

# CORNERSTONE INSULATING RENDER

Thermal Conductivity

Nov. 2018



## Cornerstone Insulating Render Insulation Calculations

The following calculations are performed in accordance with BS EN ISO 6949 using a thermal conductivity of 2.79 W/mK for a granite wall of varied thicknesses and a measured value of 0.123 W/mK for the Cornerstone Insulating Render;

Render Thickness (mm)	Wall Thickness (mm)							
	250	300	350	400	450	500	550	600
0	3.8	3.6	3.4	3.2	3.0	2.9	2.7	2.6
15	2.6	2.5	2.4	2.3	2.2	2.1	2	2.0
25	2.2	2.1	2.0	1.9	1.9	1.8	1.8	1.7
50	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.3
75	1.2	1.1	1.1	1.1	1.1	1.0	1.0	1.0

The standard is in our opinion inappropriate; for a 600mm thick solid wall of **any** mineralogy they assume 2.6 W/mK. In real life measurements from SPAB it has been shown to be anywhere between 1.5 and 6.2 W/mK for a 600mm thick wall depending on mineralogy and building method. For Granite walls in Cornwall we have experimental data showing a typical value between 4 and 5 W/mK.

## CORNERSTONE READY MIXED MORTARS & RENDERS

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