

Expanded Polystyrene (EPS) Thermal Insulation Performance Requirements

PROPERTY	UNITS	ASTM TEST	TYPE I	TYPE VIII	TYPE II	TYPE IX	TYPE XIV
Density	pcf, minimum	C303	0.90	1.15	1.35	1.80	2.40
Thermal Resistance Values (R)	Per inch thickness At 75°F (23.9°C)	C518	3.60	3.80	4.00	4.20	4.20
Compressive Resistance 10% Deformation	psi, minimum	D1621	10	13	15	25	40
Flexural Strength	psi, minimum	C203	25	30	35	50	60
Water Vapor Permeability	perm-in; maximum	E96	5.0	3.5	3.5	2.0	2.5
Water Absorption By Total Immersion	% by Vol Max	C272	4.0	3.0	3.0	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—08b](#) or other standards visit www.astm.org.



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