge of the laying face by standing or kneeling on them. Where blocks do not fit at the edges, the spaces are filled with cut blocks, split using the hydraulic stone splitter.



## PAVING BLOCK LAYING GUIDELINES

### Vibration

The blocks are vibrated to their final level with a plate vibrator which includes a 10mm thick rubber cushion. A machine with a plate area between 0.2 and 0.3 square meters and centrifugal force of approximately 1 tone is suitable. The vibrator should be guided over of the whole area, avoiding any undertained edge by about a meter. Two or three passes will normally be needed to vibrate the blocks to the finished level.

### Filling the joints

After the initial vibration, sand is brushed over the surface of the blocks and is vibrated into the joints of 1mm-1.5mm wide by a further two or three passes of the plate vibrator. After all the joints are filled, surplus sand can be swept away.

### Installation of Interlocking Pavers

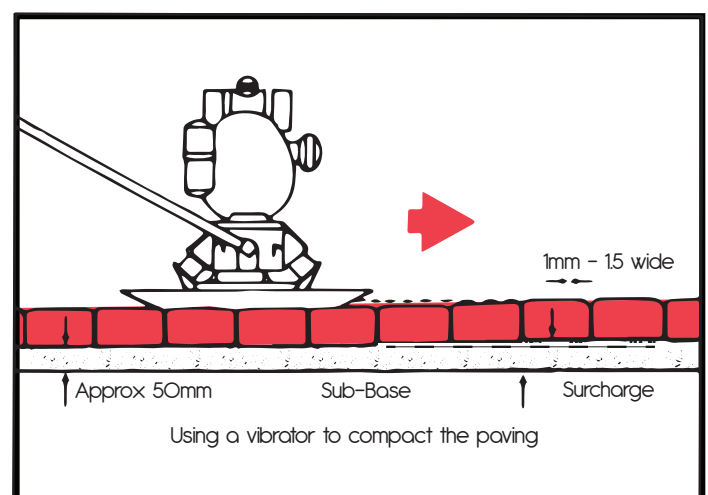
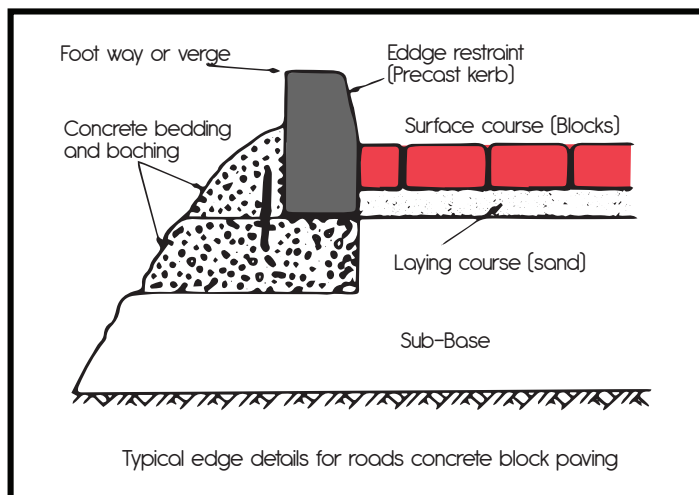
To achieve a clean and durable pavers surface, it is essential the sub base is carefully prepared.

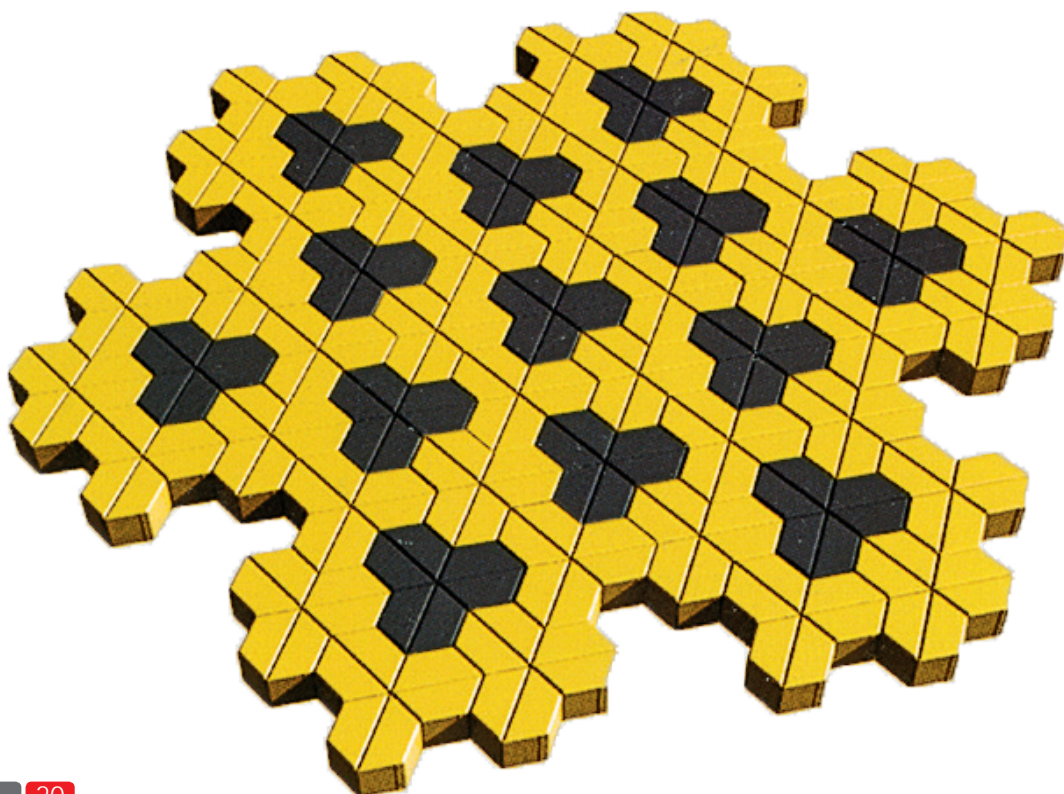
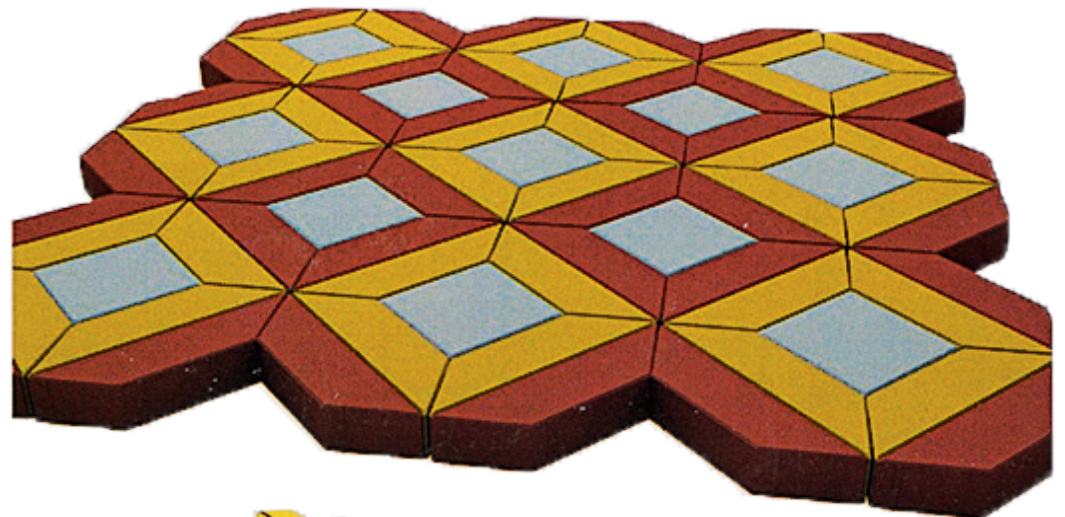
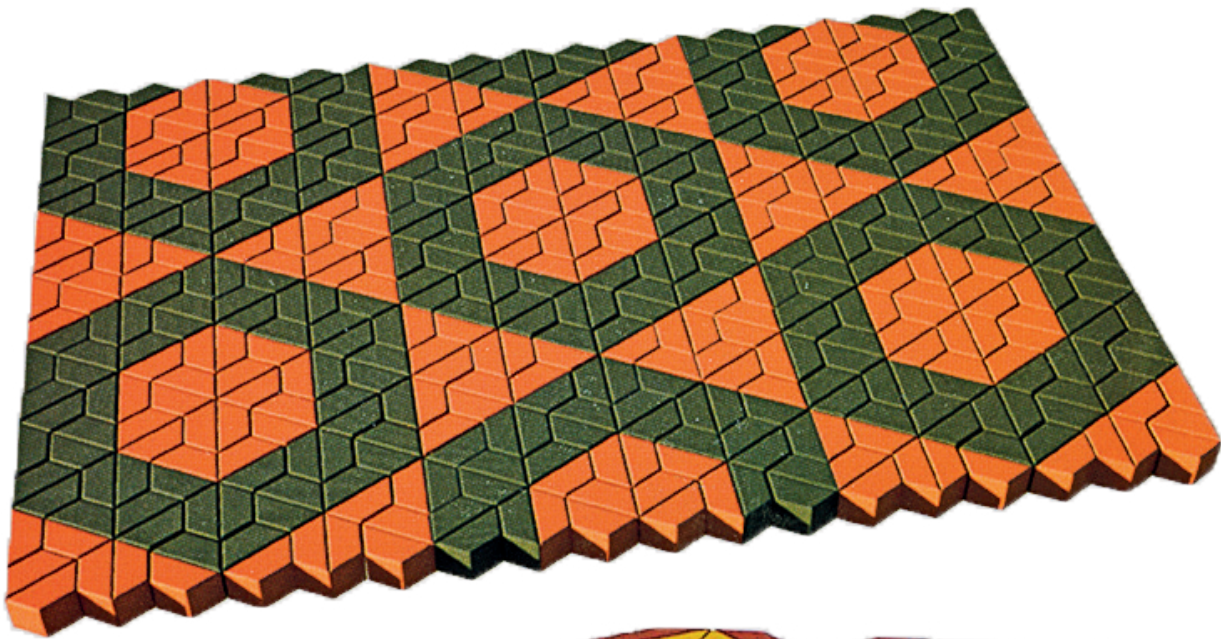
According to load, apply first of a 10 to 30cm. thick granular base material 30-0mm on top of natural soil.

Compaction is then applied ( if necessary, drainge must be taken into account at this state ). This follows 5-3cm. thick sand bedding which must be screeded.

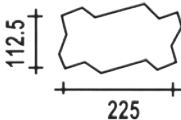


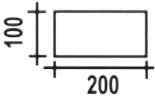
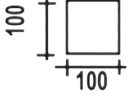
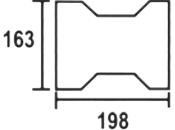
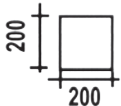
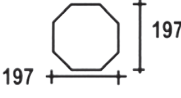
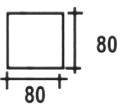
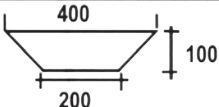
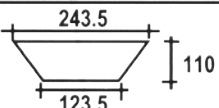
Install pavers into uncompacted sand bed leaving a 3mm installation joint between the tiles. Cover the entire area with fine sand, filling the joints. Use a plate vibrator with rubber to compact pavers into sand bed to the desired level.

