

COMPARISON DATA SHEET

FOAM SALES' RIGID BOARD INSULATION MATERIALS

R' VALUE (THERMAL RESISTANCE) AT SPECIFIED THICKNESSES (MM)

Thickness (mm)	Expanded Polystyrene (EPS) SL, 13.5kg/m3	Expanded Polystyrene (EPS) VH, 28kg/m3	Extruded Polystyrene (XPS) 32kg/m3	Rigid Polyurethane (Rigid PU) 35kg	Polyisocyanurate (PIR) 40kg/m3	Phenolic Foam (Saviro) 45kg/m3
10 mm	0.25	0.29	0.36	0.43	0.46	0.40
15 mm	0.37	0.44	0.54	0.65	0.69	0.59
20 mm	0.50	0.58	0.71	0.87	0.93	0.79
25 mm	0.62	0.73	0.89	1.08	1.16	1.00
30 mm	0.75	0.88	1.07	1.30	1.38	1.18
40 mm	1.00	1.17	1.43	1.74	1.86	1.58
50 mm	1.25	1.45	1.79	2.17	2.32	1.97
75 mm	1.87	2.18	2.68	3.26	3.49	2.96
100 mm	2.50	2.90	3.57	4.35	4.64	3.95
150 mm	3.75	4.35	5.36	6.52	6.97	5.93
200 mm	5.00	5.80	7.14	8.69	9.30	7.91
250 mm	6.25	7.25	8.93	10.87	11.60	9.88
300 mm	7.50	8.70	10.71	13.04	13.92	11.86
	Thermal Conductivity (W/m.K) 0.040	Thermal Conductivity (W/m.K) 0.034	Thermal Conductivity (W/m.K) 0.028	Thermal Conductivity (W/m.K) 0.023	Thermal Conductivity (W/m.K) 0.0215	Thermal Conductivity (W/m.K) 0.0253
	R' Value (Thermal Resistance) = Thickness in meters / Thermal Conductivity					
	SPECIFICATION NAMES FOR ARCHITECTURAL AND BUILDING PLANS					
	Foam Sales' EPS Expanded Polystyrene SL Grade 13.5kg/m3	Foam Sales' EPS Expanded Polystyrene VH Grade 28kg/m3	Foam Sales' Extruded Polystyrene XPS Blue Board	Foam Sales' Rigid Polyurethane Board (PU) 35kg/m3	Foam Sales' Polyisocyanurate Board (PIR) 40kg/m3	Foam Sales' Saviro Phenolic Foam Board 45kg/m3