

## Product Data Sheet

## TARMAC FOUNDATION BLOCKS

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#### New Tarmac Foundation aircrete blocks to support wider cavity walls

In response to increasing standards of energy efficiency, new Tarmac Foundation aircrete blocks have been added to the range to support wider cavity walls above ground. The Foundation blocks measure 350mm x 310mm x 215mm.

Key benefits include:

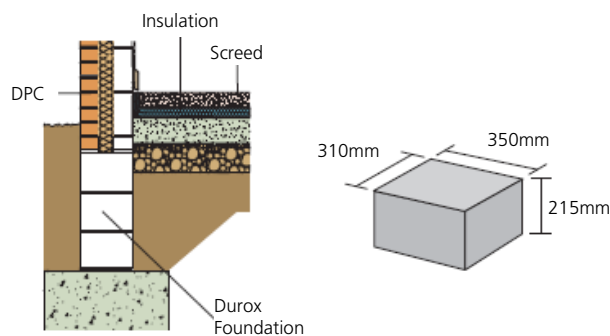
- Save time and money – no wall ties or concrete cavity fill, speedy construction, no risk of collapsed cavities
- Support of wider cavity walls above ground up to 350mm width in response to increasing standards of energy efficiency
- Available in compressive strengths of 3.6N & 7.3N to satisfy requirements for low and high rise buildings
- Meets manual handling guidelines for the repetitive lifting of masonry units
- Coursing height of 215mm maintained aiding work in stepped foundations

#### Application

Tarmac Foundation aircrete blocks 350mm x 310mm x 215mm can be used to support cavity, solid or frame construction. Product can be laid in either direction to create wall thicknesses of 310mm or 350mm.

Because of its excellent insulating properties, the product contributes towards the perimeter insulation of ground floors.

Foundation (3.6N/mm<sup>2</sup>) is suitable for use in Class DS-1 and DS-2 sulfate soil conditions and Foundation (7.3N/mm<sup>2</sup>) is suitable for use in Class DS-1 to DS-3 sulfate soil conditions.



Tarmac Foundation blocks below DPC.

#### Authority

Tarmac Foundation aircrete blocks conform to BS EN 771-4 and are manufactured under a Quality System complying with ISO 9001.



#### Technical Properties

	Foundation 3.6N/mm <sup>2</sup>	Foundation 7.3N/mm <sup>2</sup>
Size (mm)	350 x 310 x 215	350 x 310 x 215
Material dry density (kg/m <sup>3</sup> )	460	680
Thermal conductivity @ 3% moisture content (W/mK)	0.11	0.19

#### Unit and Laid Weights

	310mm wall	350mm wall
Foundation 3.6N/mm <sup>2</sup>		
Unit weight (kg)	11.1	11.1
Laid weight (kg/m <sup>2</sup> )	177	200
Foundation 7.3N/mm <sup>2</sup>		
Unit weight (kg)	16.4	16.4
Laid weight (kg/m <sup>2</sup> )	242	273

Unit and laid weights are given for design purposes and are approximate and calculated based on the specified dry density with a moisture content of 3% added to provide equilibrium weights. Delivered block weights will be approximately 22% higher.

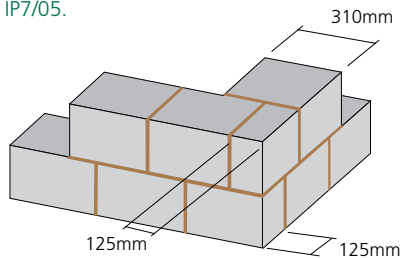
## Design

The design of loadbearing walls should be in accordance with Approved Document A of the Building Regulations or in accordance with BS 5628-1.

## Installation

Tarmac Foundation blocks should be installed in accordance with BS 5628-3. The manufacturing process may result in some partial bonding of blocks in the pack. Where this occurs blocks can easily be separated using for example, a rubber mallet. The blockwork should be set out to achieve adequate corner bonding. A typical example corner bonding detail is shown below.

For below ground constructions (excluding work in retaining or basement walls) Foundation blocks can be used with unfilled vertical joints, provided the blocks are built with their ends closely butted together to hinder the passage of vermin. This guidance is consistent with the advice given in BRE Information Paper IP7/05.



Corner bonding of Tarmac Foundation wall 310mm width

Tarmac supply blocks nationally. To make contact with our sales organisation could not be easier!

### National Sales Helpline

Call us on: 0845 606 2468

### Technical Helpline

Call us on: 0870 242 1489

E-mail: [technical.services@tarmac.co.uk](mailto:technical.services@tarmac.co.uk)

The product brochures available include:

Durox - aircrete blocks

Durox System - thin joint blocks

Toplite - aircrete blocks

Hemelite & Topcrete - lightweight & dense aggregate blocks

## Mortar

Mortar designations (ii) or (iii) can be used below DPC level depending on the risk of saturation / freezing.

Mortar designation	Type of mortar	Proportion by volume
(ii)	Cement : lime : sand Cement : sand with plasticiser	1 : ½ : 4 1 : 4
(iii)	Cement : lime : sand Cement : sand with plasticiser	1 : 1 : 6 1 : 6

## Quantities

Tarmac foundation blocks are sold in packs of 80 blocks. The following number of blocks are required per m<sup>2</sup> of wall.

	310mm wall	350mm wall
No. blocks required	12.3	13.9

The number of blocks has been calculated assuming 10mm width bed and mortar joints.

## Packaging and Delivery

Foundation blocks are supplied as shrink-wrapped site packs containing 80 blocks in the pack. Each site pack measures 1400 (L) x 1075 (W) x 620 (H). Packs should be off loaded and stored on firm, level ground.

## Tarmac Topblock Limited

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### Literature requests:

Call us on 08456 044 114

## Further Information:

Please call the Technical Centre on: 0870 242 1489.

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**Tarmac** 