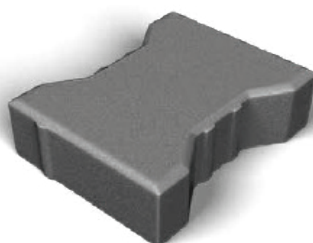
The area is immediately ready for use.





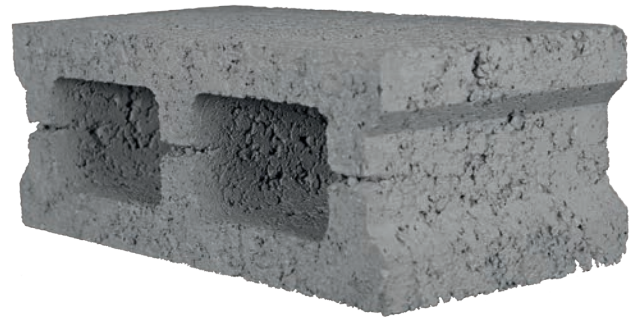
## DIMENSIONS OF PAVING BRICKS

SR. NO.	PAVER TYPE	SHAPE AND DIMENSIONS		THICKNESS (MM)	WEIGHT/BLOCK KG.	NO./M <sup>2</sup>
1	UNI SHAPE	STANDARD BLOCK		60	3.56	39
				80	4.75	
		HALF BLOCK		60	1.75	78
				80	2.30	
		STARTER BLOCK 45°		60	4.40	32
				80	5.85	
2	RECTANGULAR	STANDARD BLOCK		60	2.95	50
				80	3.93	
				100	4.91	
				120	5.89	
		HALF BLOCK		60	1.48	100
				80	1.96	
3	BEHATON	STANDARD BLOCK		60	4.00	36
4	SQUARE	STANDARD BLOCK		60	5.90	25
				80	7.86	
5	QUADRO	OCTAGONAL		60	4.70	25
		CUBE		60	0.97	156
6	TRAPEZ (3D)	STANDARD		60	4.30	33
7	DECOR	STANDARD		60	2.99	45
				80	3.99	





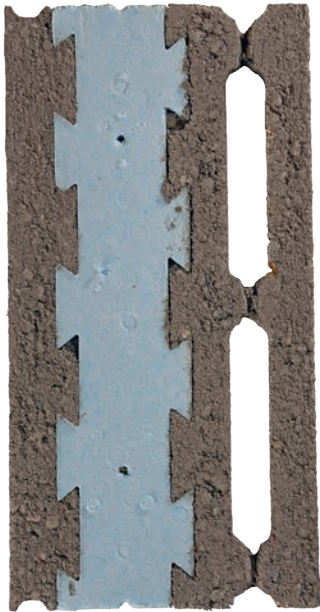
Hollow Bricks 20x20x40cm



Hollow Bricks 15x20x40cm



Hollow Bricks 10x20x40cm



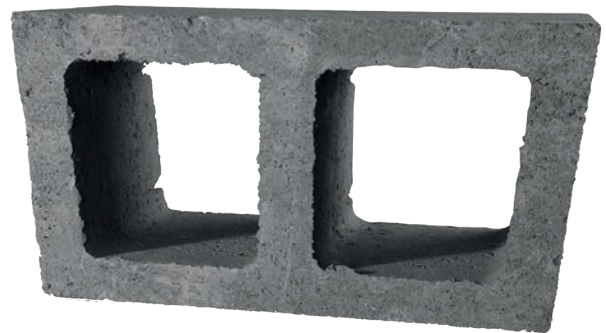
Thermal Insulated Brick 20X20X40cm  
Polystyrene Th. 7.5 cm



Thermal Insulated Brick 20X20X40cm  
Polystyrene Th. 6cm



Hordi Brick for Ceiling 20X20X40cm



Hordi Brick for Ceiling 25X20X40cm



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### TEST REPORT ON COMPRESSIVE STRENGTH OF CLAY BLOCKS

Page 1 of 1

Owner	N.P.	Report No.	TMR16036719
ACES Client	Qatar Clay Bricks Co. W.L.L	Date Reported	12-06-16
Contractor	Qatar Clay Bricks Co. W.L.L	Sample No.	TMS16014288
Consultant	N.P.	Request No.	TMQ16009702
Project No.	N.P.	Client Reference	Full Payment in Advance
Project Name	Private		
Sample Description	08" Clay Blocks	Sampled By	Client's Rep.
Source	N.P.	Sampling Date	19-05-16
Sample Location	N.P.	Sampling Cert.	N.P.
Inr No	N.P.	Sampling Method	-
Lot Size	N.P.	Sample Size	400x200x200 mm
Work Size	400x200x200 mm	Colour	N.P.
Test Method	BS 6073- Part 2 App. B & Part 1 App. A -2008	Sample Brt. In By	Client's Rep.
Test Method Var.	No sample conditioning; Caliper used for checking dimension.	Date Received	19-05-16
Tested By	Govinda	Date Tested	04-06-16

Test Results:

Block No.	Dimensions (mm) l*w*h	Compressive Strength (N/mm <sup>2</sup> )
1	400 * 200 * 200	8.0
2	400 * 200 * 199	8.9
3	400 * 200 * 199	8.6
4	400 * 200 * 200	9.3
5	400 * 200 * 201	8.6
6	400 * 200 * 200	9.3
7	400 * 200 * 199	7.8
8	400 * 200 * 200	7.6
9	400 * 200 * 200	9.5
10	400 * 200 * 199	8.0

Min.	7.6
Average	8.6
Strd. Dev	0.7

Remarks :- The test results related only to the specimen(s) tested.

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### TEST REPORT ON COMPRESSIVE STRENGTH OF HOLLOW BLOCKS

Page 1 of 1

Owner	N.P.	Report No.	TMR16053715
ACES Client	Qatar Clay Bricks Co. W.L.L	Date Reported	10-08-16
Contractor	Qatar Clay Bricks Co. W.L.L	Sample No.	TMS16023410
Consultant	N.P.	Request No.	TMQ16015507
Project No.	N.P.	Client Reference	Full payment in advance
Project Name	Private		
Sample Description	06" Hollow Blocks	Sampled By	Client's Rep.
Source	Qatar Clay Bricks	Sampling Date	31-07-16
Sample Location	N.P.	Sampling Cert.	-
Pin No.	N.P.	Sampling Method	-
Production Date	N.P.	Sample Size	400x200x150 mm
Work Size	400x200x150 mm	Colour	N.P.
Test Method	BS 6073- Part 2 App. B & Part 1 App. A -2008	Sample Brt. In By	Client's Rep.
Test Method Var.	No sample conditioning; Caliper used for checking dimension.	Date Received	31-07-16
Tested By	Govinda	Date Tested	04-08-16

Test Results:

Block No.	DIMENSIONS (mm)	MIN. Shell Thickness (mm)	Voids Ratio (%)	Compressive Strength (N/mm <sup>2</sup> )
1	400 * 150 * 200	33	41.4	9.8
2	400 * 150 * 200	33	41.4	9.0
3	400 * 150 * 200	33	41.4	10.5
4	400 * 150 * 200	33	41.4	10.2
5	400 * 150 * 200	33	41.4	9.7
6	400 * 150 * 200	33	41.4	10.2
7	400 * 150 * 200	33	41.4	9.3
8	400 * 150 * 200	33	41.4	11.1
9	400 * 150 * 200	33	41.4	10.2
10	400 * 150 * 200	33	41.4	9.9

Min.	9.0
Average	10.0
Strd. Dev	0.6

Remarks :- The test results related only to the specimen(s) tested.

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Materials Dept. Manager

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### TEST REPORT ON COMPRESSIVE STRENGTH OF HOLLOW BLOCKS

Page 1 of 1

Owner	N.P.	Report No.	TMR16053695
ACES Client	Qatar Clay Bricks Co. W.L.L	Date Reported	10-08-16
Contractor	Qatar Clay Bricks Co. W.L.L	Sample No.	TMS16023409
Consultant	N.P.	Request No.	TMQ16015507
Project No.	N.P.	Client Reference	Full payment in advance
Project Name	Private		
Sample Description	04" Hollow Blocks	Sampled By	Client's Rep.
Source	Qatar Clay Bricks	Sampling Date	31-07-16
Sample Location	N.P.	Sampling Cert.	-
Pin No.	N.P.	Sampling Method	-
Lot Size	N.P.	Sample Size	400x200x100 mm
Work Size	400x200x100 mm	Colour	-
Test Method	BS 6073- Part 2 App. B & Part 1 App. A -2008	Sample Brt. In By	Client's Rep.
Test Method Var.	No sample conditioning; Caliper used for checking dimension.	Date Received	31-07-16
Tested By	Salman	Date Tested	04-08-16

Test Results:

Block No.	DIMENSIONS (mm)	MIN. Shell Thickness (mm)	Voids Ratio (%)	Compressive Strength (N/mm <sup>2</sup> )
1	400 * 100 * 200	30	30.9	12.0
2	400 * 100 * 200	30	30.9	10.6
3	400 * 100 * 200	30	30.9	11.1
4	400 * 100 * 200	30	30.9	11.3
5	400 * 100 * 200	30	30.9	11.5
6	400 * 100 * 200	30	30.9	12.5
7	400 * 100 * 200	30	30.9	10.8
8	400 * 100 * 200	30	30.9	11.7
9	400 * 100 * 200	30	30.9	11.8
10	400 * 100 * 200	30	30.9	12.4

Min.	10.6
Average	11.6
Strd. Dev	0.7

Remarks :- The test results related only to the specimen(s) tested.

Eng. Ghalab Al-Zubi  
Materials Dept. Manager

0003639644

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**CTI GROUP QATAR**  
كونستركشن كيشن تكنولوجي لابورتريس جروب ذ.م.م.  
CONSTRUCTION TECHNOLOGY LABORATORIES GROUP W.L.L.

