CORNERSTONE
INSULATING RENDER
Thermal Conductivity

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CORNERSTONE™
PROTECTING THE PAST & PRESENT

Cornerstone Insulating Render Insulation Calculations

The following calculations are performed in accordance Rd Sap, with the assumed U Value of the wall being 2.1 and using a measured thermal conductivity of 0.123 W/mK for the Cornerstone Insulating Render;

	Wall Thickness (mm)							
Render Thickness (mm)	250	300	350	400	450	500	550	600
0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
15	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
25	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52
50	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
75	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92

Whilst we appreciate that RdSap is intended for use where the entire wall build up is unknown and offers a standard figure for all specifiers to work to, the standard is in our opinion inappropriate; This standardised figure does not allow for the varied depths of a wall and in real life measurements from SPAB it has been shown that the K Value can 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.