

BRICK TECHNICAL DATA SHEET BTDS 4
DENSE CONCRETE COMMON BRICKS

Edenhall's Dense Common Bricks are designed to be used for all types of construction above and below dpc level, independently or in conjunction with dense aggregate blocks.

The specially selected dense 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 harden, and throughout independently controlled laboratory experiments, the bricks passed the most rigorous freeze-thaw tests designed to establish the durability classification for masonry.

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.

APPEARANCE:	Greyish colour with variable texture. The colour may vary depending on the supplying works. No guarantee can be given in respect of colour or texture consistency.						
DIMENSIONS:	215mm x 100mm x 65mm 215mm x 100mm x 73mm - made to special order by certain works						
TOLERANCES:	Category D1 (+3-5mm in all directions)						
CONFIGURATION:	Solid or Frogged depending on the manufacturing works.*						
COMPOSITION:	Dense Aggregates and Portland Cements						
DRY DENSITY:	Average 2200 kg/m ³						
DRY WEIGHT:	2.85 – 3.2kg approximately for 65mm size						
COMPRESSIVE STRENGTH:	>22N/mm ² mean. Air dry. Available in strengths up to 35N/mm ² .						
THERMAL CONDUCTIVITY:	<table><thead><tr><th>Protected</th><th>Exposed</th></tr></thead><tbody><tr><td>1.59 W/mK</td><td>1.70 W/mK</td></tr><tr><td colspan="2">(As CIBSE Guide A, Table 3.1)</td></tr></tbody></table>	Protected	Exposed	1.59 W/mK	1.70 W/mK	(As CIBSE Guide A, Table 3.1)	
Protected	Exposed						
1.59 W/mK	1.70 W/mK						
(As CIBSE Guide A, Table 3.1)							
DURABILITY:	Based on tabulated values from BS 5628-3, Table 12, common bricks are classed as frost resistant.						
WATER ABSORPTION BY CAPILLARITY:	<150g/m ² /s ^{0.5}						
MOISTURE MOVEMENT:	<0.45mm/m						
WATER VAPOUR PERMEABILITY:	5/15μ (Tabulated from EN 1745)						
REACTION TO FIRE:	Euroclass A1						
SHEAR BOND STRENGTH:	0.15N/mm ² (Tabulated from EN 998-2: 2003, Annex C)						
BUILT WALL WEIGHT:	225kg/m ² (Unplastered Single Leaf Wall)						
GREEN GUIDE RATING:	A+						
PRESENTATION:	Self contained packs, shrinkwrapped in most instances to non-returnable pallets, or void packed and shrinkwrapped, depending on supplying works.*						

**As many of these products are made to order for specific markets, please obtain further details on specification details, product availability, pack sizes and weights from your local Edenhall Sales Office, or alternatively call our Head Office.*

Head Office:

PD Edenhall Ltd, Danygraig Road, Risca, Newport, NP11 6DP. **Tel:** 01633 612671 **Fax:** 01633 601280