### Compressive Strength of Masonry Units

BS EN 772-1, 772-16, 772-28

Client: Qatar Clay Bricks, P.O. Box: 1509, Doha- State of Qatar

Contractor: N/A

Consultant: N/A

Project: Evaluation of Material

Location: Street 52 - Industrial area

Sample types\*: Insulation Block 20cm

Supplier/Source: N/A

Production date: N/A

Receiving date: 28-Dec-2016

Testing date: 1-Jan-2017

Deviation: N/A

Report SN #: 16410 (RPT-0080-R4-1/1)

Issue date: 2-Jan-2017

Job order #: 1014

Sampled by: Client

Sampling method: N/A

Environment: N/A

Specimen reference	DE28-004	DE28-005	DE28-006
Method of surface preparation	Mortar capping		
Method of conditioning	Air dry		
Description of the measuring device	Vernier Caliper		
Way of measuring	Two measurements taken near the edges of each specimen		
Average Length (mm)	395.5	395.5	395.0
Average Width (mm)	200.0	200.5	200.5
Average Height (mm)	198.5	196.0	199.5
Foam Area (mm <sup>2</sup> )	29850	29526	29452
Air Space Area (mm <sup>2</sup> )	6872	6624	6394
Net Area (mm <sup>2</sup> )	42678	43148	43352
Gross Area (mm <sup>2</sup> )	79100	79298	79198
Failure load (N)	618700	552300	513300
Compressive Strength - Net area (MPa)	14.5	12.8	11.8
Compressive Strength - Gross area (MPa)	7.8	7.0	6.5
Shape factor		1.15	
Normalised Compressive Strength (MPa)	9.0	8.0	7.4
Average Normalised Compressive Strength (MPa)		8.1	
Coefficient of variation (%)		8.5	


Classes	QCS 2014, Section: 13-Part 04-Table 4.5		QCS 2014, Section: 13-Part 04-Table 4.6			
	Minimum Compressive Strength (N/mm <sup>2</sup> )		Block Dimensions and Wall and Web Thicknesses			
	Average of 3 Blocks	Lowest Individual Block	Nominal Size (mm)	Work size (mm)	Min. Thickness (mm)	Web
1	7.0	5.6			19	19
2	10.4	8.3			25	25
3	17.4	14.0	400x200x100	390x190x100	25	25
4	14.0	11.2	400x200x150	390x190x150	25	25
5	4.0	3.6	400x200x200	390x190x200	32	30


Information provided by client



Mahmoud Al-Shoubi  
QA/QC Engineer / Lab Supervisor

Mohamad Saad  
Laboratory Manager

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State of Qatar - Doha Industrial Area, Kanana Road, R/A 41, P.O. Box 14212 | CR: 46008 | Tel: 40370130 | Gf: 55569744 | Email: info@ctigroup.com | Web: www.ctigroup.com

**كونستركشن تكنولاجي لاابورتريس جروب ذ.م.م.**  
**CONSTRUCTION TECHNOLOGY LABORATORIES GROUP W.L.L.**

**Fire Resistance of Concrete and Masonry Construction Assemblies**  
**ACT 216.1-97**

Client: Qatar Clay Bricks, P.O.Box: 1569, Doha- State of Qatar  
Contractor: N/A  
Consultant: N/A  
Project: Evaluation of Material  
Location: Street 52 - Industrial area  
Sample type\*: Hollow Block 20cm  
Report SN #: 16368 (RPT-0076-R2-1/1)  
Supplier/Source: N/A  
Issue date: 2-Jan-2017  
Production date: N/A  
Job order #: 1014  
Receiving date: 28-Dec-2016  
Sampled by: Client  
Testing date: 29-Dec-2016  
Sampling method: N/A  
Deviation: N/A  
Environment: N/A

Specimen reference	DE28-001	DE28-002	DE28-003
Average Length (in)	15.75	15.77	15.75
Average Width (in)	7.94	7.93	7.95
Average Height (in)	7.89	7.90	7.91
Gross Volume (in <sup>3</sup> )	986.7	987.9	990.4
Air space volume (in <sup>3</sup> )	463.2	461.2	456.8
Net Volume (in <sup>3</sup> )	523.5	526.8	523.6
Equivalent thickness of concrete masonry (in)	4.21	4.23	4.20
Equivalent thickness of finishes (in)	0.0	0.0	0.0
Estimated Fire resistance rating (hrs)	2.0	2.0	2.0
Estimated Fire resistance rating - average (hrs)	2.0		

Mahmoud Al Shbouh  
QA/QC Engineer / Lab Supervisor

Mohamad Sabra  
Laboratory Manager

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**كونستركشن تكنولاجي لاابورتريس جروب ذ.م.م.**  
**CONSTRUCTION TECHNOLOGY LABORATORIES GROUP W.L.L.**

**Thermal Properties of Concrete & Masonry Systems**  
**ACT 122**

Client: M/s Qatar Clay Bricks  
Contractor: N/A  
Consultant: N/A  
Project: Evaluation of Material  
Location: Str: 52 - Industrial area  
Report SN #: 14772 (RPT-0138-R1-1/1)  
Sample type: Insulated Concrete Masonry Unit (400x200x200mm)  
Issue date: 10-Nov-2016  
Sample reference: N/A  
Job order #: 0918  
Supplier/Source: M/s Qatar Clay Bricks  
Sampled by: Client  
Received on: 6-Nov-2016  
Sampling Method: N/A  
Testing date: 8-Nov-2016  
Environment: N/A  
CTLG-Q reference: NCO6-001 to 003  
Deviation: N/A

Property	Value
Thermal conductance - K value of masonry concrete W/(m <sup>2</sup> K)	1.100
Thermal conductivity - K value of EPS W/(m <sup>2</sup> K)**	0.036
Thermal resistivity - R value of section A (m <sup>2</sup> K/W)**	0.028
Thermal resistivity - R value of section B (m <sup>2</sup> K/W)**	N/A
Thermal resistivity - R value of section C (m <sup>2</sup> K/W)**	0.022
Thermal resistivity - R value of section D (m <sup>2</sup> K/W)**	2.056
Thermal resistivity - R value of section E (m <sup>2</sup> K/W)**	0.027
Total thermal resistance - R value of insulated CMU (m <sup>2</sup> K/W)	3.269

Thermal transmittance - U value of insulated CMU (W/m<sup>2</sup>K)\*\*\*: 0.31

\*\*ASIRAE chapter 28, typical K value for a CMU having density of 2200-2300kg/m<sup>3</sup>  
\*\*\*Value stated in supplier technical data sheet (provided by client)  
\*\*\*\*Based on existing thickness of each section (as shown in adjacent photo)  
\*\*\*\*\*Computed U value excludes any thermal bridges, air gaps, things, mortar/plaster & moisture content

Mahmoud Al Shbouh  
QA/QC Engineer / Lab Supervisor

Mohamad Sabra  
Laboratory Manager

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**كونستركشن تكنولاجي لاابورتريس جروب ذ.م.م.**  
**CONSTRUCTION TECHNOLOGY LABORATORIES GROUP W.L.L.**

**Fire Resistance of Concrete and Masonry Construction Assemblies**  
**ACT 216.1-97**

Client: Qatar Clay Bricks, P.O.Box: 1569, Doha-State of Qatar  
Contractor: N/A  
Consultant: N/A  
Project: Evaluation of Material  
Location: Industrial Area  
Sample type\*: Hollow Block 15cm (Gravel)  
Report SN #: 18647 (RPT-0076-R2-1/1)  
Supplier: N/A  
Issue date: 29-Mar-2017  
Client reference: N/A  
Job order #: 1211  
Receiving date: 22-Mar-2017  
Sampled by: Client  
Testing date: 25-Mar-2017  
Sampling method: N/A  
Deviation: N/A  
Environment: N/A

CTLG-Q reference	MA22-044	MA22-045	MA22-046
Average Length (in)	15.75	15.75	15.75
Average Width (in)	3.92	3.98	3.90
Average Height (in)	7.80	7.79	7.79
Gross Volume (in <sup>3</sup> )	481.6	488.3	478.5
Air space volume (in <sup>3</sup> )	99.5	122.5	93.1
Net Volume (in <sup>3</sup> )	382.0	365.9	385.4
Equivalent thickness of concrete masonry (in)	3.11	2.96	3.14
Equivalent thickness of finishes (in)	1.0	1.0	1.0
Estimated Fire resistance rating (hrs)	1.9	1.8	1.9
Estimated Fire resistance rating - average (hrs)	1.9		

Mahmoud Al Shbouh  
Acting Laboratory Supervisor

Mohamad Sabra  
Deputy Laboratory Manager

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**CONSTRUCTION TECHNOLOGY LABORATORIES GROUP W.L.L.**

**Fire Resistance of Concrete and Masonry Construction Assemblies**  
**ACT 216.1-97**

Client: Qatar Clay Bricks, P.O.Box: 1569, Doha-State of Qatar  
Contractor: N/A  
Consultant: N/A  
Project: Evaluation of Material  
Location: Industrial Area  
Sample type\*: Hollow Block 15cm (Gravel)  
Report SN #: 18648 (RPT-0076-R2-1/1)  
Supplier: N/A  
Issue date: 29-Mar-2017  
Client reference: N/A  
Job order #: 1211  
Receiving date: 22-Mar-2017  
Sampled by: Client  
Testing date: 25-Mar-2017  
Sampling method: N/A  
Deviation: N/A  
Environment: N/A

CTLG-Q reference	MA22-041	MA22-042	MA22-043
Average Length (in)	15.79	15.79	15.75
Average Width (in)	5.94	5.95	5.96
Average Height (in)	7.91	7.87	7.85
Gross Volume (in <sup>3</sup> )	741.9	739.4	736.9
Air space volume (in <sup>3</sup> )	260.6	270.3	264.6
Net Volume (in <sup>3</sup> )	481.3	469.1	472.3
Equivalent thickness of concrete masonry (in)	3.85	3.77	3.82
Equivalent thickness of finishes (in)	1.0	1.0	1.0
Estimated Fire resistance rating (hrs)	2.6	2.5	2.6
Estimated Fire resistance rating - average (hrs)	2.6		

Mahmoud Al Shbouh  
Acting Laboratory Supervisor

Mohamad Sabra  
Deputy Laboratory Manager

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**ACES**  
Arab Center المركز العربي  
For Engineering Studies للدراسات الهندسية

### TEST REPORT ON WATER ABSORPTION OF HOLLOW BLOCKS

Owner	N.P.	Report No.	TMR16053731
ACES' Client	Qatar Clay Bricks Co. W.L.L	Date Reported	10-08-16
Contractor	Qatar Clay Bricks Co. W.L.L	Sample No.	TMS16023411
Consultant	N.P.	Request No.	TMQ16015507
Project No.	N.P.	Client Reference	Full payment in advance
Project Name	Private		

Sample Description	06" Hollow Blocks	Sampled By	Client's Rep.
Source	Qatar Clay Bricks	Sampling Date	31-07-16
Sample Location	N.P.	Sampling Cert.	N.P.
Lot No.	N.P.	Sampling Method	N.P.
Lot Size	N.P.	Sample Size	400x200x200 mm
Work Size	400x200x200 mm	Colour	N.P.

Test Method	CML-9-97	Sample Brt. In By	Client's Rep.
Test Method Var.	-	Date Received	31-07-16
Tested By	Safer	Date Tested	04-08-16

Test Results:

Specimen No.	Water Absorption (%)
1	5.2
2	5.2
3	4.2
<b>Average</b>	<b>4.9</b>

Remarks :

- The test results related only to the specimen(s) tested.
- QCS 2014 Requirements Section 13 Part 4:  
Maximum average water absorption should not exceed 7%.  
No individual block shall have a water absorption greater than 7.5%.

Eng. Ghaleb Al-zubi  
Head of Materials Department

0 0 0 3 6 3 9 6 4 9 .

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**ACES**  
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For Engineering Studies للدراسات الهندسية

### TEST REPORT ON WATER ABSORPTION OF HOLLOW BLOCKS

Owner	N.P.	Report No.	TMR16053718
ACES' Client	Qatar Clay Bricks Co. W.L.L	Date Reported	10-08-16
Contractor	Qatar Clay Bricks Co. W.L.L	Sample No.	TMS16023410
Consultant	N.P.	Request No.	TMQ16015507
Project No.	N.P.	Client Reference	Full payment in advance
Project Name	Private		

Sample Description	06" Hollow Blocks	Sampled By	Client's Rep.
Source	Qatar Clay Bricks	Sampling Date	31-07-16
Sample Location	N.P.	Sampling Cert.	N.P.
Lot No.	N.P.	Sampling Method	N.P.
Lot Size	N.P.	Sample Size	400x200x150 mm
Work Size	400x200x150 mm	Colour	N.P.

