

Thermal R Value Ratings

Timber Frame Construction					
Panel Thickness	Vertical Cavity Spacer	R Value with Wall Insulation (R2.0 Glasswool)		R Value without Wall Insulation	
		Summer	Winter	Summer	Winter
60mm	15mm	3.69	3.90	2.16	2.28
75mm	25mm	4.12	4.36	2.57	2.71
100mm	25mm	4.77	5.04	3.22	3.38

Timber Frame Construction					
Panel Thickness	Horizontal Top Hat	R Value with Wall Insulation (R2.0 Glasswool)		R Value without Wall Insulation	
		Summer	Winter	Summer	Winter
60mm	25mm or 35mm	3.73	3.92	2.18	2.28
75mm	25mm or 35mm	4.13	4.33	2.57	2.69
100mm	25mm or 35mm	4.78	5.01	3.22	3.37

Steel Frame Construction					
Panel Thickness	Vertical Cavity Spacer	R Value with Wall Insulation (R2.0 Glasswool)		R Value without Wall Insulation	
		Summer	Winter	Summer	Winter
60mm	15mm	3.59	3.80	2.10	2.22
75mm	25mm	3.98	4.21	2.52	2.65
100mm	25mm	4.65	4.91	3.16	3.33

Steel Frame Construction					
Panel Thickness	Horizontal Top Hat	R Value with Wall Insulation (R2.0 Glasswool)		R Value without Wall Insulation	
		Summer	Winter	Summer	Winter
60mm	25mm or 35mm	3.59	3.77	2.11	2.21
75mm	25mm or 35mm	4.00	4.20	2.50	2.61
100mm	25mm or 35mm	4.67	4.90	3.14	3.29

The above results are combined by area weighting & isothermal planes method to deduce **Overall Surface "TOTAL R"** to AS/NZS 4859 Parts 1 & 2: 2018.

Exsulite R-Values are calculated on M Grade EPS manufacture to Australian Standard 1366.3 with a conductivity value of 0.0383 W/m2.K. as a total walling system from plasterboard to coating.

*Thermal Assessment report can be provided upon request