



THOMAS ARMSTRONG

(CONCRETE BLOCKS) LTD



U Values

Using our range of concrete blocks

A series of example wall and floor constructions
using our blocks to meet a range of target u-values

Serving the construction industry since 1830

This brochure contains over 900 individual u-value calculations for most common masonry wall types using the Thomas Armstrong group's range of concrete blocks. Although by no means exhaustive, this set of data aims to provide solutions to achieving a range of u-values in most scenarios.

The target u-values contained here encompass both current and likely future requirements imposed by the Building Regulations including zero carbon homes.

Each table shows the simplest options for achieving the target u-value for each block type used. However, there will be alternative options available with other insulation types and for specific u-value calculations, please contact our Technical Department.

The information contained here is designed to offer the most economical solutions, keeping cavity widths to a minimum wherever possible.



We are certified to BS EN ISO 9001:2015, BS EN ISO 14001:2015 and possess BES 6001 Responsible Sourcing 'Excellent' rating for our Airtec and aggregate block production.



Airtec blocks are BBA certified - cert no. 06/4309



All of the products in our concrete block and block paving ranges are manufactured and sold in compliance with CE-marking requirements. CE Certificates and Declarations of Performance certificates for each of our products are freely available to download from:

www.thomasarmstrongconcreteblocks.co.uk/ce-certificates

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Calculations are made in good faith and are based upon the data provided by insulation manufacturers at the time. However, such data is liable to change without prior notice from the manufacturer and we recommend that verification calculations are carried out at the design stage based upon the very latest available data.

The calculations shown here are intended for indicative use only and Thomas Armstrong Limited and its associated companies cannot be held liable for any incidental or consequential damage or loss arising from the use of this data.

Partial Fill Cavity Walls

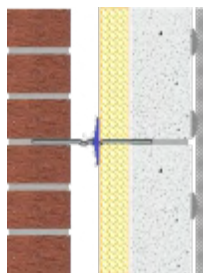


Table 01

Brick outer leaf, 50mm clear cavity

100mm block inner leaf using 10mm conventional mortar

Plasterboard dot & dab internal finish

	0.28 W/m ² K	0.25 W/m ² K	0.22 W/m ² K	0.20 W/m ² K	0.18 W/m ² K	0.15 W/m ² K
Airtec XL 2.9N	30mm PIR/PU @ 0.018	35mm PIR/PU @ 0.018	45mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	85mm PIR/PU @ 0.018
	35mm PIR/PU @ 0.022	45mm PIR/PU @ 0.022	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	100mm PIR/PU @ 0.022
Airtec Standard 3.6N	30mm PIR/PU @ 0.018	40mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	85mm PIR/PU @ 0.018
	40mm PIR/PU @ 0.022	50mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	70mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	105mm PIR/PU @ 0.022
Airtec Seven 7.3N	35mm PIR/PU @ 0.018	45mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	90mm PIR/PU @ 0.018
	45mm PIR/PU @ 0.022	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	85mm PIR/PU @ 0.022	110mm PIR/PU @ 0.022
Ultralite	40mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	75mm PIR/PU @ 0.018	95mm PIR/PU @ 0.018
	50mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	70mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	90mm PIR/PU @ 0.022	115mm PIR/PU @ 0.022
Insulite	40mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	75mm PIR/PU @ 0.018	95mm PIR/PU @ 0.018
	50mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	70mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	95mm PIR/PU @ 0.022	115mm PIR/PU @ 0.022
Dense Cellular	45mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	80mm PIR/PU @ 0.018	100mm PIR/PU @ 0.018
	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	85mm PIR/PU @ 0.022	95mm PIR/PU @ 0.022	120mm PIR/PU @ 0.022
Dense Solid	45mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	80mm PIR/PU @ 0.018	100mm PIR/PU @ 0.018
	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	85mm PIR/PU @ 0.022	95mm PIR/PU @ 0.022	120mm PIR/PU @ 0.022

Note: The thickness of insulation quoted above is the minimum amount required to meet the target but may not be available. Therefore the next available size up should be used

All calculations are carried out in accordance with the latest methods as described in BS EN ISO 6946. A correction level of zero has been used which assumes all joints between insulation batts are sealed up. The figures shown are intended for indicative purposes only. For specific calculations please contact one of our sales offices.