Test Method	CML-9-97	Sample Brt. In By	Client's Rep.
Test Method Var.	-	Date Received	31-07-16
Tested By	Safer	Date Tested	04-08-16

Test Results:

Specimen No.	Water Absorption (%)
1	5.0
2	4.3
3	5.3
<b>Average</b>	<b>4.9</b>

Remarks :

- The test results related only to the specimen(s) tested.
- QCS 2014 Requirements Section 13 Part 4:  
Maximum average water absorption should not exceed 7%.  
No individual block shall have a water absorption greater than 7.5%.

Eng. Ghaleb Al-zubi  
Head of Materials Department

0 0 0 3 6 3 9 6 4 7 .

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### TEST REPORT ON WATER ABSORPTION OF HOLLOW BLOCKS

Owner	N.P.	Report No.	TMR16053703
ACES' Client	Qatar Clay Bricks Co. W.L.L	Date Reported	10-08-16
Contractor	Qatar Clay Bricks Co. W.L.L	Sample No.	TMS16023409
Consultant	N.P.	Request No.	TMQ16015507
Project No.	N.P.	Client Reference	Full payment in advance
Project Name	Private		

Sample Description	04" Hollow Blocks	Sampled By	Client's Rep.
Source	Qatar Clay Bricks	Sampling Date	31-07-16
Sample Location	N.P.	Sampling Cert.	N.P.
Lot No.	N.P.	Sampling Method	N.P.
Lot Size	N.P.	Sample Size	400x200x100 mm
Work Size	400x200x100 mm	Colour	N.P.

Test Method	CML-9-97	Sample Brt. In By	Client's Rep.
Test Method Var.	-	Date Received	31-07-16
Tested By	Safer	Date Tested	04-08-16

Test Results:

Specimen No.	Water Absorption (%)
1	5.7
2	5.8
3	5.7
<b>Average</b>	<b>5.7</b>

Remarks :

- The test results related only to the specimen(s) tested.
- QCS 2014 Requirements Section 13 Part 4:  
Maximum average water absorption should not exceed 7%.  
No individual block shall have a water absorption greater than 7.5%.


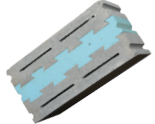
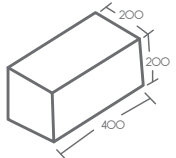
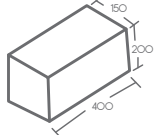
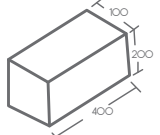
Eng. Ghaleb Al-zubi  
Head of Materials Department

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E-mail: acesdoha@aces-int.com www.aces-int.com

# BLOCK DETAILS

NO.	BLOCK TYPE	LOCK SIZE & DIMENSIONS	THICKNESS	LENGTH	WIDTH	WEIGHT/ BLOCK (Kgs)	PCS / BDL.	
1	HOLLOW BLOCK	8"		200	400	200	20	72
		6"		200	400	150	16	96
		4"		200	400	100	12	132
2	THERMAL INSULATED BRICKS	8"		200	400	200	20	48
		10"		250	400	200	20	48
3	HORDI FOR CEILING	8"		200	400	200	20	72
		10"		250	400	200	20	60
4	SOLID BLOCK	8"		200	400	200	37	80
		6"		200	400	150	27	88
		4"		200	400	100	18	88

## KERBSTONE

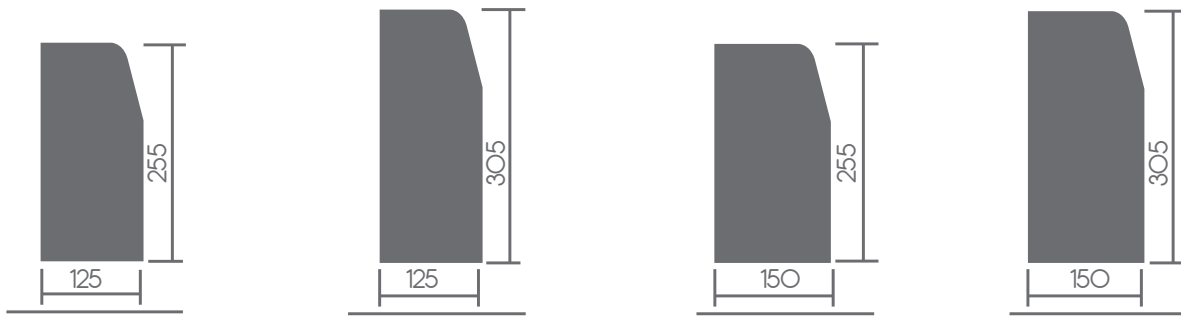
Kerbstone is available in cement colour, Red, Black, Yellow and other colour can be manufactured as per customers choice.



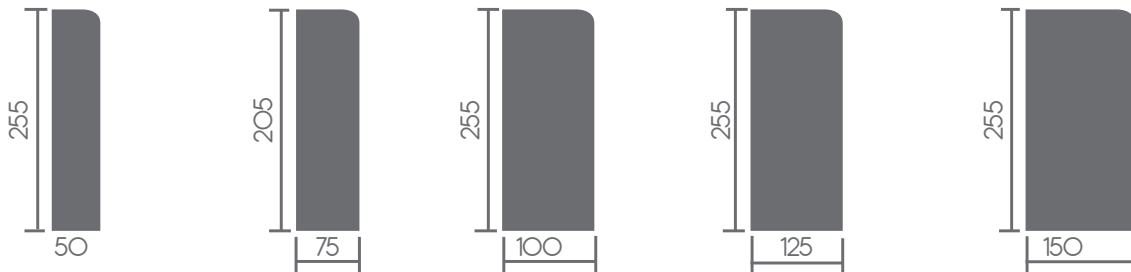
Our range of kerbstone are designed to complement your block paving and at the same time serves as an ideal, attractive edge restraint. Extensive engineering and a good selection of components make this an exceptional bonding unit for paving blocks .

**All precast concrete kerbs, channels and edging shall be hydraulically pressed complying with BS EN 1340 and QCS - 2010**

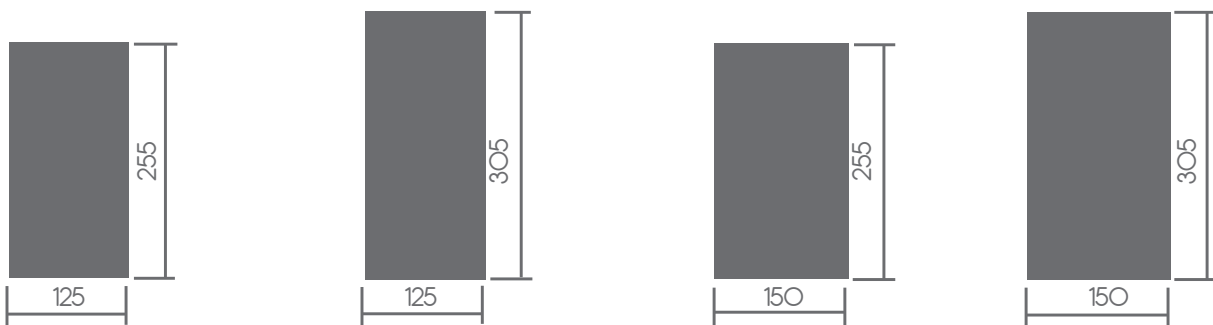
### HALF BATTER



### BULL NOSED



### FLUSH



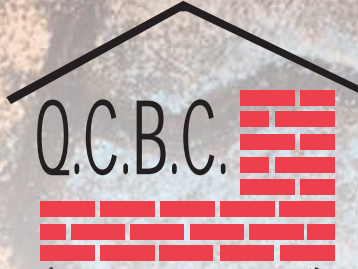


شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS CO.



شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS CO.





شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.  
إحدى شركات الصناعات التحويلية  
Subsidiary of QIMC



الشركة القطرية للصناعات التحويلية (ش.م.ق.)  
QATAR INDUSTRIAL MANUFACTURING CO. (Q.S.C.)



شارع ٥٢ - المنطقة الصناعية - الدوحة بوابة رقم ١٢٥

Tel: +974 4460 3124 / 4460 3487 / 4460 3157 Fax: +974 4460 3481

Street 52, Gate No. 125 - Industrial Area, Doha - Qatar

E-mail: info@qcbc.com.qa - Website: www.qcbc.com.qa



## 7. ISO Certificates

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.

# Certificate of Registration

This is to certify that the Management System of:

**Qatar Clay Bricks Co.**

**Industrial Area Zone No. 57, Street No.52, And Gate No.125. P.O Box: 1569, Doha, Qatar**

has been approved by Alcumus ISOQAR and is compliant with the requirements of:

**ISO 9001:2015**

**ISO 14001:2015**

**ISO 45001:2018**



<b>Certificate Number:</b>	<b>21945-Q15-001</b>
<b>Certificate Number:</b>	<b>21945-E15-001</b>
<b>Certificate Number:</b>	<b>21945-OHS-001</b>
<b>Initial Registration Date:</b>	<b>05 October 2022</b>
<b>Expiry Date:</b>	<b>05 October 2025</b>

## Scope of Registration:

Manufacture of Concrete Bricks (Wall Masonry Bricks, Thermal Insulated Bricks, Hourdi Blocks) Interlock Pavers and Kerb Stones

Signed:  
Alyn Franklin, Chief Executive Officer  
(on behalf of Alcumus ISOQAR)



This certificate will remain current subject to the company maintaining its system to the required standard. This will be monitored regularly by Alcumus ISOQAR. Further clarification regarding the scope of this certificate and the applicability of the relevant standards' requirement may be obtained by consulting Alcumus ISOQAR.

**QS22-1118**  
**REGISTERED**  
By  
Qatar General Organization for  
Standardization

## 8. Conformity Certificates

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.

# CONFORMITY CERTIFICATE

وفقاً للائحة الصادرة بقرار وزير البلدية والبيئة رقم (١٦٨) لسنة ٢٠١٧م  
According to the Ministerial Decree No. (168)/2017

Certificate No: **BF 650**

Validity: **03-12-2023**

**EXTERNAL NON-LOAD  
Hollow Block**

Issued : **04-12-2022**

<b>Products</b>	Concrete Hollow Blocks – 400x200x150 mm (M6) (Using limestone Aggregate + OPC)
<b>Manufacturer</b>	<b>Qatar Clay Bricks Company .</b> P.O.Box : 1569 Doha-Qatar Tel : 44603124 Fax: 44603481
<b>Factory location</b>	IND. Area ST. 52

## Responsibility

The engineers and consultants must be checked the quality of products at any time according to the requirements of the project.

## Condition

- The above manufacturer was determined as satisfactory at the time of inspection with the quality audit in accordance of standard regimes and requirements of the QCS 2014.
- This conformity certificate shall remain valid for the period shown provided the below are adhered to.
- The conformity certificate was granted upon the request of the manufacturer.

