

R Value: It indicates the thermal insulation capacity of a layer of material, the higher R is, the greater the resistance experienced by the passage of heat and the better it will insulate the material.

Valor U: A measure of heat gain or loss through a material due to the difference between indoor and outdoor air temperatures. Heat transfer coefficient. Its is measured in $W/(m^2 \cdot K)$, watt per square meter, Kelvin, and the lower it si, the better insulating performance

R value and U value for PIR foam according ASTM C518

35°F Mean Temp (1.67°C) 55°F a 15°F **ASTM C518**

Factor K = PIR 0.127 BTU•in/ft²•hr•F

		0.38 "	1 "	1.25 "	1.50 "	1 5/8	2 "	2.5 "	3 "	4 "	5 "	6 "	8 "
U	W/m ² ·K	1.92304	0.72114	0.57691	0.48076	0.44378	0.36057	0.28846	0.24038	0.18028	0.14423	0.12019	0.09014
	BTU/H·ft ² ·F	0.3387	0.1270	0.1016	0.0847	0.0782	0.0635	0.0508	0.0423	0.0318	0.0254	0.0212	0.0159
R	m ² ·K/W	0.5200	1.3867	1.7334	2.0800	2.2534	2.7734	3.4667	4.1601	5.5468	6.9335	8.3202	11.0936
	H·ft ² ·F/BTU	2.95	7.87	9.84	11.81	12.80	15.75	19.69	23.62	31.50	39.37	47.24	62.99

R value and U value for PUR foam according ASTM C518

35°F Mean Temp (1.67°C) 55°F a 15°F **ASTM C518**

Factor K = PUR 0.13 BTU•in/ft²•hr•F

		0.38 "	1 "	1.25 "	1.50 "	1 5/8	2 "	2.5 "	3 "	4 "	5 "	6 "	8 "
U	W/m ² ·K	1.96846	0.73817	0.59054	0.49212	0.45426	0.36909	0.29527	0.24606	0.18454	0.14763	0.12303	0.09227
	BTU/H·ft ² ·F	0.3467	0.1300	0.1040	0.0867	0.0800	0.0650	0.0520	0.0433	0.0325	0.0260	0.0217	0.0163
R	m ² ·K/W	0.5080	1.3547	1.6934	2.0320	2.2014	2.7094	3.3867	4.0641	5.4188	6.7735	8.1282	10.8375
	H·ft ² ·F/BTU	2.88	7.69	9.62	11.54	12.50	15.38	19.23	23.08	30.77	38.46	46.15	61.54

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