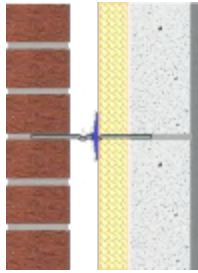


Table 02

Brick outer leaf, 50mm clear cavity

100mm block inner leaf using 10mm conventional mortar

Wet Plaster

	0.28 W/m ² K	0.25 W/m ² K	0.22 W/m ² K	0.20 W/m ² K	0.18 W/m ² K	0.15 W/m ² K
Airtec XL 2.9N	35mm PIR/PU @ 0.018	40mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	85mm PIR/PU @ 0.018
	40mm PIR/PU @ 0.022	50mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	70mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	105mm PIR/PU @ 0.022
Airtec Standard 3.6N	35mm PIR/PU @ 0.018	45mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	95mm PIR/PU @ 0.018
	45mm PIR/PU @ 0.022	50mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	85mm PIR/PU @ 0.022	110mm PIR/PU @ 0.022
Airtec Seven 7.3N	35mm PIR/PU @ 0.018	45mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	90mm PIR/PU @ 0.018
	50mm PIR/PU @ 0.022	55mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	90mm PIR/PU @ 0.022	115mm PIR/PU @ 0.022
Ultralite	45mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	80mm PIR/PU @ 0.018	95mm PIR/PU @ 0.018
	50mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	85mm PIR/PU @ 0.022	95mm PIR/PU @ 0.022	120mm PIR/PU @ 0.022
Insulite	45mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	80mm PIR/PU @ 0.018	100mm PIR/PU @ 0.018
	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	85mm PIR/PU @ 0.022	95mm PIR/PU @ 0.022	125mm PIR/PU @ 0.022
Dense Cellular	45mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	80mm PIR/PU @ 0.018	100mm PIR/PU @ 0.018
	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	85mm PIR/PU @ 0.022	100mm PIR/PU @ 0.022	120mm PIR/PU @ 0.022
Dense Solid	45mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	80mm PIR/PU @ 0.018	100mm PIR/PU @ 0.018
	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	90mm PIR/PU @ 0.022	110mm PIR/PU @ 0.022	125mm PIR/PU @ 0.022

Note: The thickness of insulation quoted above is the minimum amount required to meet the target but may not be available. Therefore the next available size up should be used

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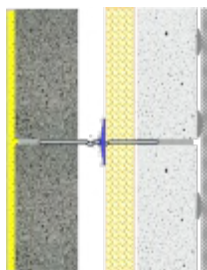


Table 03

Rendered 100mm Insulite block outer leaf, 50mm clear cavity

100mm block inner leaf using 10mm conventional mortar

Plasterboard dot & dab internal finish

	0.28 W/m ² K	0.25 W/m ² K	0.22 W/m ² K	0.20 W/m ² K	0.18 W/m ² K	0.15 W/m ² K
Airtec XL 2.9N	30mm PIR/PU @ 0.018	35mm PIR/PU @ 0.018	45mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	80mm PIR/PU @ 0.018
	35mm PIR/PU @ 0.022	45mm PIR/PU @ 0.022	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	100mm PIR/PU @ 0.022
Airtec Standard 3.6N	30mm PIR/PU @ 0.018	40mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	85mm PIR/PU @ 0.018
	35mm PIR/PU @ 0.022	45mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	70mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	105mm PIR/PU @ 0.022
Airtec Seven 7.3N	35mm PIR/PU @ 0.018	45mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	90mm PIR/PU @ 0.018
	40mm PIR/PU @ 0.022	50mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	85mm PIR/PU @ 0.022	110mm PIR/PU @ 0.022
Ultralite	40mm PIR/PU @ 0.018	45mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	75mm PIR/PU @ 0.018	95mm PIR/PU @ 0.018
	50mm PIR/PU @ 0.022	55mm PIR/PU @ 0.022	70mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	90mm PIR/PU @ 0.022	115mm PIR/PU @ 0.022
Insulite	40mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	75mm PIR/PU @ 0.018	95mm PIR/PU @ 0.018
	50mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	70mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	90mm PIR/PU @ 0.022	115mm PIR/PU @ 0.022
Dense Cellular	45mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	75mm PIR/PU @ 0.018	95mm PIR/PU @ 0.018
	50mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	70mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	95mm PIR/PU @ 0.022	115mm PIR/PU @ 0.022
Dense Solid	45mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	80mm PIR/PU @ 0.018	95mm PIR/PU @ 0.018
	50mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	95mm PIR/PU @ 0.022	120mm PIR/PU @ 0.022

Note: The thickness of insulation quoted above is the minimum amount required to meet the target but may not be available. Therefore the next available size up should be used

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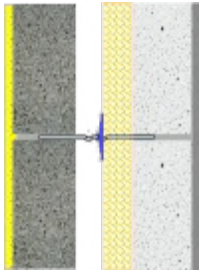


Table 04

Rendered 100mm Insulite block outer leaf, 50mm clear cavity

100mm block inner leaf using 10mm conventional mortar

Wet Plaster

	0.28 W/m ² K	0.25 W/m ² K	0.22 W/m ² K	0.20 W/m ² K	0.18 W/m ² K	0.15 W/m ² K
Airtec XL 2.9N	30mm PIR/PU @ 0.018	40mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	85mm PIR/PU @ 0.018
	40mm PIR/PU @ 0.022	45mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	70mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	105mm PIR/PU @ 0.022
Airtec Standard 3.6N	30mm PIR/PU @ 0.018	40mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	85mm PIR/PU @ 0.018
	40mm PIR/PU @ 0.022	50mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	70mm PIR/PU @ 0.022	85mm PIR/PU @ 0.022	105mm PIR/PU @ 0.022
Airtec Seven 7.3N	40mm PIR/PU @ 0.018	45mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	75mm PIR/PU @ 0.018	90mm PIR/PU @ 0.018
	45mm PIR/PU @ 0.022	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	90mm PIR/PU @ 0.022	110mm PIR/PU @ 0.022
Ultralite	40mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	75mm PIR/PU @ 0.018	95mm PIR/PU @ 0.018
	50mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	70mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	90mm PIR/PU @ 0.022	115mm PIR/PU @ 0.022
Insulite	45mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	80mm PIR/PU @ 0.018	100mm PIR/PU @ 0.018
	55mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	85mm PIR/PU @ 0.022	95mm PIR/PU @ 0.022	120mm PIR/PU @ 0.022
Dense Cellular	45mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	80mm PIR/PU @ 0.018	100mm PIR/PU @ 0.018
	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	85mm PIR/PU @ 0.022	95mm PIR/PU @ 0.022	120mm PIR/PU @ 0.022
Dense Solid	45mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	80mm PIR/PU @ 0.018	100mm PIR/PU @ 0.018
	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	85mm PIR/PU @ 0.022	100mm PIR/PU @ 0.022	120mm PIR/PU @ 0.022