## Requirements

- 1- The continuance of this certificate requires the above manufacturer to apply the approved quality assurance scheme to provide access to Qatar Standards (QS) at any reasonable time to audit the quality assurance scheme and test any products.
- 2- Compliance tests for the approved quality assurance scheme shall be carried out by an approved materials testing laboratory and copies forwarded to QS.
- 3- The approved quality assurance scheme shall be as notified in writing by QS.

## Notes:

1. QS has no any responsibility for supplying of modified or poor quality by the manufacture / supplier during the validity period.
2. It is important to apply two months before expiry date of validity for renewal of this conformity certificate.
3. The required fee for this certificate has been stated according to the decision No. (112)/2019

Recommended by:.....



Head of CC Section

Authorized by:.....

Director of Quality & Conformity Dept.



Approved by: .....

PRESIDENT, QGOS



CONFORMITY CERTIFICATE

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وفقاً للائحة الصادرة بقرار وزير البلدية والبيئة رقم (١٦٨) لسنة ٢٠١٧ م  
According to the Ministerial Decree No. (168)/2017

Certificate No: **BF 649**

Validity: **03-12-2023**

**EXTERNAL NON-LOAD  
Hollow Block**

Issued : **04-12-2022**

<b>Products</b>	Concrete Hollow Blocks – 400x200x200 mm (M6) (Using limestone Aggregate + OPC)
<b>Manufacturer</b>	<b>Qatar Clay Bricks Company .</b> P.O.Box : 1569 Doha-Qatar Tel : 44603124 Fax: 44603481
<b>Factory location</b>	IND. Area ST. 52

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Approved by:.....

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وفقاً لللائحة الصادرة بقرار وزير البلدية والبيئة رقم (١٦٨) لسنة ٢٠١٧ م  
According to the Ministerial Decree No. (168)/2017

<b>Certificate No:</b> <u>BF 651</u>	<b>Validity:</b> <u>03-12-2023</u>
<b>EXTERNAL NON-LOAD Hollow Block</b>	
<b>Issued : 04-12-2022</b>	

<b>Products</b>	Concrete Hollow Blocks – 400x200x100 mm (M6) (Using limestone Aggregate + OPC)
<b>Manufacturer</b>	<b>Qatar Clay Bricks Company .</b> P.O.Box : 1569 Doha-Qatar Tel : 44603124 Fax: 44603481
<b>Factory location</b>	IND. Area ST. 52

## Responsibility

The engineers and consultants must be checked the quality of products at any time according to the requirements of the project.

## Condition




- The above manufacturer was determined as satisfactory at the time of inspection with the quality audit in accordance of standard regimes and requirements of the QCS 2014.
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Recommended by:  Head of CC Section  
Authorized by:  Director of Quality & Conformity Dept.  
Approved by:  PRESIDENT, QGOS



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وفقاً لللائحة الصادرة بقرار وزير البلدية والبيئة رقم (١٦٨) لسنة ٢٠١٧ م  
According to the Ministerial Decree No. (168)/2017

Certificate No: PK 896

Validity: 30-08-2023

**Precast Concrete Product**  
**Paving block**

Issued : 31-08-2022

Products	Precast Concrete paving block – (Grey) Rectangular Size 200*100*60 mm. (Using wash sand + Gabbro course Aggregate + OPC)
Manufacturer	<b>QATAR CLAY BRICKS COMPANY.</b> P.O.Box : 17308 Doha-Qatar Tel : 44603487 Fax: 44603481
Factory location	IND. Area ST. 52

## Responsibility

The engineers and consultants must be checked the quality of products at any time according to the requirements of the project.

## Condition

- The above manufacturer was determined as satisfactory at the time of inspection with the quality audit in accordance of standard regimes and requirements of the QCS 2014 section 6 part 11 for products and section 5 for raw materials .
- This conformity certificate shall remain valid for the period shown provided the below are adhered to.
- The conformity certificate was granted upon the request of the manufacturer.

## Requirements

- 1- The continuance of this certificate requires the above manufacturer to apply the approved quality assurance scheme to provide access to the Qatar Standard (QS) at any reasonable time to audit the quality assurance scheme and test any products.
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وفقاً لللائحة الصادرة بقرار وزير البلدية والبيئة رقم (١٦٨) لسنة ٢٠١٧ م  
According to the Ministerial Decree No. (168)/2017

Certificate No: PK 897

Validity: 30-08-2023

**Precast Concrete Product**  
**Paving block**

Issued : 31-08-2022

Products	Precast Concrete paving block – (Grey) Rectangular Size 200*100*80 mm. (Using wash sand + Gabbro course Aggregate + OPC)
Manufacturer	<b>QATAR CLAY BRICKS COMPANY.</b> P.O.Box : 17308 Doha-Qatar Tel : 44603487 Fax: 44603481
Factory location	IND. Area ST. 52

## Responsibility

The engineers and consultants must be checked the quality of products at any time according to the requirements of the project.

## Condition

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وفقاً لللائحة الصادرة بقرار وزير البلدية والبيئة رقم (١٦٨) لسنة ٢٠١٧ م  
According to the Ministerial Decree No. (168)/2017

Certificate No: PK 895

Validity: 30-08-2023

**Precast Concrete Product**  
**Paving block**

Issued : 31-08-2022

Products	Precast Concrete paving block – (Red) Rectangular Size 200*100*60 mm. (Using wash sand + Gabbro course Aggregate + OPC)
Manufacturer	<b>QATAR CLAY BRICKS COMPANY.</b> P.O.Box : 17308 Doha-Qatar Tel : 44603487 Fax: 44603481
Factory location	IND. Area ST. 52

## Responsibility

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Approved by:.....

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وفقاً لللائحة الصادرة بقرار وزير البلدية والبيئة رقم (١٦٨) لسنة ٢٠١٧م  
According to the Ministerial Decree No. (168)/2017

Certificate No: **PK 894**

Validity: **30-08-2023**

**Precast Concrete Product  
Paving block**

Issued : **31-08-2022**

<b>Products</b>	Precast Concrete paving block – (Red) Rectangular Size 200*100*80 mm. (Using wash sand + Gabbro course Aggregate + OPC)
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Approved by: .....

**PRESIDENT, QGOS**



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## 9. Company Quality Plan & QC Procedure

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.



شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.

# شركة قطر للطابوق الأحمر QATAR CLAY BRICKS COMPANY (C.Q.S.C.)

رأس المال المدفوع ٥٠,٠٠٠,٠٠٠ ريال قطري Paid up Capital QR 50,000,000

QATAR CLAY BRICKS CO. is in the business of Manufacture of Concrete Bricks (Wall Masonry Bricks, Thermal Insulated Bricks, Hourdi Blocks) and Interlock Pavers"

QATAR CLAY BRICKS CO. is committed to implement and maintain Integrated Management System in line with ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 standard requirements and deliver flawless customer service to the satisfaction of the our valued customers while holding Health, Safety and Environment as a core business value.

QATAR CLAY BRICKS CO. endeavor to achieve this by;

- Providing timely and quality product and services ensuring high level of customer satisfaction and sustainable development.
- Continually improving QHSE management by carrying out potential risk assessment, environmental aspect & impact assessment, waste minimization through Reduce, Reuse and Recycle system for optimized use of resources.
- Ensuring compliance with applicable statutory, regulatory and other requirements applicable to State of Qatar laws.
- Providing safe and healthy workplace for our employee to prevent injury and ill health.
- Ensuring continuous training, supervisions and effective means of communication regarding Quality, Health, Safety and Environment within the organization and with other interested parties.

QATAR CLAY BRICKS CO. shall continually improve the effectiveness of the Integrated Management System by periodic review of its policy & objectives and ensure that this policy is communicated, understood, implemented and maintained throughout the organization and made it available for interested parties.

Factory Manager



## 1. SCOPE

The quality assurance and the quality procedures applicable to production of Concrete block in MASA plant.

## 2. DETAILS OF PLANT & MACHINERY

MASA 9200 XL Plant, Germany -1 Unit

Humidity Curing Chamber, MASA, Germany – 1 Unit

Daily Production Capacity-Masonry Block 80,000 Units per day/Paver 3,000 m<sup>2</sup> per day

## 3. MATERIAL TESTING

Concrete ingredients are tested every delivery in the internal laboratory & every 6 months confirmative test are done at a third party laboratory as per Qatar Construction Standards.

## 4. PRODUCTION CONTROL

During production inspection are done during production and monitored for conformance as per QCS.

Routine dimension inspection are done during production and monitored for conformance as per QCS.

## 5. PRODUCT TESTING

After completion of curing period samples are collecting random from plant & tested in the internal laboratory for the following criteria as per schedule.

1. Dimension Compliance
2. Compressive Strength
3. Water Absorption
4. Tensile Splitting Test
5. Abrasion Test – *as per project request*
6. Fire Resistance – *as per project request*
7. Thermal Properties -*as per project request*

Every 6 months normal samples are send to external laboratory for confirmative testing as per specific requirements.

## 6. CALIBRATION OF PLANT

Batching and mixing are calibrated by an approved external agency yearly to maintain ingredient proportion accuracy.



## 10. Company Health & Safety Manual

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.

# Qatar Clay Bricks Co. Health, & Safety Manual

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## QHSE Policy

To demonstrate the Top Management's commitment, a QHSE Policy has been established taking into account customer requirement, **Qatar Clay Bricks Co.** requirement and the legal and the regulatory requirements of Qatar.

The QHSE Policy established provides a framework for developing objectives and targets. The QHSE Policy is documented and is communicated throughout **Qatar Clay Bricks Co.**

The QHSE Policy also confirms commitment to meet the requirements of ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 and to continually improve the IMS. **Refer QHSE Policy.**

This QHSE Policy is reviewed periodically for continuing suitability or when a change that affects the IMS has been introduced **whichever comes first** and then is approved by the CEO prior to distribution.

## Rules, Responsibilities & Authorities

Top management of **Qatar Clay Bricks Co.** has assigned responsibilities, and authorities for relevant roles, as given in organization structure. For all levels of employees the job description is prepared with the responsibility. The job description is communicated to all concerned and is understood by all levels of employees. Top Management has assigned responsibility and authority for;

- a) Ensuring that the Quality management system, environmental management system and occupational health and safety management system conforms to the requirements of ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018,
- b) Ensuring that the processes are delivering their intended outputs,
- c) Reporting the performance of the QHSE Management System and an opportunities for improvement in particular to the Top Management,
- d) Ensuring the promotion of customer focus throughout the organization,
- e) Ensuring that the integrity of the management system is maintained when changes to the QHSE Management System are planned and implemented,

Top Management has defined responsibilities, authorities and their interrelation for all the persons and communicated within the organization. All staff members are responsible for maintaining QHSE of their own work and for informing their Respective Heads for any conditions, which are adverse to the environmental, health and safety of the work being produced or adverse to the protection of environment, OHS hazards etc.

**Refer: Organization Chart, Roles and Responsibilities (Job Descriptions).**

### Consultation and participation of workers:

**Qatar Clay Bricks Co.** has established process and provides platform for participation and consultation of various Company workers for;

- Their consultation and participation includes;

- Their involvement in determining the needs and expectations of interested parties
- Their involvement in identifying OHS hazards, assessing risks & opportunities, Training needs and determining control measures and their effective implementation and use.
- Their involvement in incident investigation,
- Their involvement in development and review of OHS Policy and objectives of the Company
- Their consultation in terms of suggestion for improvement and any changes that affects their OHS,
- Their representation in safety meeting considering the OH&S matters.

