



POLYSTYRENE INSULATION

Polystyrene is a plastic derivative that is made from various petroleum-based products.

Expanded polystyrene (EPS) is marketed as an insulation material in the form of EPS rigid foam.

It is one of the most common materials used in roofing because in addition to having good thermo-acoustic properties, it is affordable and easy to transport and install, creating significant saving for composite panel roofing projects.



BOARD THICKNESS		R-VALUE		
mm	in	Dens. 12 kg/m ³	Dens. 15 kg/m ³	Dens. 20 kg/m ³
25	1"	3.59	3.84	4.06
32	1.25"	4.6	4.91	5.19
38	1.5"	5.46	5.83	6.16
50	2"	7.19	7.67	8.11
63	2.5"	9.06	9.67	10.22
75	3"	10.78	11.51	12.17
95	3.5"	13.66	14.58	15.41
100	4"	14.38	15.35	16.22
125	5"	17.97	19.18	20.28
150	6"	21.56	23.02	24.34
175	7"	25.16	26.86	28.39
200	8"	28.75	30.69	32.45
Fire resistance	Complies with: DIN 4102 Class B1, ASTM E84 and IBC 2009 Section 2603, NBC 3.1.14.2.1 and CAN/ULC-S126			
Flame spread index	Complies with: DIN 4102 Class B1, ASTM E84 and IBC 2009 Section 2603, NBC 3.1.14.2.1 and CAN/ULC-S126			
Smoke spread index	10, according to ASTM E84			
Temperature range	Between 15 and 40, depending on thickness, according to ASTM E84			
Production standard	-100 °C–75 °C, ASTM C1258, up to 85 °C for short periods			
Water absorption	According to ASTM C578			
Mold resistance	After being submerged for 1 month, less than 4% by volume			
	Resistant			

