Q-CON



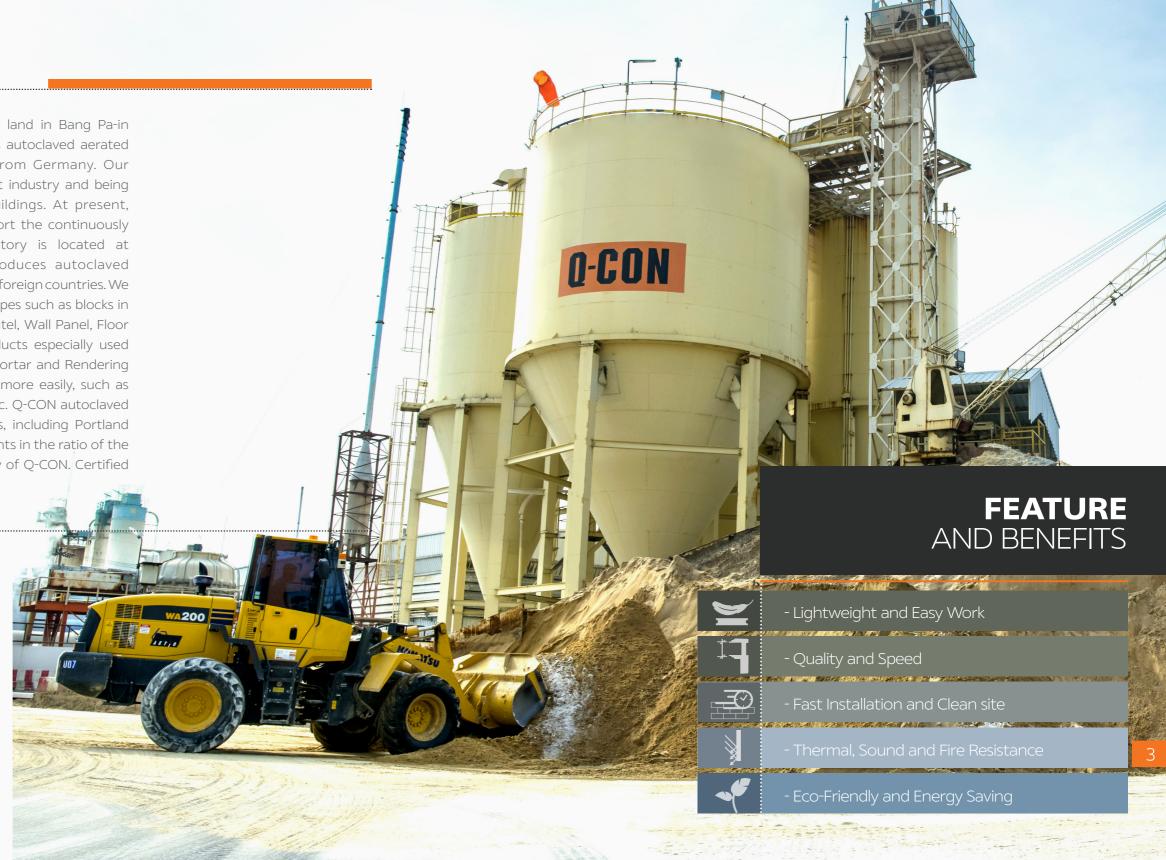
Q-CON Autoclaved Aerated Concrete an International Standard of Quality