All workers are informed for their participation arrangement in Health and Safety Management System by active participation in the safety training, tool box meetings, near miss reporting, incident investigation, nonconformities and determining corrective actions. Consultation is also done with the contract workers if any, when there is change, which affects their OHS.

To promote more involvement of workers for Consultation and participation with respect OHS, **Qatar Clay Bricks Co.** also introduce motivational schemes like Best Safety Suggestion, Best employee of the month, safety awards etc.

Refer: **Communication Participation & Consultation Procedure (QCB-IMS-P12)**

## QHSE Management System Planning

### Addressing Risk & Opportunity

**Qatar Clay Bricks Co.** considers risks and opportunities when taking actions within the management system, as well as when implementing or improving the management system; likewise, these are also considered relative to facility management services. Risks and opportunities are identified as part of SWOT Exercise and as well as in **Qatar Clay Bricks Co.** planning activities.

Risks and opportunities are managed in accordance with the procedure (**Risk and Opportunities Management Procedure – QCB-IMS-P02**). This procedure defines how risks are managed in order to minimize their likelihood and impact, and how opportunities are managed to improve their likelihood and benefit.

### Environmental Aspects

**Qatar Clay Bricks Co.** identifies the environmental aspects of its activities, products and services that it can control and those that it can influence, and their associated environmental impacts, considering a life cycle perspective. When determining environmental aspects, QCB take into account

- Change, including planned or new developments, and new or modified activities, products and services;
- Abnormal conditions and reasonably foreseeable emergency situations.

**Qatar Clay Bricks Co.** also identifies as “Significant” those environmental aspects which give a significant impact as identified by the Significance Rating in procedure **Environmental Aspect-Impact Procedure – QCB-HSE-P02** and those that are above the legal limit. These are also considered while setting objectives and targets.

## Hazard identification and assessment of risks and opportunities

**Qatar Clay Bricks Co.** has implemented and maintained a procedure to identify the ongoing hazards, assessing risks & opportunities and determine the necessary controls taking into account routine and non-routine activities, activities of all persons accessing the workplace (including contractors and visitors), human behavior, capabilities and other human factors. (**Procedure Hazard Identification & Risk Management Procedure – QCB-HSE-P01**)

The methodology is based on the scope, nature, timing and also considers proactive, reactive controls and clearly identifies and prioritizes the risks. Any changes in the organization's set-up are first and foremost risk assessed and then implemented. The risk assessments done are on the basis of developing and implementing controls.

Controls include mitigation of risks and the hierarchy of determination is as sequenced below;

- Eliminate / Terminate
- Substitute / Transfer
- Engineering Controls / Treat
- Signage / Warnings and or Administrative Controls / Tolerate
- Personal Protective Equipment / Tolerate

The Hazard identification and Risk Assessment procedure is reviewed every year or as and when an incident occurs **whichever comes first**. Risk assessment is also reviewed for minor injuries and minor near-misses and if the controls are still found to be adequate, then no changes are made, rather the personnel may be put on training for improvement.

**Qatar Clay Bricks Co.** has establish, implement and maintain a process to assess OH&S opportunities to enhance OH&S performance, while taking into account planned changes to the organization, its policies, its processes or its activities and:

- Opportunities to adapt work, work organization and work environment to workers;
- Opportunities to eliminate hazards and reduce OH&S risks;
- Other opportunities for improving the OH&S management system.

## Legal and Other Requirement

**Qatar Clay Bricks Co.** determines and apply relevant legal requirements and other requirements applicable to organization's operations. These applicable laws are enlisted and updated in the Legal Register. The HR & Admin Manager ensures updating and circulating them appropriately.

The information regarding changes in the legal requirements are obtained from notices /memos from government bodies and from the Media. Internet is also used for identifying any changes to the legal requirement.

# 11. Equipment & Machinery Caliberation Certificates

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.



C.R. No: 86920, P.O.Box: 55760, Doha - Qatar,  
Tel: + 974 44436750 , Fax: +974 44413980



## CALIBRATION CERTIFICATE

Calibration No. : 500000945

Calibration Date : 04-06-2022  
Company Name : **Qatar Clay Bricks Company,**  
Addr: Doha ,Qatar QA

### EQUIPMENT DETAILS

Equipment Type : Batching Plant  
Manufacturer : MASA  
Model : MASA XL 9.2  
Serial No : 201400004.2010  
Scale Specification : DOSING BUCKET  
Capacity : 500.0  
Division : 1.0 Kg

Calibration Method : RTQ.CM.04 (Batching Plant)  
Calibration Due : 04-09-2022  
Work Order : 0003589/100000619  
Temperature : 42 °C  
Calibrated By : Bodusha Vali Allapalli Shaik  
Location : Industrial Area  
Accepted Tolerance :  $\pm 3\%$

### RESULT OF CALIBRATION

Test Weight	Dead Load Applied	Displayed Weight	Error In(Kg)	Error In %
0 Kg	0 Kg	0 Kg	0 Kg	0.00 %
40 Kg	0 Kg	40 Kg	0 Kg	0.00 %
80 Kg	0 Kg	80 Kg	0 Kg	0.00 %
100 Kg	0 Kg	100 Kg	0 Kg	0.00 %
200 Kg	0 Kg	200 Kg	0 Kg	0.00 %
300 Kg	0 Kg	299 Kg	1 Kg	0.33 %
400 Kg	0 Kg	400 Kg	0 Kg	0.00 %
500 Kg	0 Kg	499 Kg	1 Kg	0.20 %

Repeatability	
Mass	Error
100 Kg	0
100 Kg	0
100 Kg	0
100 Kg	0

Max Error In Kg : 1

Max Error In % : 0.33

Calibration Measurement Capability (CMC) :0.0003 Kg

### VERIFICATION RESULT

Repeatability :PASS  
Accuracy/Linearity :PASS

### REFERENCE INSTRUMENT USED IN CALIBRATION

The above mentioned Equipment has been calibrated & verified by the standard calibrator mention below. Calibration perform & executed as per metrological aspect.

### CALIBRATOR

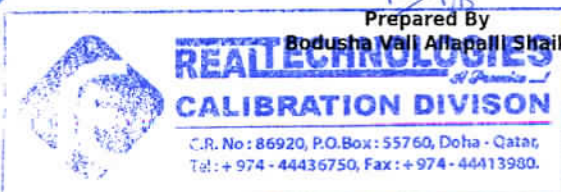
Description	Serial No.	Tracking Number
1 BP20	RT201-RT254	2021/SW/0089

**NOTE: -** The above equipment accuracy complies with the requirement of QCS 2015, ISO/IEC 17025 specification.

The validity is subject to the equipment maintained in good condition and will be considered void if the equipment is misused, improperly erected or damages in any ways.

### FOR REAL TECHNOLOGIES

Technical Director  
MEER AREES NAZIR



Approved By  
Hogan Kodinhi Parambil

ISO 9001 : 2015 , ISO 14001 : 2015 , ISO 45001 : 2018 & ISO 17025 : 2017 Certified Company

*Sales, Service, Calibration of complete range of weighing equipments*

*Solutions for Industrial Equipments*

Email : [info@realtechgulf.com](mailto:info@realtechgulf.com) , Website : [www.realtechgulf.com](http://www.realtechgulf.com)



C.R. No: 86920, P.O.Box: 55760, Doha - Qatar,  
Tel: + 974 44436750 , Fax: +974 44413980



## CALIBRATION CERTIFICATE

Calibration No. : 50000948

Calibration Date : 04-06-2022  
Company Name : **Qatar Clay Bricks Company,**  
Addr: Doha ,Qatar QA

### EQUIPMENT DETAILS

Equipment Type : Batching Plant  
Manufacturer : MASA  
Model : MASA XL 9.2  
Serial No : 201400004.2010  
Scale Specification : Colour(Scale)  
Capacity : 30.00 Kg  
Division : 0.01 Kg

Calibration Method : RTQ.CM.04 (Batching Plant)  
Calibration Due : 04-09-2022  
Work Order : 0003589/100000619  
Temperature : 42 °C  
Calibrated By : Bodusha Vali Allapalli Shaik  
Location : Industrial Area  
Accepted Tolerance :  $\pm 1.5$  %

### RESULT OF CALIBRATION

Test Weight	Dead Load Applied	Displayed Weight	Error In(Kg)	Error In %
0.00 Kg	0.00 Kg	0.00 Kg	0.00 Kg	0.00 %
2.00 Kg	0.00 Kg	2.00 Kg	0.00 Kg	0.00 %
5.00 Kg	0.00 Kg	5.00 Kg	0.00 Kg	0.00 %
10.00 Kg	0.00 Kg	9.98 Kg	0.02 Kg	0.20 %
15.00 Kg	0.00 Kg	15.02 Kg	0.02 Kg	0.13 %
20.00 Kg	0.00 Kg	20.08 Kg	0.08 Kg	0.40 %

Repeatability	
Mass	Error
10.00 Kg	0
10.00 Kg	0
10.00 Kg	0
10.00 Kg	0

Max Error In Kg : 0.08

Max Error In % : 0.40

Calibration Measurement Capability (CMC) :0.0002 Kg

### VERIFICATION RESULT

Repeatability :PASS  
Accuracy/Linearity :PASS

### REFERENCE INSTRUMENT USED IN CALIBRATION

The above mentioned Equipment has been calibrated & verified by the standard calibrator mention below. Calibration perform & executed as per metrological aspect.

### CALIBRATOR

Description	Serial No.	Tracking Number
1 BP10	RT 101-RT 110	2021/WS/0095
2 BP 02	RT 201-RT 202	2021/WS/0097
3 BP 05	RT 501-RT 502	2021/WS/0096

**NOTE:** - The above equipment accuracy complies with the requirement of QCS 2015, ISO/IEC 17025 specification.

The validity is subject to the equipment maintained in good condition and will be considered void if the equipment is misused, improperly erected or damages in any ways.

