

SOLOCRETE DENSE CONCRETE BLOCKS

Dense aggregate blocks are manufactured from a blend of aggregates and Portland Cement. These blocks can be used in virtually any part of the project above or below ground. Their performance criteria make them especially applicable where high strengths and good sound insulating qualities are required and where long-term durability under the most onerous conditions is required.

TEXTURE AND COLOUR

Solocrete blocks have a coarse texture suitable for accepting plaster and are not intended to be left fair or painted. They are functional blocks, which are intended to accept a secondary finish. The generally grey colour may be variable in line with the consistency expected from naturally occurring materials. Paint grade blocks, which are intended to accept direct decoration, may be available from certain works and in certain sizes.

The 140mm dense cellular Multi-cored block is designed to offer 7N/mm² strength with a weight of less than 20kg and a thermal resistance similar to a 140mm solid lightweight block.

BRITISH STANDARD

Solocrete blocks are manufactured to BS6073:Part 1.

FORM

Produced in either solid, cellular or hollow forms.

TECHNICAL PERFORMANCE

Work Size (mm)	Thickness (mm)	Form	Thermal Resistance (m ² K/W)		Dry Block Weight (kg approx.)	Weight Laid (kg/m ²)	Sound Reduction (dB)	Compressive Strength (N/mm ²)
			Internal	External				
440 x 215	75	Solid	0.056	0.052	14.0	150	42	7.0
440 x 215	100	Solid	0.075	0.070	18.8	180	44	7.0
440 x 215	100	Cellular	0.098	0.091	16.0	203	43	3.5
440 x 215	140	Solid	0.105	0.098	27.0	290	48	7.0
440 x 215	140	Hollow	0.163	0.154	19.0	210	45	3.5
440 x 215	140	Multi Cellular	0.245	0.235	19.5	215	45	7.0
440 x 215	215	Hollow	0.210	0.200	27.0	290	48	3.5

Other strengths, up to 10.5N/mm² on solids, may be available upon request

CONCRETE DENSITY

2000±50kg/m³ @ 3% m/c.

DRYING SHRINKAGE

<0.06%

SOUND REDUCTION

Figures declared relate to a single leaf plastered wall.

FIRE RESISTANCE

Made with Class 1 aggregates (limestone).

THERMAL CONDUCTIVITY

1.33 W/mK@ 3% m/c.
1.43 W/mK@ 5% m/c.

PACKAGING

Units are banded and packaged in cubes to minimise damage in transit. Contact the local Sales Office for details (see below).

APPLICATIONS AND BENEFITS

- Interior load-bearing walls
- Separating and partition walls
- Texture assists adhesion, making them ideal for plastering
- Durability of standard blocks allows use below dpc in both leaves in normal and sulphate solid conditions equivalent to Class 1.
- Generally an all-purpose utility block
- Suitable as infill blocks for beam and block flooring systems

To complement the range, dense coursing brick units (20N/mm² strength) in both 100 and 140mm widths are available. These can be used in conjunction with the full range of block sizes to aid coursing and minimise cutting on site.

QUANTITY

Blocks are sold on the basis of 10 No. per m² built.

AVAILABILITY

Blocks are currently produced at our Westby, Blackpool works and our Ammanford works in west Wales. Full details of prices and availability can be obtained from the relevant sales office given below.

Note that **not** all sizes are available from every works.



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