

75mm Helix® 450-500kg/m <sup>3</sup> System					Insulation path		Overall		Overall	
Assumes 75mm Helix® thermal resistance is R0.602 m <sup>2</sup> .K/W for 4.0% moisture content							(Pine Framing 12.13% area)		(Steel Framing 5.8% area)	
Stud Frame	Top Hat Cavity	Wall thickness mm	Batts	Wall Wrap	Summer	Winter	Summer	Winter	Summer	Winter
64mm Stud Frame	24mm	173	None	None	1	1	1	1	1	1
		173	None	Thermoseal Wall Wrap XP Plus	1.9	2	1.9	2	1.9	2
		173	None	Polyair Performa 4.0 XHD	2.2	2.2	2.2	2.2	2.2	2.2
		173	70mm Bradford Soundscreen Batts R2.0	Thermoseal Wall Wrap XP	3.1	3.3	3.1	3.3	3.1	3.3
		173	70mm Bradford Soundscreen Batts R2.0	ProctorWrap RW	2.8	2.9	2.8	2.9	2.8	2.9
	35mm	184	None	None	1	1	1	1	1	1
		184	None	Thermoseal Wall Wrap XP Plus	1.9	2	1.9	2	1.9	2
		184	None	Polyair Performa 4.0 XHD	2.2	2.2	2.2	2.2	2.2	2.2
		184	70mm Bradford Soundscreen Batts R2.0	Thermoseal Wall Wrap XP	3.1	3.3	3.1	3.3	3.1	3.3
		184	70mm Bradford Soundscreen Batts R2.0	ProctorWrap RW	2.8	2.9	2.8	2.9	2.8	2.9
70mm Stud Frame	24mm	179	None	None	1	1	1	1	1	1
		179	None	Thermoseal Wall Wrap XP Plus	2	2.1	2	2.1	2	2.1
		179	None	Polyair Performa 4.0 XHD	2.2	2.2	2.2	2.2	2.2	2.2
		179	70mm Bradford Soundscreen Batts R2.0	Thermoseal Wall Wrap XP	3.3	3.4	3.3	3.4	3.3	3.4
		179	70mm Bradford Soundscreen Batts R2.0	ProctorWrap RW	2.9	3.1	2.9	3.1	2.9	3.1
	35mm	190	None	None	1	1	1	1	1	1
		190	None	Thermoseal Wall Wrap XP Plus	1.9	2	1.9	2	1.9	2
		190	None	Polyair Performa 4.0 XHD	2.2	2.2	2.2	2.2	2.2	2.2
		190	70mm Bradford Soundscreen Batts R2.0	Thermoseal Wall Wrap XP	3.3	3.4	3.3	3.4	3.3	3.4
		190	70mm Bradford Soundscreen Batts R2.0	ProctorWrap RW	2.9	3.1	2.9	3.1	2.9	3.1
90mm or 92mm Stud Frame	24mm	199	None	None	1	1	1	1	1	1
		199	None	Thermoseal Wall Wrap XP Plus	2	2	2	2	2	2
		199	None	Polyair Performa 4.0 XHD	2.2	2.2	2.2	2.2	2.2	2.2
		199	90mm Bradford Gold Wall Batts R2.0	Thermoseal Wall Wrap XP	3.2	3.4	3.2	3.4	3.2	3.4
		199	90mm Bradford Gold Wall Batts R2.5	ProctorWrap RW	3.4	3.6	3.4	3.6	3.4	3.6
		199	90mm Bradford Polymax Walls Batts R2.5	ProctorWrap RW	3.4	3.6	3.4	3.6	3.4	3.6
		199	90mm Bradford Gold Wall Batts R2.7	ProctorWrap RW	3.6	3.8	3.6	3.8	3.6	3.8
	35mm	210	None	None	1	1	1	1	1	1
		210	None	Thermoseal Wall Wrap XP Plus	1.9	2	1.9	2	1.9	2
		210	None	Polyair Performa 4.0 XHD	2.2	2.2	2.2	2.2	2.2	2.2
		210	90mm Bradford Gold Wall Batts R2.0	Thermoseal Wall Wrap XP	3.2	3.4	3.2	3.4	3.2	3.4
		210	90mm Bradford Gold Wall Batts R2.5	ProctorWrap RW	3.4	3.6	3.4	3.6	3.4	3.6
		210	90mm Bradford Polymax Walls Batts R2.5	ProctorWrap RW	3.4	3.6	3.4	3.6	3.4	3.6
		210	90mm Bradford Gold Wall Batts R2.7	ProctorWrap RW	3.6	3.8	3.6	3.8	3.6	3.8
Notes:	· Above all for 10mm Plasterboard Plus lining.									
	· The above results are for 75mm Helix (dry density 450-500kg/m <sup>3</sup> ) external wall system with assumed thermal resistance of R0.60 m <sup>2</sup> .K/W for 4.0% moisture content.									
	· For 6mm skim render, Total R-values are R0.04 more than those above.									