Note: The thickness of insulation quoted above is the minimum amount required to meet the target but may not be available. Therefore the next available size up should be used

All calculations are carried out in accordance with the latest methods as described in BS EN ISO 6946. A correction level of zero has been used which assumes all joints between insulation batts are sealed up. The figures shown are intended for indicative purposes only. For specific calculations please contact one of our sales offices.

Partial Fill Cavity Walls



Table 05

Brick outer leaf, 50mm clear cavity

100mm block inner leaf using 2mm thin joint mortar

Plasterboard dot & dab internal finish

	0.28 W/m ² K	0.25 W/m ² K	0.22 W/m ² K	0.20 W/m ² K	0.18 W/m ² K	0.15 W/m ² K
Airtec XL 2.9N	25mm PIR/PU @ 0.018	35mm PIR/PU @ 0.018	45mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	80mm PIR/PU @ 0.018
	30mm PIR/PU @ 0.022	40mm PIR/PU @ 0.022	55mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	95mm PIR/PU @ 0.022
Airtec Standard 3.6N	30mm PIR/PU @ 0.018	40mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	85mm PIR/PU @ 0.018
	35mm PIR/PU @ 0.022	45mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	100mm PIR/PU @ 0.022
Airtec Seven 7.3N	35mm PIR/PU @ 0.018	45mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	90mm PIR/PU @ 0.018
	45mm PIR/PU @ 0.022	50mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	85mm PIR/PU @ 0.022	110mm PIR/PU @ 0.022

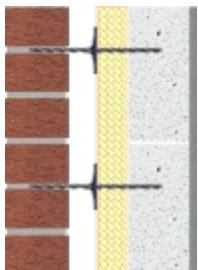


Table 06

Brick outer leaf, 50mm clear cavity

100mm block inner leaf using 2mm thin joint mortar

Wet plaster internal finish

	0.28 W/m ² K	0.25 W/m ² K	0.22 W/m ² K	0.20 W/m ² K	0.18 W/m ² K	0.15 W/m ² K
Airtec XL 2.9N	30mm PIR/PU @ 0.018	35mm PIR/PU @ 0.018	45mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	85mm PIR/PU @ 0.018
	35mm PIR/PU @ 0.022	45mm PIR/PU @ 0.022	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	100mm PIR/PU @ 0.022
Airtec Standard 3.6N	35mm PIR/PU @ 0.018	40mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	85mm PIR/PU @ 0.018
	40mm PIR/PU @ 0.022	50mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	70mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	105mm PIR/PU @ 0.022
Airtec Seven 7.3N	40mm PIR/PU @ 0.018	45mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	75mm PIR/PU @ 0.018	90mm PIR/PU @ 0.018
	45mm PIR/PU @ 0.022	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	90mm PIR/PU @ 0.022	110mm PIR/PU @ 0.022

Note: The thickness of insulation quoted above is the minimum amount required to meet the target but may not be available. Therefore the next available size up should be used. All calculations are carried out in accordance with the latest methods as described in BS EN ISO 6946. A correction level of zero has been used which assumes all joints between insulation batts are sealed up. The figures shown are intended for indicative purposes only. For specific calculations please contact one of our sales offices.

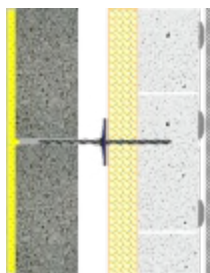


Table 07

Rendered 100mm Insulite block outer leaf, 50mm clear cavity

100mm block inner leaf using 2mm thin joint mortar

Plasterboard dot & dab internal finish

	0.28 W/m ² K	0.25 W/m ² K	0.22 W/m ² K	0.20 W/m ² K	0.18 W/m ² K	0.15 W/m ² K
Airtec XL 2.9N	25mm PIR/PU @ 0.018	35mm PIR/PU @ 0.018	40mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	80mm PIR/PU @ 0.018
	30mm PIR/PU @ 0.022	40mm PIR/PU @ 0.022	50mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	95mm PIR/PU @ 0.022
Airtec Standard 3.6N	30mm PIR/PU @ 0.018	35mm PIR/PU @ 0.018	45mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	80mm PIR/PU @ 0.018
	35mm PIR/PU @ 0.022	45mm PIR/PU @ 0.022	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	100mm PIR/PU @ 0.022
Airtec Seven 7.3N	35mm PIR/PU @ 0.018	40mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	90mm PIR/PU @ 0.018
	40mm PIR/PU @ 0.022	50mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	70mm PIR/PU @ 0.022	85mm PIR/PU @ 0.022	105mm PIR/PU @ 0.022

