

# Overview of our block products



We also produce a range of lightweight and dense coursing bricks, concrete common bricks, slip blocks and split coursing blocks for block and beam flooring applications.

	Airtec XL	Airtec Standard	Airtec Party Wall	Airtec Seven	Ultralite	Insulite	Solid Dense	Cellular Dense	Hollow Dense	Rockfaced Blocks
	Airtec XL blocks have the lowest thermal conductivity value of any block currently manufactured in the UK, combining exceptionally low weight, good strength and high thermal performance.	These weight all-round building block are unique in offering a strength of 3.6N/mm <sup>2</sup> but with a thermal conductivity value of just 0.11 W/mK.	Available only as 100mm thick blocks designed for use in Robust Standard Detail acoustic separating walls and Part E walls.	Higher strength aerated blocks intended for use in applications where higher loadbearing capacity or physical toughness is required.	Low density aggregate concrete blocks manufactured using expanded clay products. These blocks are low weight with enhanced thermal properties.	Insulite medium density lightweight blocks are a versatile, all-round building block. Available in Standard and 'Premier' paint-grade finishes and as solid Armstart foundation blocks.	Highly durable and resilient Dense concrete blocks available in Standard and Paint-Grade paint-grade finishes. They are also available as small format MIDI blocks.	A lower weight alternative to the solid dense block with improved thermal properties. The cells are blinded at one end to accept a full bed of mortar for ease of build.	Ideal for constructing reinforced walls, the hollow voids can be filled with poured concrete and steel reinforcement. Perfect for commercial, industrial and agricultural applications.	A light coloured, close-textured dense concrete block manufactured at our Congleton plant. The rippled rock appearance on one face makes them an attractive option for facing applications.
Gross Dry Density, kg/m <sup>3</sup>	460	530	600	730	1050 - 1150	1450 - 1550	1850 - 2100	1850 - 2100	1850 - 2100	2000 - 2200
Compressive Strength, N/mm <sup>2</sup>	2.9	3.6	3.6	7.3	3.6, 7.3	3.6, 4.2, 7.3	7.3, 10.4 †	7.3 †	7.3 †	10.4
Thermal Conductivity, W/mK	0.09	0.11	0.13	0.17	0.32	0.49	1.17	0.88	0.88	1.22

## Applications

† Indicates that higher strengths may be available. Please check

Below dpc <sup>(1)</sup>	●	●	●	●	●	●	●	●	●	●
Beam & Block Floor infill <sup>(2)</sup>				●		●	●			
Internal leaves of cavity walls	●	●	●	●	●	●	●	●		
External leaves of cavity walls <sup>(3)</sup>		●	●	●	●	●	●	●		●
Robust Detail party walls			●	●		●	●			

## Airtec Blocks

Airtec aerated blocks have a plain-faced, smooth, cellular texture which is a suitable background for accepting renders and plasters. In common with all aerated concrete in the UK, the surfaces of the blocks may contain a random amount of larger cells due to an unavoidable consequence of the manufacturing process. These large cells are perfectly normal and are not a defect and do not detract from performance in any way. Although the blocks can be painted, we cannot guarantee that the surfaces will not contain some of these larger cells and we therefore do not recommend using Airtec for paint-grade or fair-faced applications.



## Standard Texture

Ultralite, Insulite and Dense Concrete Standard texture finish is intended for use in background applications. Their relatively open texture provides the perfect substrate for application of renders and plasters. Standard texture blocks are not intended for fair-faced facing or paint-grade applications and due to the use of locally sourced raw materials, their texture and colour will vary between manufacturing locations.



## Premier Insulite

Premier is a closer textured Insulite medium density lightweight aggregate block whose smoother surface offers an excellent paint-grade finish. For internal applications only; unsuitable for external applications. Due to the use of reclaimed and recycled raw materials in these blocks, the precise texture and shade of blocks may vary from batch to batch and also between manufacturing locations. For this reason, Premier Insulite blocks are the perfect paint-grade block but are not intended for use in unfinished decorative fair-faced applications where consistency of colour and texture is critical.



## Dense Paint Grade

Dense Paint Grade concrete blocks have a close textured finish suitable internal, painted applications. Their colour and shade is not guaranteed and therefore are not suitable for unfinished fair-faced applications. Due to the sustainable approach that we have to manufacturing, locally sourced raw materials are used in each plant and as a consequence texture and shade will vary between manufacturing locations. The colour and shade cannot be guaranteed from batch to batch and for this reason they are not suitable for use in decorative fair-faced applications.



(1) Block strength of 7.3 N/mm<sup>2</sup> or greater. (2) Block strength of 7.3 N/mm<sup>2</sup> or greater. (3) Blocks are not weatherproof nor waterproof and are not suitable for unfinished external applications. External leaves must be protected e.g. render, cladding.

The texture images used here are intended for indicative purposes only and actual textures and shades may vary between manufacturing locations. For further information and sample blocks, please contact your local sales office - details can be found on our website. We advise the construction sample panels on site as masonry appearance cannot be appreciated from individual blocks.