

EPS Foam Boards (Expanded Polystyrene)

SEC. 07240 Submittal Sheet

Expanded Polystyrene EPS foam boards are an integral part of an EIFS System. Available in various thicknesses, flat or grooved, EPS foam boards provide the insulative qualities as well as drainage capabilities for moisture release systems.

Insulation Board Properties

Test Method

Values

Moisture Resistance

Water Vapor Transmission	ASTM E-96	2.0 - 5.0 perms
Water Absorption	ASTM C-272	Less than 4% by Volume

Strength Properties

Compressive 10% Deflection	ASTM D-1621	10 - 14 psi
Flexural Strength	ASTM C-203	25 - 30 psi
Tensile Strength	ASTM D-1623	16 - 20 psi

Surface Burning Characteristics

Flame Spread	ASTM E-84	<25
Fuel Contributed	ASTM E-84	Not Determinable
Smoke Development	ASTM E-84	<450

Thermal Properties (1" thick board)

Thermal Resistance @ 75°	ASTM C-177-C518	R=3.6ft ² -f-h/BTU
Thermal Resistance @ 40°	ASTM C-177-C418	R=4.0ft ² -f-h/BTU
Thermal Resistance @ 40°	ASTM C-177-C518	U=0.25
Coefficient of thermal expansion	ASTM D-696	.000035 in/in-F

Density	ASTM C-303	.9 LBS/ cu ft min.
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Insulation Thickness

"R" Value	1"	2"	3"	4"
	3.9	7.7	11.6	15.4




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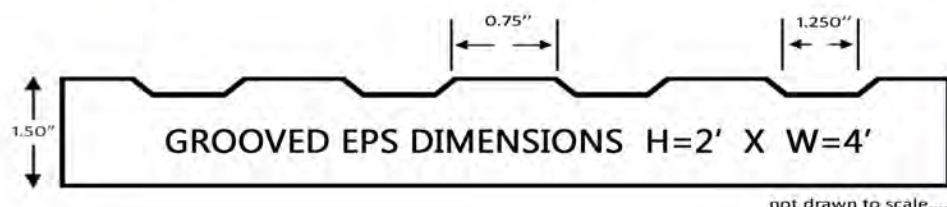
Manufacture Requirements

- Radco #1182 Approved.
- Only 100% virgin expandable polystyrene resin is to be used. The use of any regrind material is strictly forbidden.
- Density must be 1" or Greater.
- Molded blocks shall be air dried for a minimum of six weeks (less than .5% residual pentane) prior to cutting into finished boards: +/- 1/32 inches.
- Over entire board of a maximum size (2ft x 4ft ASTM C-550) length, width thickness and squareness: +/- 1/16 inches. Flatness over entire board +/- 1/32 inches.

	Thickness	Pieces/Bundle	Coverage	
 FLAT	1/2 Inch	36 pieces	288 sf	
	3/4 Inch	27 pieces	216 sf	
	1 inch	18 pieces	144 sf	
	1 1/2 inch	12 pieces	96 sf	
	 GROOVED	2 inch	8 pieces	72 sf
		3 inch	6 pieces	48 sf
4 inch		4 pieces	36 sf	
	6 inch	3 pieces	24 sf	

Limitations:

- Not to be left exposed for >30 Days.
- If yellowing occurs, sand surface until yellowing is removed.
- Any boards less than 3/4" after sanding must be replaced.
- Do not store in direct sunlight.



*Note: Boards to be installed in compliance to IBC 1705.15 section 1704.14.1 of the 2009 IBC.



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