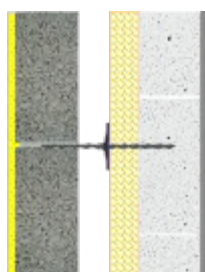


Table 08

Rendered 100mm Insulite block outer leaf, 50mm clear cavity

100mm block inner leaf using 2mm thin joint mortar

Wet plaster internal finish

	0.28 W/m ² K	0.25 W/m ² K	0.22 W/m ² K	0.20 W/m ² K	0.18 W/m ² K	0.15 W/m ² K
Airtec XL 2.9N	30mm PIR/PU @ 0.018	35mm PIR/PU @ 0.018	45mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	80mm PIR/PU @ 0.018
	35mm PIR/PU @ 0.022	45mm PIR/PU @ 0.022	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	100mm PIR/PU @ 0.022
Airtec Standard 3.6N	30mm PIR/PU @ 0.018	40mm PIR/PU @ 0.018	50mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	65mm PIR/PU @ 0.018	85mm PIR/PU @ 0.018
	40mm PIR/PU @ 0.022	45mm PIR/PU @ 0.022	60mm PIR/PU @ 0.022	70mm PIR/PU @ 0.022	80mm PIR/PU @ 0.022	105mm PIR/PU @ 0.022
Airtec Seven 7.3N	35mm PIR/PU @ 0.018	45mm PIR/PU @ 0.018	55mm PIR/PU @ 0.018	60mm PIR/PU @ 0.018	70mm PIR/PU @ 0.018	90mm PIR/PU @ 0.018
	45mm PIR/PU @ 0.022	55mm PIR/PU @ 0.022	65mm PIR/PU @ 0.022	75mm PIR/PU @ 0.022	85mm PIR/PU @ 0.022	110mm PIR/PU @ 0.022

Note: The thickness of insulation quoted above is the minimum amount required to meet the target but may not be available. Therefore the next available size up should be used. All calculations are carried out in accordance with the latest methods as described in BS EN ISO 6946. A correction level of zero has been used which assumes all joints between insulation batts are sealed up. The figures shown are intended for indicative purposes only. For specific calculations please contact one of our sales offices.

Fully Filled Cavity Walls

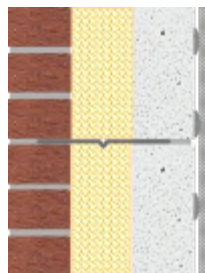


Table 09

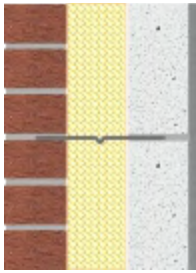
Brick outer leaf

100mm block inner leaf using 10mm conventional mortar

Plasterboard dot & dab or insulated drylining internal finish

	0.28 W/m ² K	0.25 W/m ² K	0.22 W/m ² K	0.20 W/m ² K	0.18 W/m ² K	0.15 W/m ² K
Airtec XL 2.9N	100mm Blown	100mm batt @ 0.037	100mm batt @ 0.021 125mm batt @ 0.037	125mm batt @ 0.034	100mm batt @ 0.021 125mm batt @ 0.032	100mm batt @ 0.021 + 20mm insulated drylining
Airtec Standard 3.6N	100mm Blown	100mm batt @ 0.034	125mm batt @ 0.037	125mm batt @ 0.032	100mm batt @ 0.021	100mm batt @ 0.021 + 20mm insulated drylining
Airtec Seven 7.3N	100mm batt @ 0.037	100mm batt @ 0.032	125mm batt @ 0.034	125mm batt @ 0.030	100mm batt @ 0.021	100mm batt @ 0.021 + 25mm insulated drylining
Ultralite	100mm batt @ 0.036	100mm batt @ 0.030 125mm batt @ 0.037	125mm batt @ 0.032	125mm batt @ 0.030	100mm batt @ 0.021	100mm batt @ 0.021 + 25mm insulated drylining
Insulite	100mm batt @ 0.034	100mm batt @ 0.030 125mm batt @ 0.037	125mm batt @ 0.032	100mm batt @ 0.021	150mm batt @ 0.030	100mm batt @ 0.021 + 30mm insulated drylining
Dense Cellular	100mm batt @ 0.032	125mm batt @ 0.037	125mm batt @ 0.032	100mm batt @ 0.021	150mm batt @ 0.030	100mm batt @ 0.021 + 35mm insulated drylining
Dense Solid	100mm batt @ 0.032	125mm batt @ 0.034	125mm batt @ 0.030	100mm batt @ 0.021	150mm batt @ 0.030	100mm batt @ 0.021 + 35mm insulated drylining

All calculations are carried out in accordance with the latest methods as described in BS EN ISO 6946. A correction level of zero has been used which assumes all joints between insulation batts are sealed up. The figures shown are intended for indicative purposes only. For specific calculations please contact one of our sales offices.

