

## Dense Concrete Common Bricks

Date Created: 01/02/21



**Dense Common Bricks** are designed to be used for all types of construction above and below damp proof course level, independently or in conjunction with dense aggregate blocks.

The aggregates used in the manufacturing process provide density, strength and thermal conductivity values, which are compatible with the majority of dense concrete blocks.

In addition to their ability to withstand repeated cycles of attack from rain and frost, good quality dense concrete bricks age hardens, and throughout independently controlled laboratory experiments, the bricks passed the most rigorous freeze-thaw tests designed to establish the durability classification for masonry.

Colour and finish may vary depending on the supplying works. Colour and texture cannot be guaranteed.

The bricks, which may be solid or frogged, are manufactured and tested in accordance with BS EN 771-3: 2011; Specification for Masonry Units: Aggregate Concrete Masonry Units.

As stated in this Standard they can be defined as: Common masonry units normally intended for use with no faces left visible.

Suitable for applications such as:

- To adjust course heights in blockwork.
- Used above & below dpc.
- In conjunction with block.

### DESCRIPTION

CE Marking/DOP	<a href="http://www.marshalls.co.uk/DOP">www.marshalls.co.uk/DOP</a>
NBS Specification	F10/345

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## PHYSICAL PROPERTIES

Work Dimensions (mm)	215 x 100 x 65 215 x 100 x 73
Durability (Freeze-thaw)	Based on Table 15 of PD 6697:2010 common bricks are classed as frost resistant and suitable for use below or near external ground level with a high risk of saturation and freezing
Thermal Conductivity (K value)	1.24 W/mK @ 3% 1.33 W/mK @ 5%
Compressive Strength (MPa)	>22.5N/mm <sup>2</sup> mean, air dry
Water Vapour Permeability	5/15 $\mu$ (Tabulated from EN 1745)
Shear Bond Strength	0.15N/mm <sup>2</sup> (Tabulated from EN 998-2: 2003, Annex C)
Dimensional Stability	<0.6mm/m

## SPECIFICATION

Selection Of Mortar	It is recommended that the guidelines provided in BS EN 1996 - Design of Masonry Structures & BTB 4 is taken into account before a final choice is made
Emission of Asbestos	No content
Reaction to fire	Euroclass A1
Dangerous Substances	No performance declared
Movement Joints	Spacing and width should be based on the guidelines provided in BS EN 1996 - Design of Masonry Structures
Moisture Movement	<0.45mm/m

## APPLICATION

Suitability	Can be used above and below ground upto sulphate condistion DS2. Typically for walls not requiring an aesthetic finish in appearance or walls requiring a secondary finish such as plaster render or paint.
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## SITE WORKS

Installation	Refer to BTB 1
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## SUPPLY

Packaging	Self contained packs banded to non returnable pallets or void packed, banded or shrinkwrapped and banded to non returnable pallet dependent on supply works
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## FURTHER INFORMATION

Cleaning & Maintenance	Cleaning & maintenance details are available on request
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Efflorescence	Any product containing cement during its early life may exhibit a temporary white discolouration known as efflorescence. This is not a product fault and will gradually disappear with exposure to natural weathering and trafficking. Our manufacturing process involve the incorporation of advanced additives both within and on the surface of the brick. The amount of efflorescence emanating from the bricks can thus be classed as minimal
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Weathering	It should be appreciated that with all products weathering and site conditions can cause shade variation to appear across the surface of individual units. This does not in any way affect the performance of the units and any such variation will diminish over a period of time as the product matures
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Product Evolution	The evolution of new product design is continuous and information is subject to change without notice. Customers should check with the supplier to ensure that they have the latest details Product Evolution Marshalls Edenhall reserve the right to amend the technical information as deemed necessary and in accordance with the relevant national and international standards without notice
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