### FOR REAL TECHNOLOGIES

Technical Director  
MEER AREES NAZIR

Prepared By  
Bodusha Vali Allapalli Shaik

Approved By  
Hogan Kodinhi Parambil



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Tel: + 974 44436750 , Fax: +974 44413980



## CALIBRATION CERTIFICATE

Calibration No. : 50000947

Calibration Date : 14-06-2022  
Company Name : **Qatar Clay Bricks Company,**  
Addr: Doha ,Qatar QA

### EQUIPMENT DETAILS

Equipment Type	: Batching Plant	Calibration Method	: RTQ.CM.04 (Batching Plant)
Manufacturer	: MASA	Calibration Due	: 14-09-2022
Model	: MASA XL 9.2	Work Order	: 0003589/100000619
Serial No	: 201400004.2010(Cement-II)	Temperature	: 42 °C
Scale Specification	: Cement -II	Calibrated By	: Bodusha Vali Allapalli Shaik
Capacity	: 400.0 Kg	Location	: Industrial Area
Division	: 0.1 Kg	Accepted Tolerance	: ± 3 %

### RESULT OF CALIBRATION

Test Weight	Dead Load Applied	Displayed Weight	Error In(Kg)	Error In %
0.0 Kg	0.0 Kg	0.0 Kg	0.0 Kg	0.00 %
40.0 Kg	0.0 Kg	40.0 Kg	0.0 Kg	0.00 %
80.0 Kg	0.0 Kg	80.0 Kg	0.0 Kg	0.00 %
100.0 Kg	0.0 Kg	100.0 Kg	0.0 Kg	0.00 %
140.0 Kg	0.0 Kg	140.0 Kg	0.0 Kg	0.00 %
180.0 Kg	0.0 Kg	180.0 Kg	0.0 Kg	0.00 %
200.0 Kg	0.0 Kg	200.0 Kg	0.0 Kg	0.00 %
300.0 Kg	0.0 Kg	299.0 Kg	1.0 Kg	0.33 %
400.0 Kg	0.0 Kg	400.0 Kg	0.0 Kg	0.00 %

Max Error In Kg : 1.0

Max Error In % : 0.33

Repeatability	
Mass	Error
100 Kg	0
100 Kg	0
100 Kg	0
100 Kg	0

Calibration Measurement Capability (CMC) :0.0003 Kg

### VERIFICATION RESULT

Repeatability :PASS  
Accuracy/Linearity :PASS

### REFERENCE INSTRUMENT USED IN CALIBRATION

The above mentioned Equipment has been calibrated & verified by the standard calibrator mention below. Calibration perform & executed as per metrological aspect.

### CALIBRATOR

Description	Serial No.	Tracking Number
1 BP20	RT201-RT254	2021/SW/0089

**NOTE: -** The above equipment accuracy complies with the requirement of QCS 2015, ISO/IEC 17025 specification.

The validity is subject to the equipment maintained in good condition and will be considered void if the equipment is misused, improperly erected or damages in any ways.

### FOR REAL TECHNOLOGIES

Technical Director  
MEER AREEZ NAZIR

Prepared By  
Bodusha Vali Allapalli Shaik

Approved By  
Hogan Kodinhi Parambil

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**CALIBRATION DIVISION**

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## CALIBRATION CERTIFICATE

Calibration No. : 50000956

Calibration Date : 07-06-2022  
Company Name : **Qatar Clay Bricks Company,**  
Addr: Doha ,Qatar QA

### EQUIPMENT DETAILS

Equipment Type : Electronic Weighing Scale  
Manufacturer : OHAUS  
Model : Defender 2000  
Serial No : B000043JPR  
Scale Specification : Platform Scale  
Capacity : 60000 g  
Division : 1 g

Calibration Method : RTQ.CM.02 (weighing Scale)  
Calibration Due : 07-06-2023  
Work Order : 0003565/100000619  
Temperature : 23.4 °C  
Calibrated By : Bodusha Vali Allapalli Shaik  
Location : RT Lab  
Accepted Tolerance:  $\pm 0.02$  %

### RESULT OF CALIBRATION

Test Weight	Dead Load Applied	Displayed Weight	Error In(g)	Error In %
0 g	0 g	0 g	0 g	0.00 %
1 g	0 g	1 g	0 g	0.00 %
10 g	0 g	10 g	0 g	0.00 %
20 g	0 g	20 g	0 g	0.00 %
200 g	0 g	200 g	0 g	0.00 %
10000 g	0 g	10000 g	0 g	0.00 %
20000 g	0 g	20000 g	0 g	0.00 %
40000 g	0 g	40000 g	0 g	0.00 %
60000 g	0 g	60000 g	0 g	0.00 %

Max Error In g : 0

Max Error In % : 0.00

Repeatability	
Mass	Error
10000 g	0
10000 g	0
10000 g	0
10000 g	0

Calibration Measurement Capability (CMC) :0.0042 Kg

### VERIFICATION RESULT

Repeatability :PASS  
Accuracy/Linearity :PASS

### REFERENCE INSTRUMENT USED IN CALIBRATION

The above mentioned Equipment has been calibrated & verified by the standard calibrator mention below. Calibration perform & executed as per metrological aspect.

### CALIBRATOR

Description	Serial No.	Tracking Number
1 M1 20Kg	N420261-N420225	33218-21-09-0156
2 M1 10Kg	N410110-N410114	33218-21-09-0157
3 F2 1g-2Kg Weight Box	N423242	33218-21-09-0160

**NOTE: -** The above equipment accuracy complies with the requirement of QCS 2015, ISO/IEC 17025 specification.

The validity is subject to the equipment maintained in good condition and will be considered void if the equipment is misused, improperly erected or damages in any ways.

### FOR REAL TECHNOLOGIES

Technical Director  
MEER AREES NAZIR



Prepared By  
Bodusha Vali Allapalli Shaik

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Approved By  
Hogan Kodinhi Parambil

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## CALIBRATION CERTIFICATE

Calibration No. : 50000957

Calibration Date : 07-06-2022  
Company Name : **Qatar Clay Bricks Company,**  
Addr: Doha ,Qatar QA

### EQUIPMENT DETAILS

Equipment Type : Electronic Weighing Scale  
Manufacturer : OHAUS  
Model : PA4101  
Serial No : B425735776  
Scale Specification : Table Top Scale  
Capacity : 4100.0 g  
Division : 0.1 g  
Calibration Method : RTQ.CM.02 (weighing Scale)  
Calibration Due : 07-06-2023  
Work Order : 0003565/100000619  
Temperature : 23.4 °C  
Calibrated By : Bodusha Vali Allapalli Shaik  
Location : RT Lab  
Accepted Tolerance :  $\pm 0.02$  %

### RESULT OF CALIBRATION

Test Weight	Dead Load Applied	Displayed Weight	Error In(g)	Error In %
0.0 g	0.0 g	0.0 g	0.0 g	0.00 %
1.0 g	0.0 g	1.0 g	0.0 g	0.00 %
10.0 g	0.0 g	10.0 g	0.0 g	0.00 %
20.0 g	0.0 g	20.0 g	0.0 g	0.00 %
200.0 g	0.0 g	200.0 g	0.0 g	0.00 %
500.0 g	0.0 g	500.0 g	0.0 g	0.00 %
1000.0 g	0.0 g	1000.0 g	0.0 g	0.00 %
2000.0 g	0.0 g	2000.0 g	0.0 g	0.00 %
4000.0 g	0.0 g	4000.0 g	0.0 g	0.00 %

Max Error In g : 0.0

Max Error In % : 0.00

Repeatability	
Mass	Error
2000.0 g	0
2000.0 g	0
2000.0 g	0
2000.0 g	0

Calibration Measurement Capability (CMC) :0.0042 Kg

### VERIFICATION RESULT

Repeatability :PASS  
Accuracy/Linearity :PASS

### REFERENCE INSTRUMENT USED IN CALIBRATION

The above mentioned Equipment has been calibrated & verified by the standard calibrator mention below. Calibration perform & executed as per metrological aspect.

### CALIBRATOR

Description	Serial No.	Tracking Number
1 F2 1g-2Kg Weight Box	N423242	33218-21-09-0160
2 M1 2Kg	N402201-N402202	33218-21-09-0159

**NOTE: -** The above equipment accuracy complies with the requirement of QCS 2015, ISO/IEC 17025 specification.

The validity is subject to the equipment maintained in good condition and will be considered void if the equipment is misused, improperly erected or damages in any ways.

### FOR REAL TECHNOLOGIES

Technical Director  
MEER AREES NAZIR



**REALTECHNOLOGIES**  
CALIBRATION DIVISION

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Prepared By  
Bodusha Vali Allapalli Shaik

Approved By  
Hogan Kodinhi Parambil

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Tel: + 974 44436750 , Fax: +974 44413980



## CALIBRATION CERTIFICATE

Calibration No. : 50000946

Calibration Date : 04-06-2022  
Company Name : **Qatar Clay Bricks Company,**  
Addr: Doha ,Qatar QA

### EQUIPMENT DETAILS

Equipment Type : Batching Plant  
Manufacturer : MASA  
Model : MASA XL 9.2  
Serial No : 201400004.2010(Cement-I)  
Scale Specification : Cement-I  
Capacity : 1200.0 Kg  
Division : 0.1 Kg  
Calibration Method : RTQ.CM.04 (Batching Plant)  
Calibration Due : 04-09-2022  
Work Order : 0003589/100000619  
Temperature : 42 °C  
Calibrated By : Bodusha Vali Allapalli Shaik  
Location : Industrial Area  
Accepted Tolerance :  $\pm 3 \%$

### RESULT OF CALIBRATION

Test Weight	Dead Load Applied	Displayed Weight	Error In(Kg)	Error In %
0.0 Kg	0.0 Kg	0.0 Kg	0.0 Kg	0.00 %
80.0 Kg	0.0 Kg	80.0 Kg	0.0 Kg	0.00 %
100.0 Kg	0.0 Kg	100.0 Kg	0.0 Kg	0.00 %
140.0 Kg	0.0 Kg	140.0 Kg	0.0 Kg	0.00 %
180.0 Kg	0.0 Kg	180.0 Kg	0.0 Kg	0.00 %
200.0 Kg	0.0 Kg	200.0 Kg	0.0 Kg	0.00 %
240.0 Kg	0.0 Kg	240.0 Kg	0.0 Kg	0.00 %
300.0 Kg	0.0 Kg	300.0 Kg	0.0 Kg	0.00 %
340.0 Kg	0.0 Kg	339.0 Kg	1.0 Kg	0.29 %
400.0 Kg	0.0 Kg	399.0 Kg	1.0 Kg	0.25 %
500.0 Kg	0.0 Kg	499.0 Kg	1.0 Kg	0.20 %

Max Error In Kg : 1.0

Max Error In % : 0.29

Repeatability	
Mass	Error
100.0 Kg	0
100.0 Kg	0
100.0 Kg	0
100.0 Kg	0

Calibration Measurement Capability (CMC) :0.0003 Kg

### VERIFICATION RESULT

Repeatability :PASS  
Accuracy/Linearity :PASS

### REFERENCE INSTRUMENT USED IN CALIBRATION

The above mentioned Equipment has been calibrated & verified by the standard calibrator mention below. Calibration perform & executed as per metrological aspect.

### CALIBRATOR

Description	Serial No.	Tracking Number
1 BP20	RT201-RT254	2021/SW/0089

**NOTE:** - The above equipment accuracy complies with the requirement of QCS 2015, ISO/IEC 17025 specification.

The validity is subject to the equipment maintained in good condition and will be considered void if the equipment is misused, improperly erected or damages in any ways.

### FOR REAL TECHNOLOGIES

Technical Director  
MEER AREES NAZIR



Prepared By  
Bodusha Vali Allapalli Shaik

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Hogan Kodinhi Parambil

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## 12. Company Manpower

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.



شركة قطر للطابوق الأحمر (ش.م.ق.م.)  
QATAR CLAY BRICKS COMPANY (C.Q.S.C.)

## QCBC Manpower

- Factory Manager-1
- Production Manager-1
- Administrative Section-5
- Sales & Marketing Dept.-6
- QA/QC Laboratory-1
- Production Plant Operators-4
- Production Maintenance Mechanical-5
- Production Maintenance Electrical-2
- Welders-2
- Storekeeper-1
- Messenger-1
- Workshop Maintenance-8
- Dispatcher Crane Trucks Drivers-12
- Forklift Operators-9
- Strapping Machine Operator-1
- Raw Material Truck Drivers-8
- Shovel Operator-1
- Helpers-12





## 13. Previous Completed Projects

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.



