



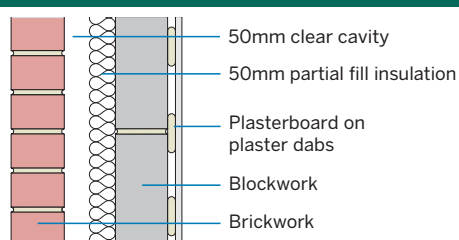
Part L 2021 update

Aircrete blocks in new build houses and flats and new extensions to existing buildings

Approved Document L1 of the Building Regulations sets out minimum fabric standards for heat loss areas, including external walls in new-build houses and flats. For external walls, this is 0.26W/m²K, however the actual figure required to satisfy SAP

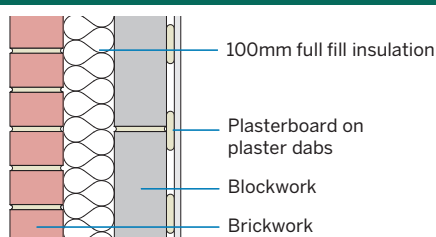
will probably need to be much closer to the notional value of 0.18W/m²K. For extensions to existing dwellings, the maximum allowable external wall u-value is 0.18W/m²K.

Partial Fill Insulation - Brick Outer Leaf



Inner Leaf Block	Insulation	Thickness	Int. Finish	U-Value
Celcon Standard	Kingspan Kooltherm K108	75mm	PB on Dabs	0.18W/m ² K
Med. Density Block	Kingspan Kooltherm K108	80mm	PB on Dabs	0.18W/m ² K

Full Fill Insulation - Brick Outer Leaf



Inner Leaf Block	Insulation	Thickness	Int. Finish	U-Value
Celcon Standard	Isover CWS 32	140mm	PB on Dabs	0.18W/m ² K
Med. Density Block	Isover CWS 32	170mm	PB on Dabs	0.18W/m ² K





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The required u-values can be easily achieved using H+H aircrete blocks. When compared to aggregate blocks, lower u-values or a reduction in the thickness of insulation can be realised. Aircrete

also meets the requirements of Part E of The Building Regulations and features in the Robust Details Handbook.

Partial Fill Insulation - Block Outer Leaf

	Ext. Finish	Outer Leaf Block	Inner Leaf Block	Insulation	Thickness	U-Value
	20mm Render	Celcon Standard	Celcon Standard	Kingspan Kooltherm K108	65mm	0.18W/m ² K
	20mm Render	Med. Density Block	Celcon Standard	Kingspan Kooltherm K108	70mm	0.18W/m ² K
	20mm Render	Med. Density Block	Med. Density Block	Kingspan Kooltherm K108	80mm	0.18W/m ² K

External Insulation - 215mm Thick Solid Block Leaf

	Ext. Finish	Outer Leaf Block	Inner Leaf Block	Thickness	Int. Finish	U-Value
	20mm Render	Celcon Standard	Kingspan Kooltherm K5	80mm	PB on Dabs	0.18W/m ² K
	20mm Render	Med. Density Block	Kingspan Kooltherm K5	100mm	PB on Dabs	0.18W/m ² K



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For sales enquiries or to find your local stockist please contact
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Technical

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