

50mm Helix® 450-500kg/m ³ System					Insulation path		Overall		Overall	
Assumes 50mm Helix® thermal resistance is R0.431 m ² .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	148	None	None	0.7	0.7	0.7	0.7	0.7	0.7
		148	None	Thermoseal Wall Wrap XP Plus	1.6	1.7	1.6	1.7	1.6	1.7
		148	None	Polyair Performa 4.0 XHD	1.9	1.9	1.9	1.9	1.9	1.9
		148	70mm Bradford Soundscreen Batts R2.0	Thermoseal Wall Wrap XP	2.8	3	2.8	3	2.8	3
		148	70mm Bradford Soundscreen Batts R2.0	ProctorWrap RW	2.5	2.6	2.5	2.6	2.5	2.6
	35mm	159	None	None	0.7	0.7	0.7	0.7	0.7	0.7
		159	None	Thermoseal Wall Wrap XP Plus	1.6	1.7	1.6	1.7	1.6	1.7
		159	None	Polyair Performa 4.0 XHD	1.9	1.9	1.9	1.9	1.9	1.9
		159	70mm Bradford Soundscreen Batts R2.0	Thermoseal Wall Wrap XP	2.8	3	2.8	3	2.8	3
		159	70mm Bradford Soundscreen Batts R2.0	ProctorWrap RW	2.7	2.9	2.7	2.9	2.7	2.9
70mm Stud Frame	24mm	154	None	None	0.7	0.7	0.7	0.7	0.7	0.7
		154	None	Thermoseal Wall Wrap XP Plus	1.7	1.7	1.7	1.7	1.7	1.7
		154	None	Polyair Performa 4.0 XHD	1.9	1.9	1.9	1.9	1.9	1.9
		154	70mm Bradford Soundscreen Batts R2.0	Thermoseal Wall Wrap XP	3	3.1	3	3.1	3	3.1
		154	70mm Bradford Soundscreen Batts R2.0	ProctorWrap RW	2.6	2.8	2.6	2.8	2.6	2.8
	35mm	165	None	None	0.7	0.7	0.7	0.7	0.7	0.7
		165	None	Thermoseal Wall Wrap XP Plus	1.6	1.7	1.6	1.7	1.6	1.7
		165	None	Polyair Performa 4.0 XHD	1.9	1.9	1.9	1.9	1.9	1.9
		165	70mm Bradford Soundscreen Batts R2.0	Thermoseal Wall Wrap XP	3	3.1	3	3.1	3	3.1
		165	70mm Bradford Soundscreen Batts R2.0	ProctorWrap RW	2.6	2.8	2.6	2.8	2.6	2.8
90mm or 92mm Stud Frame	24mm	174	None	None	0.7	0.7	0.7	0.7	0.7	0.7
		174	None	Thermoseal Wall Wrap XP Plus	1.6	1.7	1.6	1.7	1.6	1.7
		174	None	Polyair Performa 4.0 XHD	1.9	1.9	1.9	1.9	1.9	1.9
		174	90mm Bradford Gold Wall Batts R2.0	Thermoseal Wall Wrap XP	2.9	3.1	2.9	3.1	2.9	3.1
		174	90mm Bradford Gold Wall Batts R2.5	ProctorWrap RW	3.1	3.3	3.1	3.3	3.1	3.3
		174	90mm Bradford Polymax Walls Batts R2.5	ProctorWrap RW	3.1	3.3	3.1	3.3	3.1	3.3
		174	90mm Bradford Gold Wall Batts R2.7	ProctorWrap RW	3.3	3.5	3.3	3.5	3.3	3.5
	35mm	185	None	None	0.7	0.7	0.7	0.7	0.7	0.7
		185	None	Thermoseal Wall Wrap XP Plus	1.6	1.7	1.6	1.7	1.6	1.7
		185	None	Polyair Performa 4.0 XHD	1.9	1.9	1.9	1.9	1.9	1.9
		185	90mm Bradford Gold Wall Batts R2.0	Thermoseal Wall Wrap XP	2.9	3.1	2.9	3.1	2.9	3.1
		185	90mm Bradford Gold Wall Batts R2.5	ProctorWrap RW	3.1	3.3	3.1	3.3	3.1	3.3
		185	90mm Bradford Polymax Walls Batts R2.5	ProctorWrap RW	3.1	3.3	3.1	3.3	3.1	3.3
		185	90mm Bradford Gold Wall Batts R2.7	ProctorWrap RW	3.3	3.5	3.3	3.5	3.3	3.5
Notes:	· Above all for 10mm Plasterboard Plus lining.									
	· The above results are for 50mm Helix (dry density 450-500kg/m ³) external wall system with assumed thermal resistance of R0.431 m ² .K/W for 4.0% moisture content.									
	· For 6mm skim render, Total R-values are R0.04 more than those above.									