

Dense and Lightweight Coursing Bricks

Date Created: 01/02/21



Marshalls **coursing bricks** are designed to be used in all types of construction in conjunction with dense aggregate or lightweight aggregate blocks, both of which are available in standard bed widths of 100mm and 140mm. "They are also available as 40mm high slips for use in building up courses in beam and block floors".

The 140mm width units are particularly suitable for use in the inner leaf of three storey buildings and party walls (Ref, Parts A and E of the Building Regulations) in addition to the requirements of BS 8103, 'Structural Design of Low Rise Buildings'.

For lightweight bricks the specially selected aggregates used in the manufacturing process provide **density, strength and thermal conductivity values** which are comparable with the majority of lightweight aggregate blocks with a density range of 1000 - 1500kg/m³.*

Suitable for applications such as:

- Padstones on top of hollow blocks.
- Used above & below dpc.
- Makes up courses in blockwork.
- Reveals, jambs and window heads.
- Kicker units to bring blockwork to wall height.

DESCRIPTION

CE Marking/DOP	www.marshalls.co.uk/DOP
NBS Specification	F10/345

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PHYSICAL PROPERTIES

Work Dimensions (mm)	215 x 140 x 65 215 x 100 x 65
Durability (Freeze-thaw)	Based on tabulated values from BS 5628-3 and PD 6697 dense coursing bricks are classed as frost resistant. Lightweight bricks should only be used on internal walls and the inner leaves of cavity walls above dpc level where there is no risk of freezing
Thermal Conductivity (K value)	Protected: 1.24 W/mK Exposed: 1.33 W/mK
Compressive Strength (MPa)	Average 22.5N/mm2 mean
Water Vapour Permeability	5/15 μ (Tabulated from EN 1745)
Shear Bond Strength	0.15N/mm2 (Tabulated from EN 998-2: 2003, Annex C)
Dimensional Stability	Dense <0.6mm/m Lightweight <0.9mm/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	To eliminate cutting on site, for making up courses in blockwork, as reveals, jambs and window heads
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SITE WORKS

Installation	Refer to BTB 1
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SUPPLY

Packaging	Self contained packs shrinkwrapped and banded to non-returnable pallets
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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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