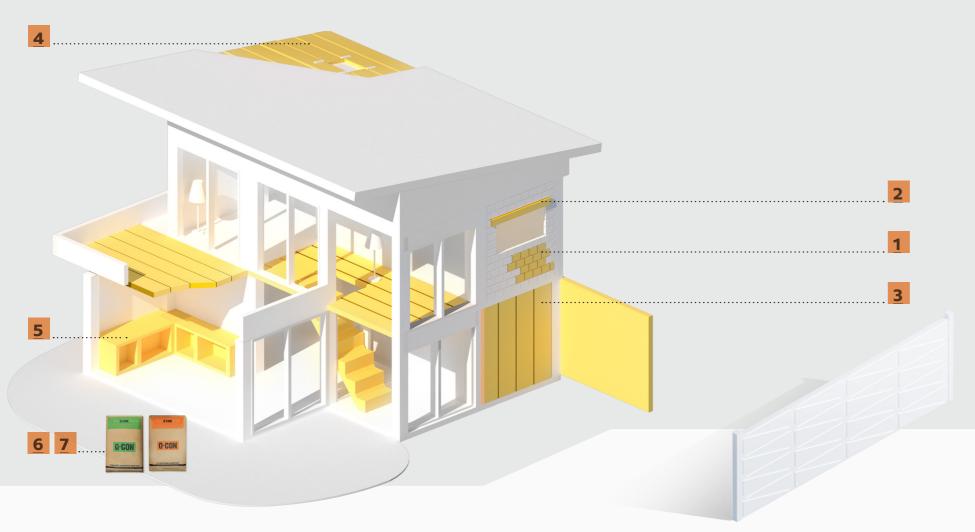
Q-CON

Q-CON Autoclaved Aerated Concrete is an International Standard of Quality

Q-CON, established in 1994, is located on 55 rai of land in Bang Pa-in Industrial Estate. Phra Nakhon Si Ayutthaya. Produces autoclaved aerated concrete with advanced production technology from Germany. Our products are recognized in the property development industry and being widely used in the construction of all types of buildings. At present, the production capacity has been expanded to support the continuously increasing product demand, the 5th Q-CON Factory is located at Nong Khae Industrial Estate Saraburi. Q-CON produces autoclaved aerated concrete for domestic sales and also exports to foreign countries. We provide a full range of products both non-reinforced types such as blocks in various sizes and steel reinforcement types such as Lintel, Wall Panel, Floor Panel and Stair. In addition, Q-CON has cement products especially used for lightweight concrete such as Thin Bed Adhesive Mortar and Rendering Mortar as well as tools and accessories to help work more easily, such as notched trowel, hammer, hand saw and metal strap etc. Q-CON autoclaved aerated concrete is made from natural raw materials, including Portland cement, sand, lime, gypsum, water and special ingredients in the ratio of the Cement Base formular, which is the unique technology of Q-CON. Certified by TIS. 1505-2541 and TIS. 1510-2541.







Q-CON PRODUCT

1 Q-CON Block

High Thermal Resistance: Wide Range of dimensions: Eco-Friendly



Shorten wall construction time : Reduce construction cost



Q-CON Counter



3 Q-CON Wall Panel

Q-CON Wall Panel with Q Network Countrywide Installer Service



Q-CON Thin Bed Adhesive Mortar

Q-CON Roof

and Roof Panel



Good adhesion: mixed with water: Ready to use **7** Q-CON Plastering Mortar



Q-CON Tools and Accessories



Use the suitable tools get quality walls

WHERE Q-CON IS USED?

- HOUSE
- MUTI-RESIDENCE
- COMMERCIAL
- FACTORY







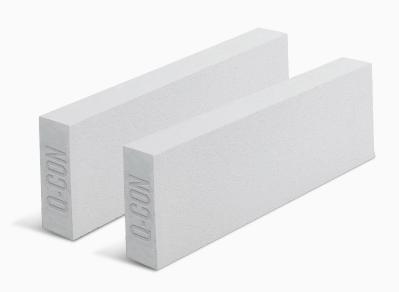
Q-CON BLOCKS

INSTALLATION GUIDE



Q-CON Blocks can be used to build interior and exterior walls as load bearing walls, and non-load bearing walls. The dimension is 20x60cm, each block. The thickness is in the range from 7.5 to 25 cm in 2.5 cm increments. To Build 1 Sq.m. of wall. You will need only 8.33 "Q-CON" blocks.

Thickness (cm.)	Width x Length (cm.)	Block/Sq.m.	Block/Pallet	Sq.m./Pallet	PC/Trailer
7.5	20 × 60	8.33	200	24	4,000
10	20 × 60	8.33	150	18	3,000
12.5	20 × 60	8.33	120	15	2,400
15	20 x 60	8.33	100	12	2,000
17.5	20 × 60	8.33	80	10	1,600
20	20 × 60	8.33	70	9	1,400
25	20 × 60	8.33	60	7	1,200





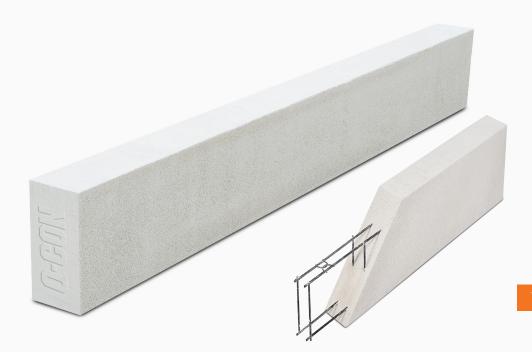
Q-CON LINTEL

Q-CON Lintel is a beam with steel reinforcement that you can use horizontally above door and window frames that will support the wall built on top of it, with out concrete stiffeners. Q-CON lintel comes in 7.5, 10, 12.5, 15, 20 cm. thickness and the lengths available are from 1.2 - 3.6 m. in 30 cm increments.

