



LOW RISE EXTERNAL WALLS THERMAL INSULATION

The Table below presents Total R-values in accordance with AS/NZS 4859.1 incorporating the effects of thermal bridging. These values are equally applicable to all building types.

Table - Nasahi® External Wall System R-Values.

NAsaHI® PANELS THICKNESS (MM)	BATTEN DEPTH (MM)	STRUCTURAL FRAME		BULK INSULATION (R-VALUE)	INTERNAL LINING	TOTAL R-VALUE (THERMALLY BRIDGED) (M ² .K/W)	
		TYPE & SPACING	STUD SIZE			WINTER	SUMMER
50 & 62	16, 24 or 35	Timber at 600cts	70x35	-	10mm plasterboard	R1.49	R1.44
				R2.00		R2.66	R2.51
			90x45	R2.50		R3.01	R2.87
				R3.00		R3.33	R3.22
75	16, 24 or 35	Timber at 600cts	70x35	-	10mm plasterboard	R1.68	R1.65
				R2.00		R2.87	R2.72
			90x45	R2.50		R3.23	R3.09
				R3.00		R3.56	R3.44
50 & 62	16, 24 or 35	Timber at 490cts	70x35	-	10mm plasterboard	R1.48	R1.44
				R2.00		R2.61	R2.47
			90x45	R2.50		R2.94	R2.81
				R3.00		R3.23	R3.13
75	16, 24 or 35	Timber at 490cts	70x35	-	10mm plasterboard	R1.68	R1.65
				R2.00		R2.82	R2.68
			90x45	R2.50		R3.16	R3.03
				R3.00		R3.46	R3.35
50 & 62	16, 24 or 35	Steel at 600cts	76x35x0.55BMT	-	10mm plasterboard	R1.39	R1.35
				R2.00		R2.24	R2.13
			92x45x0.55BMT	R2.50		R2.48	R2.38
				R3.00		R2.69	R2.61
75	16, 24 or 35	Steel at 600cts	76x35x0.55BMT	-	10mm plasterboard	R1.59	R1.56
				R2.00		R2.51	R2.39
			92x45x0.55BMT	R2.50		R2.78	R2.67
				R3.00		R3.02	R2.93
50 & 62	16, 24 or 35	Steel at 450cts	76x35x0.55BMT	-	10mm plasterboard	R1.37	R1.33
				R2.00		R2.15	R2.05
			92x45x0.55BMT	R2.50		R2.35	R2.27
				R3.00		R2.35	R2.46
75	16, 24 or 35	Steel at 450cts	76x35x0.55BMT	-	10mm plasterboard	R1.58	R1.55
				R2.00		R2.42	R2.31
			92x45x0.55BMT	R2.50		R2.66	R2.56
				R3.00		R2.86	R2.79

Reference Document: James M Fricker, Report No. i449cm, Dated 25th April 2020.