شركة قطر للطابوق الأحمر (ش.م.ق.م)  
**QATAR CLAY BRICKS COMPANY (C.Q.S.C.)**  
رأس المال المدفوع 50,000,000 ريال قطري Paid up capital QR 50,000,000

Subject: Customers List

We would like to introduce our company which is a subsidiary of Qatar Industrial Manufacturing Company. Our core business is manufacturing of all size of concrete hollow block for walls & hourdi bricks for ceiling, high quality insulated block & different types & sizes of colored pavers.

All products are made from high quality of raw materials which is supplied by Qatar Sand Treatment Plant. Kindly note that we strictly do not use limestone in our product. We manufacture our products bases on Qatar Standards & Specification.

All reputed & elite construction company in Qatar are procuring from us all types of concrete blocks & Pavers. Our main client to whom we supplied as follows-

1. Ezdan Real Estate Co.  
Project location: Al Ezdan Compound, Al Wukair - Quantity supplied 6 million bricks.
2. M/S. Teyseer Contracting Co.  
Project location: Hamad Seaport -Quantity supplied Uni pavers 600,000 sq. mtrs.
3. M/S Insa Co.  
Project: Barwa Al Mawater -Quantity supplied 600,000 insulated blocks
4. M/S Insha Co.  
Project location: Barwa Al Wakra- Quantity supplied 600,000 insulated blocks
5. Construction Development Contracting Co.  
Project location: Al Thumama Petrol Station, Luisal Petrol Station, Garaffa, Messaid, Maither  
Supplied Insulated blocks, Interlock pavers & concrete hollow blocks
6. Greater Doha  
Project location: Najma Quantity supplied 100,000 concrete hollow blocks



شركة قطر للطابوق الأحمر (ش.م.ق.م)  
**QATAR CLAY BRICKS COMPANY (C.Q.S.C.)**  
رأس المال المدفوع 50,000,000 ريال قطري Paid up capital QR 50,000,000

7. International Decoration & Co.  
Project location: Villageo, Bin Hajir, Bin Mahmoud, & Garaffa –Supplied concrete hollow blocks, & interlock
8. Ibrahim Ali Trading  
Project Location: industrial Area -Quantity supplied 100,000 concrete hollow blocks.
9. Ben Trading  
Project Location: Al Wakra, Al Kheesa, Bin Hajir, & Wukair Al Sakama & Simsima  
Quantity supplied 100,000 concrete hollow blocks, hordi blocks & Insulated blocks.
10. Al Autayf Trading Contracting  
Project location: Al Mansoor, Al wakra & Ain Khalid -Quantity supplied 100,000 concrete hollow blocks & hordi blocks.
11. NASCOM  
Project Location: Industrial Area -Quantity supplied 100,000 concrete hollow blocks
12. Jaber Ali Bin Co.  
Project location Industrial Area -Quantity supplied 100,000 concrete hollow blocks.
13. Mohamed Al Shali Trading & Contracting Co.  
Project location: Al Jamaliya, Bin Hajir, & Shahaniya -Quantity supplied 100,000 concrete hollow block & interlock.
14. Al Muntada Trading & Contracting Co.  
Project location: Al Wukair & Al Kheeda Villa -Quantity supplied 50,000 concrete hollow blocks.
15. Al Radi Trading & Contracting Co.  
Project location: Bin Mahmoud -Quantity supplied 200,000 concrete hollow blocks.
16. Al Sarf Trading & Contracting Co.  
Project location: Al Thumama -Quantity supplied 100,000 concrete hollow blocks & interlock.
17. The Private Office of H.H The Father of Emir  
Project Location: Al Khor -Quantity supplied 50,000 concrete hollow blocks.

We take this opportunity & request you to approve our company in your list for supply of concrete hollow blocks, insulation blocks & interlock.

Thanking you for your support, cooperation & warm regards

Engr. Sayed A.M Sayedein  
QCBC Factory Manager



## 14. Country of Origin

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.





شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS COMPANY (C.Q.S.C.)

رأس المال المدفوع ٥٠,٠٠٠,٠٠٠ ريال قطري Paid up Capital QR 50,000,000

Date : 25.04.2020

To,

**WHOMSOEVER IT MAY CONCERN**

This is to certify that all our products Hollow Blocks, Insulated Blocks & Interlock Paving are made from high quality of raw materials which is supplied by Qatar Sand Treatment Plant. Our all products are manufactured in Qatar and follow Qatar Standard & Specification.

  
ENGR. EL SAYED A.M. SAYEDEIN  
GENERAL MANAGER

## 15. Ashghal Approval

شركة قطر للطابوق الأحمر  
QATAR CLAY BRICKS Co.



## Roads Approved Material List

### General

#### Scope

This document specifies the list of Manufacturers and Suppliers, Sub Contractors/Installers and IT'S Service Providers who are approved by the Prequalification and classification committee (PCC) to provide materials and services.

#### Related Works

Qatar Construction Specifications (QCS), 2014 or latest edition

#### Applicability

- 1. Contractors may employ any Manufacturer and Supplier, Sub Contractor/Installer, and/or any other Service Provider listed in the Approved Vendors List at the date of submission of the tender. Any approved party added subsequent to the submission of the tender may also be considered.
- 2. Where there is no category for the Manufacturer; the contractor shall submit details of the materials and Manufacturers in accordance with Qatar Construction Standard (QCS), 2014 or latest as per the PCC Check list (Refer Annex-A) and the approval shall be granted by the supervising consultant of the project (As per the procedure Approved/Issued by PCC Committee) on project-by-project basis.
- 3. Where the Manufacturer of specific materials and the service Providers are listed in this document, they shall only be obtained from one of the parties on this approved list, unless otherwise Approved PCC /Agreed by Committee.
- 4. If a Supplier/Manufacturer proposes to change the manufacturing location from the location stated in this list, or add new manufacturing facilities, the PCC Committee of Public Works Authority (PWA) shall be informed in writing by the manufacturer. The newly proposed manufacturing facility must obtain the Approval from PCC Committee prior to submission of any material submittals from this new location.
- 5. Products, materials and/or equipment referred to in this list that are proposed for use in PWA projects must be formally submitted, reviewed and approved by the Supervision Consultant under the regular materials review and approval procedure(As Approved/Agreed by PC Committee), regardless of any "Approval in principle" letter previously issued by PWA.
- 6. Vendors shall be enlisted for two years from the date of the official letter issued by PCC Committee subject to maintaining the same quality, terms and conditions of the original application, and fulfillment of the performance report required by the PCC Committee at any stage during the approval period.
- 7. Any products and/or manufactures referred to in this list must fully comply with the requirements of the latest version of Qatar Construction Speciation and any other relevant International Standards and/or any Interim Advice Notes Issued by Ashghal.
- 8. Where there are less than Three (3) Manufacturers in the Category, the contractor is not obligated to follow the category. The contractor shall obtain an alternative manufacturer and submit the details of the materials in accordance with Qatar Construction Standard (QCS) and the approval shall be granted by the supervising consultant of the project on project-by-project basis.

**Category:** Cycleways and Footways

**Material Type:** Concrete Block Pavers (Interlock) for Footways

#### Manufacturers

##### Qatar Paving Stones

###### Qatar Paving Stones

**Country:** Qatar  
**Address:** Doha – State of Qatar  
**P.O. Box:** 40611  
**Telephone:** +974 44027111 (office), 140 (accounts), 125/131 (sales)  
**Fax:** +974 44027110  
**Website:** <http://qatarpavingstones.com>  
**Email:** [qatarpavingstones@qatar.net.qa](mailto:qatarpavingstones@qatar.net.qa)  
**Expiry Date:** 15-03-2024

#### Agents

###### Qatar Paving Stones

**Address:** Doha – State of Qatar  
**P.O. Box:** 40611  
**Telephone:** +974 44027111 (office), 140 (accounts), 125/131 (sales)  
**Fax:** +974 44027110  
**Website:** <http://qatarpavingstones.com>  
**Email:** [qatarpavingstones@qatar.net.qa](mailto:qatarpavingstones@qatar.net.qa)

**Simsima Tiles, Blocks & Interlock Factory**

**P.O. Box:** 32535  
**Telephone:** +974 44950000 / +974 44592424  
**Fax:** +974 44903876  
**Website:** www.smeet.com.qa  
**Email:** blocksales@smeet.com.qa  
**Expiry Date:** 31-08-2024

**Telephone:** +974 44950000 / +974 44592424  
**Fax:** +974 44903876  
**Website:** www.smeet.com.qa  
**Email:** blocksales@smeet.com.qa

#### Aamal Cement Industries WLL

##### Aamal Cement Industries WLL

**Country:** Qatar  
**Address:** Gate 41, St. 41, Industrial Area  
Doha, Qatar  
**P.O. Box:** 40632  
**Telephone:** +974 4468 1950 / 4450 2010  
**Fax:** +974 4060 3838 / 4451 4778  
**Website:** <https://aamalcement.com>  
**Email:** info@aamalcement.com  
**Expiry Date:** 16-09-2024

##### Aamal Cement Industries WLL

**Address:** Gate 41, St. 41, Industrial Area  
Doha, Qatar  
**P.O. Box:** 40632  
**Telephone:** +974 4468 1950 / 4450 2010  
**Fax:** +974 4060 3838 / 4451 4778  
**Website:** <https://aamalcement.com>  
**Email:** info@aamalcement.com

#### ALRAYYAN Readymix Concrete & Cement Products WLL

##### ALRAYYAN Readymix Concrete & Cement Products WLL

**Country:** Qatar  
**Address:** Mesaieed Industrial Area Street  
713 Plot No.42 Doha, Qatar  
**P.O. Box:** 21058  
**Telephone:** +974 66140048  
**Fax:** +974 44451000  
**Website:**  
**Email:** hazem.aladawy@alrayyanrcp.com  
**Expiry Date:** 02-11-2024

##### ALRAYYAN Readymix Concrete & Cement Products WLL

**Address:** Mesaieed Industrial Area Street  
713 Plot No.42 Doha, Qatar  
**P.O. Box:** 21058  
**Telephone:** +974 66140048  
**Fax:** +974 44451000  
**Website:**  
**Email:** hazem.aladawy@alrayyanrcp.com

#### Qatar Clay Bricks Company

##### Qatar Clay Bricks Company

**Country:** Qatar  
**Address:** Industrial Area, Street No.52,  
Gate No. 125, Zone No. 57,  
Doha, Qatar  
**P.O. Box:** 1569  
**Telephone:** +974 4460 3487 / 4460 3157

##### Qatar Clay Bricks Company

**Address:** Industrial Area, Street No.52,  
Gate No. 125, Zone No. 57,  
Doha, Qatar  
**P.O. Box:** 1569  
**Telephone:** +974 4460 3487 / 4460 3157  
**Fax:** +974 4460 3481

**Fax:** +974 4460 3481

**Website:** [www.qcbc.com.qa](http://www.qcbc.com.qa)

**Email:** [sayed@qcbc.com.qa](mailto:sayed@qcbc.com.qa) /  
[info@qcbc.com.qa](mailto:info@qcbc.com.qa)

**Expiry Date:** 29-12-2024

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