Thickness (cm.)	Width (cm.)	Length (m.)	Min.Bearing Length (cm.)
7.5	20	1.20, 1.50, 1.80, 2.10, 2.40,	40 - 280
10, 12.5, 15, 17.5, 20	20	2.70, 3.00, 3.30, 3.60	90 - 300

INSTALLATION GUIDE







Q-CON WALL PANEL

INSTALLATION GUIDE

Q-CON Wall Panel is pre-fabricated reinforced that you can use to build interior and exterior walls. The walls that are built by Q-CON Wall Panels can withstand 180 kg/Sq.m. of direct wind load. It is available with 60 cm. width, 6 m. of maximum length, and 10-20 cm. thickness in 2.5 cm. increments.



		Thickness (cm.)						
	7.5 cm.	10 cm.	12.5 cm.	15 cm.	17.5 cm.	20 cm.		
Size W x L x H (cm.)	60x300x7.5	60x400x10	60x450x12.5	60x500x15	60x600x17.5	60x600x20		
Weight (Kg/m2)	53	70	88	105	123	140		
Packaging (Pc/Pallet)	10	7	6	5	4	3		

WALL PANEL HANDBOOK





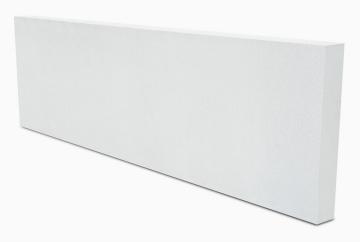


Q-CON FLOOR AND ROOF PANEL

Q-CON Floor and Roof Panel reinforced product that is used to build your floor and roof without having any support. The maximum length available is 6 m. with 60 cm. width and 10-30 cm. thickness. Live load is 150-1,000 kg/Sq.m.

Thickness (cm.)	Width (cm.) Length (m.)		Safety Truck
10, 12.5, 15, 17.5, 20, 22.5, 25, 30	60	1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0	150 - 1,000 Kg./Sq.m.

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Q-CON THIN BED ADHESIVE MORTAR

Q-CON Thin bed Adhesive Mortar is a Pre-mixed mortar that you can just mix with clean water, stir, and it will be ready to work without adding any more chemicals. A 2-3 mm. laying of thin bed adhesive mortar has high compressive strength.

Q-CON RENDERING MORTAR

Q-CON Rendering Mortar is the specials mortar for Autoclaved Aerated Concrete. It is an ultra-smooth, slick mortar that is easy to trowel. It contains additives to increase adhesion and make the mortar more hygroscopic, thus eliminating cracking.

Usage of Q-CON Thin bed Adhesive Mortar

Thickness (cm.)	Kg./Sq.m.	Sq.m./Bag
7.5	1.5	33
10	2.0	25
12.5	2.5	20
15	3.0	16
17.5	3.5	14
20	4.0	12.5

Remark: Constructed by using Q-CON notched trowel, thin-bed mortar and plastering mortar (50 kg./bag)

Usage of Q-CON Plastering Mortar

Thickness (cm.)	Kg./Sq.m.	Sq.m./Bag
5	8.9	5.6
7	12.5	4.0
10	17.8	2.8
15	26.7	1.9
20	35.7	1.4







Q-CON TOOLS AND ACCESSORIES

Using appropriate tools and equipment will be able to work easier and faster and a wall be stronger. It is able to save more cement, energy and other expenses

1 Arc Trowel

Use for spreading Q-CON thin-bed mortar to unite block together. For best performance, match size of the notched trowel with the thickness of Q-CON Block

2 Mortar Stirrer

Use with an electrical drill to mix mortar. Just 1-2 minutes

3 Rubber Mullet

Use for adjusting level and alignment of blocks without damaging them.

4 Hand Saw

Use for cutting blocks into desire size

5 Leveling Plane (Rasp)

Use for smoothing of rough surfaces and block leveling

6 Metal Strap

Use for control joints or to connect Q-CON block to columns



- 7 Steel Angle 7.5x7.5x30 cm.
- 8 AAC Plug

Specially designed for use with Q-CON AAC Blocks

- 9 Steel Plug
- 10 Wedge
- 11 Chalk Line
- 12 Sand Paper #400 #200
- 13 Circular Saw
- 14 Trolley





