

Thermal insulation

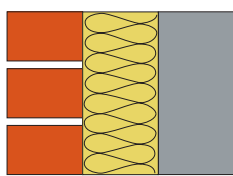
Ash GP blocks can be used to satisfy the requirements of Part L of the Building Regulations.

Presented are the U-values for a range of wall constructions based on 100mm Ash GP blocks in conjunction with full and partial cavity insulation. The outer leaf is facing brick, but a rendered block outer leaf will usually achieve at least the same U-value

For constructions not shown please contact our Technical Department (tel 01842 810678) who will be pleased to provide confirmation of performance.



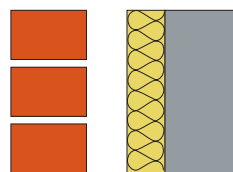
Full Cavity Fill and 100mm Ash GP blocks



U-values (W/m²K)

Cavity fill type	12.5mm plaster-board on dabs	13mm lightweight plaster
	Internal finish	
100mm DriTherm Cavity Slab 32 Ultimate	0.26	0.27
100mm DriTherm Cavity Slab 34 Super	0.28	0.29
100mm Isover CWS 32	0.26	0.27
100mm Isover CWS 36	0.29	0.30
100mm Xtratherm Cavity Therm	0.19	0.19
100mm Kingspan Kooltherm K106	0.17	0.18
125mm DriTherm Cavity Slab 32 Ultimate	0.22	0.22
125mm DriTherm Cavity Slab 34 Super	0.23	0.24
125mm Isover CWS 32	0.22	0.22
125mm Isover CWS 36	0.24	0.25
125mm Xtratherm Cavity Therm	0.15	0.15

Partial Cavity Fill and 100mm Ash GP blocks



U-values (W/m²K)

Cavity fill type	12.5mm plaster-board on dabs	13mm lightweight plaster
	Internal finish	
50mm Celotex CW4000	0.28	0.29
50mm Kingspan Kooltherm K108	0.24	0.25
60mm Celotex CW4000	0.25	0.25
60mm Kingspan Kooltherm K108	0.21	0.22
75mm Celotex CW4000	0.21	0.22
75mm Kingspan Kooltherm K108	0.18	0.19

Notes to tables:

1. The U-values shown are based on the use of various proprietary insulation products. Alternative products can be used, provided they can achieve an equivalent thermal resistance (m²K/W).
2. Wall ties are assumed to be stainless steel with a cross-sectional area of no more than 12.5mm² for structural cavities up to 125mm wide.
3. The suitability of full fill cavity insulation materials will depend on exposure conditions and should be confirmed by the designer. For partial cavity fill, a 50mm residual should be maintained. In some cases it may be possible to reduce the cavity width to a minimum of 25mm. The insulation manufacturer should be consulted for guidance.