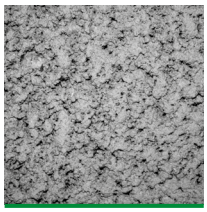
QUINN QUARRIES

DENSE AGGREGATE CONCRETE BLOCKS - HOLLOW

Quinn Building Products manufacture quality hollow dense concrete blocks for the construction industry. Using our own high quality aggregates conforming to BS EN 12620 – Aggregates for concrete, the blocks are a cost effective and durable product suitable for a wide range of applications including agricultural and commercial uses. The blocks are produced at our manufacturing facility in Derrylin, Co. Fermanagh, Northern Ireland and are Category 1 masonry units in accordance with BS EN 771-3 – Specification for aggregate concrete masonry units.

Finish / Texture



Standard

Applications

- Walls - Rendered

Product Type

- Regular shaped hollow masonry unit
- Category 1 masonry unit in accordance with EN 771-3

Certifications

- EC certificate of Factory Production Control – 0086-CPD-597548

Memberships

- British Precast

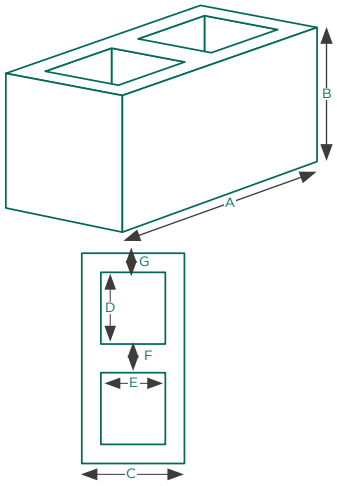
Physical Properties

Face Size	440 x 215 mm
Dimensional Tolerance	D1
Gross Dry Density	1250 Kg/m^3
Net Dry Density	1800-2000Kg/^{3}
Mean Compressive Strength	7.5 mm^2
Manufacturing Category	1
Thermal Resistance	0.21m^{2}K/W
Moisture Movement	<0.6mm/m
Fire Resistance	Class A1
Configuration	Group 2 - Hollow

Configuration

Quinn Cavity blocks are classed as Group 2 in accordance with BS EN 771-3

Dimension	Length (mm)
A	440
B	215
C	215
D	150
E	135
F	60
G	40



Fire Resistance

Quinn Concrete blocks provide excellent fire protection in both load bearing and non load bearing applications. They are classed as non combustible and have a Class 0 resistance to surface spread of flame and category A1 in accordance with BS EN 13501-1. Block thicknesses required for fire resistance periods are shown in the table below.

Wall Finish	Non-load bearing single leaf wall	Load bearing single leaf wall
No Finish	6 hrs	2 hrs
Sand and Cement	6 hrs	-
VG (Vermiculite Gypsum)	6 hrs	-

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Packaging

Block Thickness (mm) Note 1	Thermal Resistance (m2K/W)	No. blocks per pack/bale Note 1	Wall area per pack (m2) Note 2	Approx. block weight dry (Kg)	Approx. wt. of wall per m2 (Kg)
215	0.21	40	4.05	25	260

NOTES

Note 1: Wall area allows for 10mm conventional mortar joints

Delivery and Site Handling

Blocks may be delivered in a number of ways to suit customer requirements. Bales will be banded in green strapping but may also be palletised, shrink wrapped etc, for offloading by lorry mounted crane or by fork lift. Off-loaded units should be stacked carefully on a prepared, clean, level, firm area to minimise or prevent damage occurring. Good site planning for deliveries will reduce the or avoid double handling. Blocks should be protected from adverse weather conditions and health and safety regulations should be adhered to at all times when handling blocks.

Blocks should not be laid when the temperature is at or below 3°C and falling or unless it is least 1°C and rising.

Mortars

The type of mortar required will depend upon the application taking into consideration structural requirements, position in the building and exposure. Designation iii mortars are suitable for most applications. Mix proportions for both designation ii and iii are shown below. Always ensure that the surface of the block is clean from dirt and debris before applying a mortar layer.

	Designation	Recommended Mix Proportions	
Above DPC	iii	1 :1 : 5 to 6	Cement : Lime : Sand
		1 : 5 to 6	Cement : Sand
Below DPC	ii	1 : 0.5 : 4 to 4.5	Cement : Lime : Sand
		1 : 3 to 4	Cement : Sand

Below Ground Level

The blocks are suitable for use in soil conditions up to and including sulphate class DS-3 as defined in BRE Special Digest 1.Where unusual soil conditions exist, expert advice should be obtained.