

PROMINIUM

Thermal Performance of External Wall Cladding System

The table below shows the thermal performance of the **PROMINIUM** external wall cladding system for a variety of stud spacing and glass wool insulation type combinations. Refer to the building fabric parts of section J in the NCC Volume 1 for wall requirements of a specific building.

Cladding panel	Tophat	Thermal break	Wall wrap	Steel stud	Glass wool insulation between studs	Stud spacing (mm)								Internal lining
						600		450		400		300		
						Total R (m ² .K/W)								
Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer							
PROMINIUM panel with Z-angles	PROBOND 50x35x0.75BMT @ 600 cts.	R0.2 at each stud & tophat intersection	Enviroseal CW wall wrap	89x0.55 BMT	None	0.42	0.40							10mm plasterboard
					R1.5	1.66	1.52	1.58	1.45	1.54	1.41	1.43	1.32	
					R2.0	1.96	1.81	1.83	1.69	1.77	1.64	1.62	1.50	
					R2.2	2.07	1.92	1.92	1.78	1.86	1.72	1.68	1.57	
					R2.5	2.22	2.07	2.04	1.91	1.97	1.84	1.77	1.66	
					R2.7	2.31	2.17	2.12	1.99	2.04	1.91	1.82	1.71	
				89x1.15 BMT	None	0.42	0.39							10mm plasterboard
					R1.5	1.59	1.45	1.49	1.36	1.44	1.32	1.33	1.22	
					R2.0	1.86	1.71	1.71	1.58	1.65	1.52	1.48	1.37	
					R2.2	1.95	1.80	1.79	1.65	1.72	1.59	1.54	1.43	
					R2.5	2.08	1.94	1.89	1.76	1.81	1.69	1.61	1.50	
					R2.7	2.16	2.02	1.96	1.83	1.87	1.74	1.65	1.54	
				150x1.15 BMT	None	0.42	0.39							10mm plasterboard
					R1.5	1.57	1.55	1.49	1.47	1.45	1.43	1.35	1.32	
					R2.0	1.92	1.78	1.79	1.66	1.73	1.60	1.57	1.46	
					R2.2	2.04	1.87	1.88	1.74	1.81	1.67	1.64	1.52	
					R2.5	2.19	2.01	2.01	1.85	1.93	1.77	1.72	1.59	
					R2.7	2.29	2.10	2.08	1.92	2.00	1.84	1.78	1.64	
				R4.0	2.78	2.59	2.47	2.30	2.34	2.18	2.03	1.89		