



### APPLICATION OVERVIEW

External wall insulation involves the installation of an insulating layer to the external fabric of an existing or new building and is usually finished with a render coat.

Important issues when specifying an external wall insulation solution include the level of thermal performance to be achieved, which finish is the most suitable and the reaction to fire classification of the insulation.

Our Rock Mineral Wool insulation for external wall provides thermal and acoustic performance as well as being non-combustible.

### RECOMMENDED PRODUCT

- **Rocksilksl® EWI Slab** (see page 128)

### WHY MINERAL WOOL?

- Mineral Wool provides the best combination of thermal, fire safety and acoustic performance.
- Using a breathable Mineral Wool solution allows moisture vapour to pass through the construction to outside, removing the risk of condensation.



## TYPICAL U-VALUES

### USING ROCKSILK® EWI SLAB - REFURBISHMENT

Thickness (mm)	U-value (W/m <sup>2</sup> K)	
	225mm solid brick wall (0.77 W/mK)	215mm solid block wall (0.45 W/mK)
200*	0.17	0.16
180*	0.18	0.18
160*	0.20	0.20
140*	0.23	0.22
120	0.26	0.25
100	0.31	0.29

\*Thicknesses above 120mm are bespoke and subject to availability and minimum order quantities. Contact us for more details.

### USING ROCKSILK® EWI SLAB - NEW BUILD

Thickness (mm)	U-value (W/m <sup>2</sup> K)		
	215mm solid block wall (0.34 W/mK)	215mm solid block wall (0.19 W/mK)	215mm solid block wall (0.16 W/mK)
200*	0.16	0.15	0.14
180*	0.17	0.16	0.15
160*	0.19	0.17	0.17
140*	0.21	0.19	0.19
120	0.24	0.22	0.21
100	0.28	0.25	0.23

\*Thicknesses above 120mm are bespoke and subject to availability and minimum order quantities. Contact us for more details.

For any U-value calculations for alternative construction build-ups, please contact our Technical Support Team on 01744 766 666 or visit our online tool at [knaufinsulation.co.uk/uvalue-calculator](https://knaufinsulation.co.uk/uvalue-calculator)

For written U-value calculations, please email details of your full construction build-up to [technical.uk@knaufinsulation.com](mailto:technical.uk@knaufinsulation.com) and we will respond accordingly to meet your requirements.