



AIRTEC LARGE FLOOR

Large Format Airtec Aerated Floor Blocks

Airtec Large Floor are suitable for use in beam & block floors to provide improved thermal insulation and quick, safe and easy installation. Weighing as little as 16.5kg they can be laid in a 620mm or 430mm width, offering a choice of reinforced T-beam centre spacings of 705mm and 515mm respectively.

These blocks are also suitable for use in walls - please refer to our Airtec Large Wall Block datasheet.

All Airtec blocks are manufactured from high quality materials, consisting of up to 90% recycled raw material and are suitable for use above and below damp-proof course.

Airtec blocks are manufactured to BS EN 771-4 category I manufacturing, BBA certified and are ISO 9001 Quality Assured, ISO 14001 Environmentally Certified and hold BES 6001 'Excellent' Responsible Sourcing.

TECHNICAL PROPERTIES

Property	Airtec Standard 3.6N	Airtec Seven 7.3N			
Size L x W x H (BS EN 771-4):	620mm x 100mm x 430mm				
Dimensional Tolerance (BS EN 772-16):	TLMB				
Gross Dry Density (BS EN 772-13):	530 (±50) kg/m³	730 (±50) kg/m³			
Mean Compressive Strength (BS EN 772-1):	3.6 N/mm²	7.3 N/mm²			
Manufacturing Category (BS EN 771-4):	Category I				
Thermal Conductivity (BS EN 1745):	0.11 W/mK [protected] 0.13 W/mK [exposed]	0.17 W/mK [protected] 0.19 W/mK [exposed]			
Moisture Movement (BS EN 771-4):	0.40 mm/m				
Fire Resistance (BS EN 13501-1):	Class A1 reaction to fire				
Configuration (BS EN 1996-1-1):	Solid - Group 1				
Available Texture, Finish:	Standard				



APPLICATIONS

- Infill for beam & block floors in either orientation.
- > 3.5kN transverse strength tested.
- Low weight 430mm high and 620mm long meaning faster, safer block laying.
- Suitable for use in walls above dpc see our Airtec Large Wall datasheet and website for further details.

PHYSICAL PROPERTIES & PACK DETAILS

Block Type	Blocks per pack	Block Weight kg	m² per pack	Weight per Pack kg	Blocks per m²
Standard 3.6N	28	16.5	7.47	564	3.61
Seven 7.3N	28	21.8	7.47	660	3.61

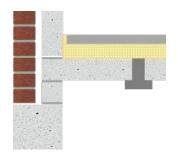
The m² per pack figure DOES NOT include allowance for the mortar joint - this figure is for the block only.

 $The \ block \ weights \ quoted \ above \ are \ approximate \ and \ include \ the \ typical \ additional \ weight \ from \ the \ moisture \ content.$

Example u-values

The table below shows the thickness (mm) required to achieve target u-values at a range of perimeter / area (P/A) ratios using the following construction:

- 150mm T-beam
- 100mm thick block infill. 3.6N or 7.3N
- 620mm or 430mm laid width
- Insulation slabs
- Standard Screed, 65mm



	0.22 W/m²K				0.20 W/m²K					
P/A Ratio :	0.70	0.60	0.50	0.40	0.30	0.70	0.60	0.50	0.40	0.30
Expanded Polystyrene (0.038)	95	90	85	80	65	115	110	105	95	80
Extruded Polystyrene (0.033)	85	80	75	70	55	100	95	90	85	70
Low-k Expanded Polystyrene (0.030)	75	75	70	65	50	90	85	80	75	65
Polyurethane / PIR (0.022)	55	55	50	45	40	65	65	60	55	50

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Installation Safety

It should be noted that the full working strength of a beam and block floor will not be achieved until it is grouted and the specified finish is applied.

Before any loading or traffic is allowed onto the floor or finish is applied, the blocks must be fully grouted with 1:4 cement / sharp sand.

Beam and block floor systems can be used in their partially finished state as working platforms during the construction process provided they are not subjected to heavy or point loads or to sharp impacts.

Below Ground

Airtec Standard blocks are suitable for use below dpc in soil conditions DS1 & DS2 as defined in BRE Digest Special Digest 1 and condition MX3.2 as defined in BS EN 1996-2: 2006.

Airtec Seven blocks are suitable for use below dpc in soil conditions DS1, DS2 & DS3 as defined in BRE Digest Special Digest 1 and condition MX3.2 as defined in BS EN 1996-2: 2006.

Fire Resistance

Airtec blocks are non-combustible with zero spread of flame and are classed as Class 'A1' in accordance with BS EN 13501-1. Refer to our Airtec Large Wall datasheet for further information.

Good Site Practice & Safe Handling

- Packs should be stored on firm, level ground no more than 2 packs high and
 protected from severe weather to preserve their quality. Care must be taken
 when removing the plastic bands as individual blocks may fall out. Never unband packs above shoulder height.
- In the absence of a revised version of the HSE guidance given in their withdrawn Construction Sheet 37 ' Handling Building Blocks' the following principles should be followed: There is a risk of injury in the repetitive handling of blocks heavier than 20kg. Repetitive manual handling of blocks over 20kg should be subject to a risk assessment and a safe system of work should be established before block-laying commences.
- Blocks should not be laid if the temperature is at or below 3°C and falling.
- Blocks should always be laid on a full bed of mortar and vertical joints filled.

NBS Clauses for our concrete block products can be found on www.source.thenbs.com









Product details and availability may vary between manufacturing locations. Please contact your nearest regional sales office for sales, product and technical advice.

North East Region :

Cumbria, North Lancashire and Borders Region : Yorkshire, Humber and Lincolnshire Region :

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