

What is a U Value?

A U Value is a measurement of heat loss in a building element such as a wall, floor or roof. With walls, it measures the heat transfer from the internal to the external skin through a square metre of wall area incorporating all the elements used in the design of the wall.

This means that the higher the U value the worse the thermal performance of the building envelope.

Please refer to the current Building Regulations for required U Values for walls

Graphite Enhanced Expanded Polystyrene - Thermal Conductivity 0.032W/mK

Thickness	225mm Brickwork	300mm Stonework	215mm Blockwork
50mm	0.49	0.53	0.46 W/m ² K
60mm	0.43	0.45	0.41
70mm	0.38	0.40	0.36
80mm	0.33	0.35	0.32
90mm	0.30	0.32	0.29
100mm	0.28	0.29	0.27
110mm	0.26	0.27	0.25
120mm	0.24	0.24	0.23
130mm	0.22	0.23	0.21
140mm	0.21	0.21	0.20
150mm	0.19	0.20	0.19



Mineral Wool - Thermal Conductivity 0.036W/mK

Thickness	225mm Brickwork	300mm Stonework	215mm Blockwork
50mm	0.54	0.59	0.51 W/m ² K
60mm	0.47	0.50	0.44
70mm	0.42	0.44	0.40
80mm	0.37	0.39	0.36
90mm	0.33	0.35	0.32
100mm	0.31	0.32	0.30
110mm	0.28	0.29	0.27
120mm	0.26	0.27	0.26
130mm	0.24	0.25	0.24
140mm	0.23	0.24	0.22
150mm	0.22	0.22	0.21



All values are approximate and JUB Systems UK Ltd recommend that a full U Value and Condensation Risk Analysis is undertaken.

