



PHYSICAL PROPERTIES OF EXPANDED POLYSTYRENE										ASTM C578
Property			Type XI	Type I	Type VIII	Type II	Type IX	Type XIV	Type XV	
Nominal Density		lb/ft ³ (kg/m ³)	0.75 (12)	1.00 (16)	1.25 (20)	1.5 (24)	2.00 (32)	2.50 (40)	3.00 (48)	
Minimum Density		lb/ft ³ (kg/m ³)	0.70 (12)	.90 (15)	1.15 (18)	1.35 (22)	1.8 (29)	2.40 (38)	3.00 (48)	
Thermal Resistance R-Value per inch	ASTM C518	25°F	3.50	4.35	4.55	4.76	5.00	5.05	5.10	
		40°F	3.30	4.17	4.25	4.55	4.76	4.85	5.05	
		75°F	3.10	3.85	3.92	4.17	4.35	4.50	4.60	
Compressive Strength @ 10% deformation, min.	ASTM D1621	psi (kPa)	5.0 (35)	10.0 (69)	13.0 (90)	15.0 (104)	25.0 (173)	40.0 (276)	60.0 (414)	
Flexural Strength, min.	ASTM C203	psi (kPa)	10.0 (69)	25.0 (173)	30.0 (208)	35.0 (242)	50.0 (345)	60.0 (414)	75.0 (517)	
Water Vapor Permeance (max. perm., 1")	ASTM E96		5.0	5.0	3.5	3.5	2.5	2.5	2.5	
Water Absorption (max. % vol.)	ASTM C272		4.0	4.0	3.0	3.0	2.0	2.0	2.0	
Capillarity			none	none	none	none	none	none	none	
Flame Spread	ASTM E84		< 25	< 25	< 25	< 25	< 25	< 25	< 25	
Smoke Developed	ASTM E84		< 450	< 450	< 450	< 450	< 450	< 450	< 450	
Max. Service Temperature	Long Term	°F	167	167	167	167	167	167	167	
	Intermittent	°F	180	180	180	180	180	180	180	

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