



HIGH RISE EXTERNAL WALLS THERMAL PERFORMANCE

The thermal performance of the Nasahi® High-rise External Wall System has been determined in accordance with AS/NZS 4859.1. The table below lists the thermal performance for various systems.

Table - Thermal performance of Nasahi External wall systems

SYSTEM DESCRIPTION	BULK INSULATION	ALL WALL (BRIDGED)			
		TOTAL R, M ² -K/W		TOTAL U, M ² -K/W	
		WINTER	SUMMER	WINTER	SUMMER
BARE 50mm NASAHI® PANEL (4% M.C.) SYSTEM	None	R0.39	R0.39		
50mm NASAHI® PANEL (4% M.C.) SYSTEM 16mm batten cavity Steel studs@600 cts. 10mm plasterboard internal lining	None	R1.39*	R1.35*	U0.72*	U0.74*
	R2.00	R2.24	R2.13	U0.45	U0.47
	R2.50	R2.48	R2.38	U0.40	U0.42
	R3.00	R2.69	R2.61	U0.37	U0.38
BARE 62mm NASAHI® PANEL (4% M.C.) SYSTEM	None	R0.48	R0.48		
62mm NASAHI® PANEL (4% M.C.) SYSTEM 16mm batten cavity Steel studs@600 cts. 10mm plasterboard internal lining	None	R1.49*	R1.46*	U0.67*	U0.68*
	R2.00	R2.38	R2.26	U0.42	U0.44
	R2.50	R2.63	R2.52	U0.38	U0.40
	R3.00	R2.85	R2.77	U0.35	U0.36
BARE 75mm NASAHI® PANEL (4% M.C.) SYSTEM	None	R0.59	R0.59		
75mm NASAHI® PANEL (4% M.C.) SYSTEM 16mm batten cavity Steel studs@600 cts. 10mm plasterboard internal lining	None	R1.59*	R1.56*	U0.63*	U0.64*
	R2.00	R2.51	R2.39	U0.40	U0.42
	R2.50	R2.78	R2.61	U0.36	U0.38
	R3.00	R3.02	R2.93	U0.33	U0.34

Notes:

1. 24mm or 35mm battens will give similar results.
2. *Reflective air space into stud frame.

Reference Document: James M Fricker, Report No. i449_Dmx/s, Dated 25th April 2020.