**Table 10**

Brick outer leaf

100mm block inner leaf using 10mm conventional mortar

Wet Plaster (insulated drylining is not an option)

	0.28 W/m ² K	0.25 W/m ² K	0.22 W/m ² K	0.20 W/m ² K	0.18 W/m ² K	0.15 W/m ² K
Airtec XL 2.9N	100mm Blown	100mm batt @ 0.034	100mm batt @ 0.030 125mm batt @ 0.037	125mm batt @ 0.032	100mm batt @ 0.021 150mm batt @ 0.032	Cavities wider than 150mm are required to achieve u-values of 0.15 W/m ² K. Please contact our Technical Department for specific calculations.
Airtec Standard 3.6N	100mm Blown	100mm batt @ 0.032	125mm batt @ 0.034	125mm batt @ 0.030	100mm batt @ 0.021	
Airtec Seven 7.3N	100mm batt @ 0.034	100mm batt @ 0.030 125mm batt @ 0.037	125mm batt @ 0.032	100mm batt @ 0.021	150mm batt @ 0.030	
Ultralite	100mm batt @ 0.034	125mm batt @ 0.037	125mm batt @ 0.030	100mm batt @ 0.021 150mm batt @ 0.032	150mm batt @ 0.030	
Insulite	100mm batt @ 0.032	125mm batt @ 0.034	125mm batt @ 0.030	150mm batt @ 0.030	Cavities wider than 150mm are required to achieve u-values of 0.15 W/m ² K. Please contact our Technical Department for specific calculations.	
Dense Cellular	100mm batt @ 0.030	125mm batt @ 0.034	150mm batt @ 0.034	150mm batt @ 0.030		
Dense Solid	100mm batt @ 0.030	125mm batt @ 0.034	125mm batt @ 0.034	150mm batt @ 0.030		

All calculations are carried out in accordance with the latest methods as described in BS EN ISO 6946. A correction level of zero has been used which assumes all joints between insulation batts are sealed up. The figures shown are intended for indicative purposes only. For specific calculations please contact one of our sales offices.

Fully Filled Cavity Walls

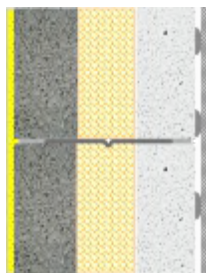


Table 11

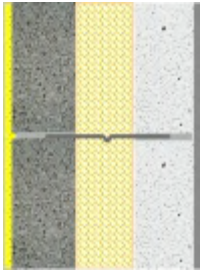
Rendered 100mm Insulite block outer leaf

100mm block inner leaf using 10mm conventional mortar

Plasterboard dot & dab or insulated drylining internal finish

	0.28 W/m²K	0.25 W/m²K	0.22 W/m²K	0.20 W/m²K	0.18 W/m²K	0.15 W/m²K
Airtec XL 2.9N	100mm Blown	100mm Blown	100mm batt @ 0.032 125mm batt @ 0.037	100mm batt @ 0.021	100mm batt @ 0.021 125mm batt @ 0.030	100mm batt @ 0.021 + 20mm insulated drylining
Airtec Standard 3.6N	100mm Blown	100mm batt @ 0.037	100mm batt @ 0.030	100mm batt @ 0.021 125mm batt @ 0.030	100mm batt @ 0.021	100mm batt @ 0.021 + 25mm insulated drylining
Airtec Seven 7.3N	100mm Blown	100mm batt @ 0.032	125mm batt @ 0.034	100mm batt @ 0.021 125mm batt @ 0.030	100mm batt @ 0.021 + 15mm insulated drylining	100mm batt @ 0.021 + 25mm insulated drylining
Ultralite	100mm batt @ 0.037	100mm batt @ 0.032	125mm batt @ 0.034	125mm batt @ 0.030	100mm batt @ 0.021 + 15mm insulated drylining	100mm batt @ 0.021 + 30mm insulated drylining
Insulite	100mm batt @ 0.034	100mm batt @ 0.030 125mm batt @ 0.037	125mm batt @ 0.032	100mm batt @ 0.021	100mm batt @ 0.021 + 15mm insulated drylining	100mm batt @ 0.021 + 35mm insulated drylining
Dense Cellular	100mm batt @ 0.034	125mm batt @ 0.037	125mm batt @ 0.030	100mm batt @ 0.021	100mm batt @ 0.021 + 15mm insulated drylining	100mm batt @ 0.021 + 35mm insulated drylining
Dense Solid	100mm batt @ 0.032	125mm batt @ 0.034	125mm batt @ 0.030	100mm batt @ 0.021	100mm batt @ 0.021 + 15mm insulated drylining	100mm batt @ 0.021 + 35mm insulated drylining

All calculations are carried out in accordance with the latest methods as described in BS EN ISO 6946. A correction level of zero has been used which assumes all joints between insulation batts are sealed up. The figures shown are intended for indicative purposes only. For specific calculations please contact one of our sales offices.

