

ASTM C578
EPS THERMAL INSULATION PERFORMANCE REQUIREMENTS

Property	Units	ASTM Test	Type XI	Type I	Type VIII	Type II	Type IX	Type XIV	Type XV
Density	pcf, minimum	C303	0.70	0.90	1.15	1.35	1.80	2.40	3.00
Thermal Resistance Values (R)	Per inch thickness at 75° F (23.9° C), min.	C518	3.1	3.6	3.8	4.0	4.2	4.2	4.3
Compressive Resistance 10% Deformation or Yield	psi, min.	D1621	5.0	10.0	13.0	15.0	25.0	40.0	60.0
Flexural Strength	psi, min.	C203	10	25	30	35	50	60	75
Water Vapor Permeability	perm-in, max.	E96	5.0	5.0	3.5	3.5	2.5	2.5	2.5
Water Absorption By Total Immersion	% by vol., max.	C272	4.0	4.0	3.0	3.0	2.0	2.0	2.0

EPS Insulation may be manufactured to meet or exceed the requirements of ASTM C578, *Standard Specification for Rigid Cellular, Polystyrene Thermal Insulation*, and applicable building codes.

For more information about ASTM C578, visit <http://www.astm.org/Standards/C578.htm>.