QUALIFICATIONS OF Q-CON PRODUCT

Physical Product CHARACTERISTICS



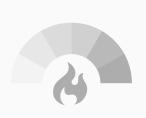
			Block			Thin bed	Plastering
Characteristics	Unit	G2/0.5	G4/0.6	G4/0.7	Lintel / Wall Panel	Adhesive Mortar	Mortar
Normal Dry Density	Kg/m³	410 - 500	510- 600	610 - 700	600	=	-
Working Density	Kg/m³	533 - 650	663 - 80	793 - 910	780	=	-
Compressive Strength	Kg/cm²	≥ 20	≥40	≥ 40	≥ 35	> 100	35 - 50
Modulus of Rupture	Kg/cm²	4.4	8.0	8.0	-	-	-
Ultimate Tensile Strength	Kg/cm²	4.4	4.4	4.4	-	-	-
Modulus of Elasticity , E	Kg/cm²	15,000	17,500	17,500	21,900	-	-
Water Absorption	Kg/cm²	≤500	≤500	≤500	-	≥ 0.5	≥ 0.5

Thermal PERFORMANCE



Dun du nt	Thermal Conductivity,K (W/m.k)	Thickness	Thermal Resistivity, R (m ² .K/W)		
Product		(cm.)	K = 0.089	K = 0.098	
		7.5	0.84	0.77	
		10	1.12	1.02	
Blocks	G2 : 0.089 G4 : 0.098	12.5	1.40	1.28	
		15	1.69	1.53	
		20	2.25	2.04	
	0.16	7.5	0.47		
Lintel Wall Panel		10	0.63		
Floor Panel		12.5	0.78		
		15	0.94		
		20	1.25		

Fire RATING



Duradicat	Thickness (cm.)						
Product	7.5	10	12.5	15	17.5	20	
Blocks							
- Non load Bearing wall	4	4	4	4	4	4	
- Load Bearing wall	-	2	2	2	2	2	
Wall Panel							
- Non load Bearing wall	-	4	4	4	4	4	

Acoustic PERFORMANCE



Block Thickness (cm.)	Finishing	STC Ratings
10	Non-Rendering	38
10	Rendering 1 cm.	43
15	Non-Rendering	43
	Rendering 1 cm.	46
20	Non-Rendering	48
20	Rendering 1 cm.	50

GUARANTEED FROM WELL-KNOWN INSTITUTES

"Q-CON" Autoclaved Aerated Concrete meets the industrial standard from the Thai Industrial Standard Institute.

- TIS 1505-2541 : Autoclaved Aerated Concrete Elements.
- TIS 1510-2541 : Autoclaved Aerated Reinforced Lightweight Concrete Panels
- BS 5234: Part2: Partitions (Including matching linings) Part 2. Specification for performance requirements for strength and robustness including method of test (Severe duty)
 - Energy Saving Label
 - Green Industry Level 4
 - Eco Factory
 - Green Star Award
 - Carbon Reduction Label
 - Green Label
 - Made in Thailand Certificate
 - SCG Green Choice

And it meets worldwide industrial standard such as;

- DIN 4163 : Autoclaved Aerated Concrete Blocks & Flat Elements
- DIN 4223 : Stem Cured Reinforced Roof and Floor Panel out of Gas and Foamed Concrete.
- JIS A 5416-1995 : Autoclaved Lightweight Aerated Concrete Panels.



CAUTION

Health & safety Information on any known health risks of our products and how to handle them safely is on product packaging and/ or the accompanying documentation. Additional information is listed in the Material Safety Data Sheet (MSDS). To obtain a copy of a MSDS, download from www.qcon.co.th. Contractors are required by law to perform their own risk assessments before undertaking work.

















HOUSING

PACKAGE STANDARD & TRANSPORTATION

















Cozii Pracha Uthiz Village

Homeowner Built Tak

Jakpaisarn Village

Modular House

Tassanee Village

LOW RISE





The Cube Pracha Uthit Condo

B2 Hat Yai Hotel



Beach Front Lawai Condo



Beach Point Patong



Chada at Nakron Hotel



Happy Condo Donmueang



Heritage Patong Hotel

HILIGHT

REFERENCE

PROJECTS



The Diamond Nawa Nakhon Taladthai Condo



The Cube Chaengwattana Condo



Ramada Phuket Hotel



The Empire Hotel



The Excel Groove Condo







The Win Condo



Water Park Khao Lak Hotel



Miami Bang-pu

HIGH RISE



J Condo



Landmark Waterfront Hotel The Tree Sukhumvit 71 The Room Charoen Krung 30





OTHER PROJECTS









Nopakao homemart Warehouse

Ratdawan Market

Singha water factory

Terminal 21 Korat

Siam Paragon





Contact Us

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www.qcon.co.th

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