**Table 12**

Rendered 100mm Insulite block outer leaf

100mm block inner leaf using 10mm conventional mortar

Wet Plaster (insulated drylining is not an option)

	0.28 W/m ² K	0.25 W/m ² K	0.22 W/m ² K	0.20 W/m ² K	0.18 W/m ² K	0.15 W/m ² K
Airtec XL 2.9N	100mm Blown	100mm batt @ 0.037	100mm batt @ 0.030 125mm batt @ 0.037	125mm batt @ 0.032	100mm batt @ 0.021 125mm batt @ 0.030	Cavities wider than 150mm are required to achieve u-values of 0.15 W/m ² K. Please contact our Technical Department for specific calculations.
Airtec Standard 3.6N	100mm Blown	125mm batt @ 0.034	125mm batt @ 0.034	125mm batt @ 0.032	100mm batt @ 0.021	
Airtec Seven 7.3N	100mm batt @ 0.037	100mm batt @ 0.032	125mm batt @ 0.034	100mm batt @ 0.021 125mm batt @ 0.030	100mm batt @ 0.021	
Ultralite	100mm batt @ 0.034	125mm batt @ 0.037	125mm batt @ 0.032	100mm batt @ 0.021	150mm batt @ 0.030	
Insulite	100mm batt @ 0.032	125mm batt @ 0.036	125mm batt @ 0.032	100mm batt @ 0.021	Cavities wider than 150mm are required to achieve u-values of 0.15 W/m ² K. Please contact our Technical Department for specific calculations.	
Dense Cellular	100mm batt @ 0.032	125mm batt @ 0.034	100mm batt @ 0.021 125mm batt @ 0.030	150mm batt @ 0.030		
Dense Solid	100mm batt @ 0.032	125mm batt @ 0.034	125mm batt @ 0.030	150mm batt @ 0.030		

All calculations are carried out in accordance with the latest methods as described in BS EN ISO 6946. A correction level of zero has been used which assumes all joints between insulation batts are sealed up. The figures shown are intended for indicative purposes only. For specific calculations please contact one of our sales offices.

Fully Filled Cavity Walls

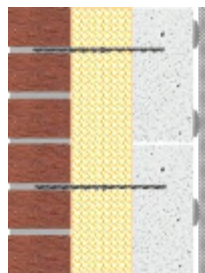


Table 13

Brick outer leaf

100mm block inner leaf using 2mm thin joint mortar

Plasterboard dot & dab or insulated drylining internal finish

	0.28 W/m ² K	0.25 W/m ² K	0.22 W/m ² K	0.20 W/m ² K	0.18 W/m ² K	0.15 W/m ² K
Airtec XL 2.9N	80mm Blown	95mm Blown	100mm batt @ 0.034	100mm batt @ 0.032	125mm batt @ 0.032	100mm batt @ 0.021 + 15mm insulated drylining
Airtec Standard 3.6N	85mm Blown	100mm batt @ 0.037	100mm batt @ 0.032 125mm batt @ 0.037	125mm batt @ 0.034	125mm batt @ 0.030	100mm batt @ 0.021 + 20mm insulated drylining
Airtec Seven 7.3N	100mm Blown	100mm batt @ 0.034	125mm batt @ 0.036	125mm batt @ 0.032	100mm batt @ 0.021	100mm batt @ 0.021 + 20mm insulated drylining

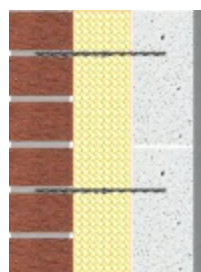


Table 14

Brick outer leaf

100mm block inner leaf using 2mm thin joint mortar

Wet plaster internal finish

	0.28 W/m ² K	0.25 W/m ² K	0.22 W/m ² K	0.20 W/m ² K	0.18 W/m ² K	0.15 W/m ² K
Airtec XL 2.9N	85mm Blown	100mm Blown	100mm batt @ 0.032	125mm batt @ 0.034	125mm batt @ 0.030 100mm batt @ 0.021	Cavities wider than 150mm are required to achieve u-values of 0.15W/m ² K. Please contact our Technical Department for specific calculations.
Airtec Standard 3.6N	95mm Blown	100mm batt @ 0.036	125mm batt @ 0.030	100mm batt @ 0.021	100mm batt @ 0.021 150mm batt @ 0.034	
Airtec Seven 7.3N	100mm batt @ 0.037	100mm batt @ 0.032 125mm Blown	125mm batt @ 0.034	100mm batt @ 0.021 125mm batt @ 0.030	100mm batt @ 0.021	

All calculations are carried out in accordance with the latest methods as described in BS EN ISO 6946. A correction level of zero has been used which assumes all joints between insulation batts are sealed up. The figures shown are intended for indicative purposes only. For specific calculations please contact one of our sales offices.

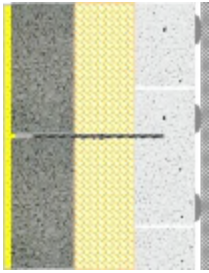


Table 15

Rendered 100mm Insulite block outer leaf

100mm block inner leaf using 2mm thin joint mortar

Plasterboard dot & dab or insulated drylining internal finish

	0.28 W/m ² K	0.25 W/m ² K	0.22 W/m ² K	0.20 W/m ² K	0.18 W/m ² K	0.15 W/m ² K
Airtec XL 2.9N	80mm Blown	95mm Blown	100mm batt @ 0.034	100mm batt @ 0.030 125mm batt @ 0.037	125mm batt @ 0.032	100mm batt @ 0.021 + 15mm insulated drylining
Airtec Standard 3.6N	85mm Blown	100mm Blown	100mm batt @ 0.032	125mm batt @ 0.034	125mm batt @ 0.030	100mm batt @ 0.021 + 15mm insulated drylining
Airtec Seven 7.3N	95mm Blown	100mm batt @ 0.034	125mm batt @ 0.037	125mm batt @ 0.032	100mm batt @ 0.021	100mm batt @ 0.021 + 15mm insulated drylining

