

DATASHEET

Dense Block

V3/26-09-2018



This high quality, robust and load bearing standard concrete block is used in majority of applications and is suitable for use above and below DPC level.

All products are 100% recyclable and where appropriate recycled graded aggregates are combined with locally sourced primary aggregates. All are manufactured in accordance with BS EN 771-3, ISO 9001 quality management & ISO14001 environmental management. Bekstone has been awarded BREEAM A* environmental profiling.


Dimensional tolerances:

Length	440mm
Width	100mm & 140mm
Height	215mm
Weight	18.8kg (100mm) & 26.6kg(140mm)
Tolerance	D1
Dry density	1960 kg/m ³
Shape & features	Standard finish
Group according EN 1996-1-1 (EC6)	Group 1 (solid)

Mean unit strength:

Mean normalised strength	7.3 - 10.4N/mm ²
Direction of load	Perpendicular to bed faces
Unit category	Cat II
Dimensional stability	<0.6mm/m

Bond strength:

Shear bond	0.15N/mm ² (tabulated value)
Flexural bond	NPD

Reaction to fire:

Classification to EN 13501-1	A1
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Water vapour diffusion coefficient:

Water absorption	NPD
Water vapour permeability	5/15mm ² (tabulated value)

Thermal conductivity (W/mK):

Thermal conductivity	1.00 W/(m.k)
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Sound:

Airborne sound insulation	Group 1 (solid)
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Durability:

Frost resistant above 7.2N

Dangerous substances:

NPD

CONCRETE BLOCK RANGE


Hollow Paint Grade Dense Medium Dense Foundation Lightweight Course Adjusting Bricks

Concrete Block Range

Pack Sizes

Our concrete blocks & bricks contain recycled & natural aggregates that vary slightly in colour from time to time. We therefore cannot guarantee that manufactured products from different production batches will always have identical colouration. Therefore we advise that when using several packs of blocks on exposed blockwork, that the product is drawn randomly from all of the packs used to achieve an overall well blended appearance

Size (mm)	Type	Type	No. per pack	m ² per pack	Units/m ²	Unit weight (kg's)
440 x 215 x 215	Hollow block	Standard Dense	40	4	10	26
300 x 350 x 100	Foundation block	Medium Dense	81	n/a	n/a	15.3
215 x 65 x 100	Solid brick	Standard Dense	448	8	56	3
215 x 65 x 100	Solid brick	Medium Dense	448	8	56	2.8
440 x 215 x 100	Solid block	Standard Dense	72	7.2	10	18.8
440 x 215 x 100	Solid block	Medium Dense	90	9	10	13.8
440 x 215 x 100	Solid block	Lightweight	90	9	10	11
440 x 215 x 100	Solid block	Paintgrade	72	7.2	10	19.8
440 x 215 x 140	Solid block	Standard Dense	48	4.8	10	26.6
440 x 215 x 140	Solid block	Medium Dense	60	9	10	14.5
440 x 215 x 140	Solid block	Lightweight	60	9	10	12.6
440 x 215 x 140	Solid block	Paintgrade	48	4.8	10	27.4

Face Finishes



Standard Dense

An open face texture finish, ideal for keying in of render and other finishes.



Medium Dense

An open face texture finish, ideal for keying in of render and other finishes.



Paintgrade

A closed face texture finish, ideal for exposed or painted block work.

Technical Data

Composition

All products are manufactured from accurately control proportions of aggregate, sand & OPC cement. The products are manufactured from recycled and natural materials and may be subject to slight variations. It is therefore recommended that users work from 3-4 packs to achieve optimum colour blending.

Weathering

Many factors influence weathering characteristics, such as location, degree of exposure prevailing weather conditions and design. Bekstone blocks will weather in a similar manner to natural stone. Bekstone will not be held responsible for the apparent colour fading or any other effect on the appearance of the stone due to efflorescence. This is a temporary phenomenon characteristic of all high cement content products which will reduce over time.

Water Absorption

As with all facing masonry (reconstituted stone, bricks and natural stone) the external envelope is not totally impervious to heavy driving rain as there is the possibility that water penetration will take place through mortar joints. To avoid this, good building and site practice should be observed. Tests carried out

gave a mean average of less than 10% absorption by weight after 24 hours.

Movement Joints

Consideration must be given to the inclusion of movement joints. These should be installed wherever there are changes in height, wall thickness and not greater than 6 metre centres of continuous walling. Bed reinforcement should be included above and below openings extending at least 600mm either side of the opening.

Mortars

We strongly recommend the use of mortars containing lime because their lower permeability gives greater resistance to rain penetration.
Cement : Lime : Sand = 1:1:6
Masonry Cement : Sand = 1:4
Plasticised Cement : Sand = 1:5-6

Packaging

All products have every layer strapped and interlocked allowing for optimum pack safety & integrity. To assist movement via forklift, non-returnable wooden delivery pallets are available upon request. For safety on uneven ground, packs should not be stacked greater than 2 high.



In keeping with our policy of continual product development, Bekstone reserves the right to alter any specification shown. All products are made from naturally occurring materials and as such, colours depicted are as accurate as photographic and printing process allow. All content is for guidance only with weights and measures being approximates. All recommendations and suggestions made do not constitute a guarantee.