A.I.M. Radiant Heating

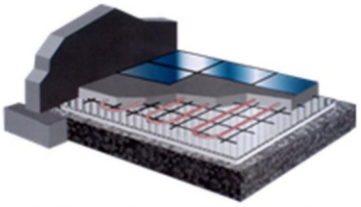
Modern Heating for Modern Living!

Radiant Heating Systems for Residential and Commercial Applications since 1990

Technical Data Sheet

Description:

Inferno Insulation Board has all of the most widely used insulation materials combined into one product. Consisting of 2 mil polyethylene sheet bonded to an industrial-strength ¼" bubble-pack, a sheet of metalized aluminum all laminated to a sheet of 2 lbs. density expanded polystyrene (EPS) foam. The polyethylene is a barrier against both methane and radon. This particular Inferno Insulation Board applies to all forms of heat transfer. It is able to reflect heat towards the living space and is able to prevent heat loss through conduction and heat transfer.



Inferno Insulation Board Application

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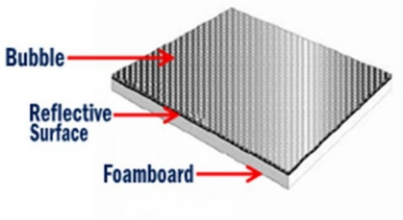

Inferno Insulation Board

Installation:

1) Lay down vapor barrier per usual method
2) Lay down Inferno Board on ground, bubble side up
3) Butt the seams
4) Seal seams with Inferno Tape
5) Install radiant tubing and pour the concrete as usual

Available Sizes:

- 4' x 8' x 1.25"
- 4' x 8' x 2.25"

Physical Properties	Test Method	Bubble - FOIL - Foam	
Nominal Thickness	—	1.24"	2.5"
Emissivity	ASTM C1371	43%	
Reflectivity	ASTM E903	57%	
Thermal Resistance @ 75°F (24°C)	ASTM C518	R-5.0	R-10
Max. Temperature (Continuous)	—	Up to 167°F	
Temperature Range (Intermittent)	—	Up to 180°F	
Compressive Strength (min.) @ 10%	ASTM D1621	25psi	
Flexural Strength (Min.)	ASTM C203	55psi	
Tensile Strength	ASTM D1623	23psi	
Water Vapor Permeance (Max.)	ASTM E96	< 0.02perms	
Water Absorption (% by Volume Max.)	ASTM C272	Less than 2.0%	
Dimensional Stability (Max.)	ASTM D2126	2.0% Linear Change	
Radon and Methane Permeability	—	Impermeable	
Fungal and Bacterial Resistance	ASTM C1338	Does not support growth	

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6591 Route 23, Acra, NY 12405
Toll Free: 888.773.4564 Fax: 518.622.2203
email: sales@aimradiantheating.com