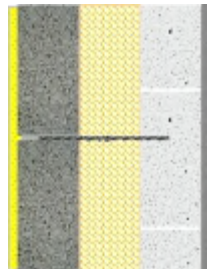


Table 16

Rendered 100mm Insulite block outer leaf,

100mm block inner leaf using 2mm thin joint mortar

Wet plaster internal finish

	0.28 W/m ² K	0.25 W/m ² K	0.22 W/m ² K	0.20 W/m ² K	0.18 W/m ² K	0.15 W/m ² K
Airtec XL 2.9N	85mm Blown	100mm Blown	125mm batt @ 0.037	125mm batt @ 0.036	125mm batt @ 0.030 100mm batt @ 0.021	Cavities wider than 150mm are required to achieve u-values of 0.15W/m²K. Please contact our Technical Department for specific calculations.
Airtec Standard 3.6N	90mm Blown	100mm batt @ 0.037	100mm batt @ 0.030 125mm batt @ 0.037	125mm batt @ 0.034	100mm batt @ 0.021 150mm batt @ 0.036	
Airtec Seven 7.3N	100mm Blown	100mm batt @ 0.032	125mm batt @ 0.034	100mm batt @ 0.021 125mm batt @ 0.030	100mm batt @ 0.021	

All calculations are carried out in accordance with the latest methods as described in BS EN ISO 6946. A correction level of zero has been used which assumes all joints between insulation batts are sealed up. The figures shown are intended for indicative purposes only. For specific calculations please contact one of our sales offices.

Externally Insulated Solid Walls

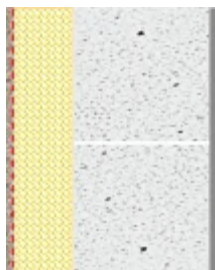


Table 17

Solid Airtec 215mm block wall using 2mm thin joint mortar

Wet plaster internal finish

Reinforced render system or brick slip external finish

	0.20 W/m ² K	0.18 W/m ² K	0.16 W/m ² K	0.14 W/m ² K	0.12 W/m ² K	0.10 W/m ² K
Airtec XL	80mm @ 0.031	100mm @ 0.031	115mm @ 0.031	145mm @ 0.031	180mm @ 0.031	225mm @ 0.031
2.9N	50mm @ 0.020	60mm @ 0.020	80mm @ 0.020	90mm @ 0.020	110mm @ 0.020	145mm @ 0.020
Airtec Standard	90mm @ 0.031	110mm @ 0.031	130mm @ 0.031	155mm @ 0.031	190mm @ 0.031	240mm @ 0.031
3.6N	60mm @ 0.020	70mm @ 0.020	80mm @ 0.020	100mm @ 0.020	120mm @ 0.020	150mm @ 0.020

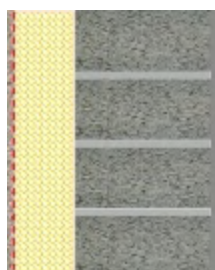


Table 18

Solid Insulite or Dense concrete blocks laid flat using 10mm conventional mortar

Wet plaster internal finish

Reinforced render system or brick slip external finish

	0.20 W/m ² K	0.18 W/m ² K	0.16 W/m ² K	0.14 W/m ² K	0.12 W/m ² K	0.10 W/m ² K
Insulite Aggregate Block	135mm @ 0.031	155mm @ 0.031	175mm @ 0.031	200mm @ 0.031	235mm @ 0.031	285mm @ 0.031
	80mm @ 0.020	95mm @ 0.020	110mm @ 0.020	125mm @ 0.020	150mm @ 0.020	180mm @ 0.020
Dense Concrete Block	145mm @ 0.031	160mm @ 0.031	180mm @ 0.031	210mm @ 0.031	245mm @ 0.031	295mm @ 0.031
	90mm @ 0.020	100mm @ 0.020	115mm @ 0.020	130mm @ 0.020	155mm @ 0.020	185mm @ 0.020

All calculations are carried out in accordance with the latest methods as described in BS EN ISO 6946. A correction level of zero has been used which assumes all joints between insulation batts are sealed up. The figures shown are intended for indicative purposes only. For specific calculations please contact one of our sales offices.

Suspended Block & Beam Floors

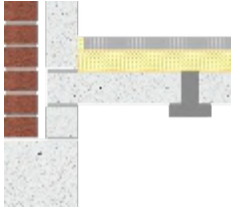


Table 19 (continued on next page)

150mm T-beam with 100mm thick block infill

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
Airtec Large Format	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
Insulite 7.3N	Expanded Polystyrene (0.038)	110	105	100	90	80	125	120	115	110	95
	Extruded Polystyrene (0.033)	95	90	85	80	70	110	105	100	95	85
	Low k Expanded Polystyrene (0.030)	85	85	80	75	60	100	95	90	85	75
	Polyurethane / PIR (0.022)	65	60	60	55	45	75	70	70	65	55
Solid Dense 7.3N	Expanded Polystyrene (0.038)	115	110	105	95	85	130	125	120	110	100
	Extruded Polystyrene (0.033)	100	95	90	85	70	115	110	105	100	85
	Low k Expanded Polystyrene (0.030)	90	85	85	75	65	105	100	95	90	80
	Polyurethane / PIR (0.022)	65	65	60	55	50	75	75	70	65	60

The figures in the table show the thickness of insulation required to meet the target U-Values shown.

The P/A values are intended to represent typical house types, from terraced to detached.

The thermal values used for the insulation types are generic and may vary between manufacturers.

All calculations are carried out in accordance with the latest methods as described in BS EN ISO 6946. A correction level of zero has been used which assumes all joints between insulation batts are sealed up. The figures shown are intended for indicative purposes only. For specific calculations please contact one of our sales offices.

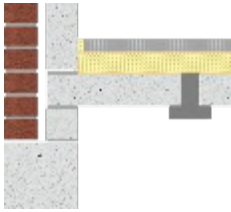


Table 19 (continued)

150mm T-beam with 100mm thick block infill

Insulation slabs

Standard Screed, 65mm

		0.18 W/m ² K					0.16 W/m ² K				
		P/A Ratio:									
		0.70	0.60	0.50	0.40	0.30	0.70	0.60	0.50	0.40	0.30
Airtec Large Format	Expanded Polystyrene (0.038)	135	130	125	115	100	160	155	150	140	125
	Extruded Polystyrene (0.033)	115	110	105	100	90	135	135	130	120	110
	Low k Expanded Polystyrene (0.030)	105	100	100	85	80	125	120	115	110	100
	Polyurethane / PIR (0.022)	80	75	70	70	60	90	90	85	80	75
Insulite 7.3N	Expanded Polystyrene (0.038)	145	140	135	130	115	170	165	160	155	140
	Extruded Polystyrene (0.033)	125	125	120	110	100	150	145	140	135	120
	Low k Expanded Polystyrene (0.030)	115	110	110	100	90	135	130	130	120	110
	Polyurethane / PIR (0.022)	85	85	80	75	70	100	100	95	90	80
Solid Dense 7.3N	Expanded Polystyrene (0.038)	150	145	140	130	120	175	170	165	155	145
	Extruded Polystyrene (0.033)	130	125	120	115	105	150	150	145	135	125
	Low k Expanded Polystyrene (0.030)	120	115	110	105	95	140	135	130	125	115
	Polyurethane / PIR (0.022)	90	85	80	80	70	100	100	95	90	85

The figures in the table show the thickness of insulation required to meet the target U-Values shown.

The P/A values are intended to represent typical house types, from terraced to detached.

The thermal values used for the insulation types are generic and may vary between manufacturers.

All calculations are carried out in accordance with the latest methods as described in BS EN ISO 6946. A correction level of zero has been used which assumes all joints between insulation batts are sealed up. The figures shown are intended for indicative purposes only. For specific calculations please contact one of our sales offices.

As a company policy we are constantly striving to use as much recycled material as possible which is often dependent on the availability of materials, location of the source and their effect on the quality of the blocks.

The majority of our products are manufactured under the ISO 9001 and ISO 14001 Quality & Environmental Management standards.

We possess the highest possible rating of 'Excellent' to the internationally recognised Responsible Sourcing standard BES 6001 and was the very first block manufacturer in the world to achieve this!.



NBS Clauses and BIM Objects for our blocks are available at:

www.source.thenbs.com

Insulite Lightweight Blocks

The vast majority of raw material used in our lightweight concrete blocks is fully recycled. In fact 90 - 95% by weight of the block consists of recycled material, predominantly FBA (furnace bottom ash) from coal-fired power stations which would otherwise be landfilled.



Dense Concrete Blocks

By their nature, dense concrete blocks require a proportion of quarried sand and gravel in order to achieve the desired toughness, strength and density characteristics. We continually strive to utilize as much recycled material as possible and in fact the recycled content of these blocks is around 30% by weight.



Airtec Aerated Concrete Products

Up to 90% of all raw materials used in the manufacture of our Airtec products is recycled material. Furthermore, Airtec is manufactured in the UK's most advanced aerated product facility utilizing unique low-energy equipment. We re-use excess energy from the curing process throughout the site; nothing is wasted.



Reference Table of Our Block Types

	Airtec XL	Airtec Standard	Airtec Party Wall	Airtec Seven	Ultralite	Insulite	Cellular/ Hollow Dense	Solid Dense
Compressive Strength(s) N/mm ²	2.9	3.6	3.6	7.3	3.6, 7.3	4.2, 7.3 †	7.3	7.3, 10.4 †
Gross Dry Density kg/m ³	460	530	600	730	950 - 1050	1450 - 1550	1850 - 2100	1850 - 2100
Design Thermal Conductivity W/mK <i>Inner leaf (Outer leaf)</i>	0.09 (0.10)	0.11 (0.12)	0.13 (0.15)	0.17 (0.19)	0.32 (0.34)	0.49 (0.54)	0.88 (0.95)	1.17 (1.26)

† Higher strengths are available to order



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Established 1830

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