INSUL-TARP®

Under-Slab Insulation & Vapor Barrier

Division 0700

What is Insul-Tarp?

a Blanket Insulation

Insul-Tarp® is an under-slab insulation/vapor barrier designed to provide a thermal break and moisture barrier between the slab and grade. When used with radiant heated slab applications, Insul-Tarp will increase the performance of the system by redirecting heat back into the slab.

Insul-Tarp's patented, lightweight design integrates closed cell foam and an aluminum reflective material with a protective poly coating, all within three, thin layers. The durable poly coating protects the insulation material from potentially damaging surfaces and is impermeable to moisture, allowing for a consistent thermal break beneath the slab. The superior physical characteristics and overall design of Insul-Tarp make it the ideal product for insulating under concrete slabs in residential, commercial and agricultural radiant heating systems.

Insul-Tarp can also reduce condensation, mold and degradation by controlling water vapor migration, and it is also an effective radon barrier.

Insul-Tarp is stocked in nominal sizes* of 5.5' X 48' (#INSULTARP-S) and 11' X 48' (#INSULTARP-L) rolls.

*Roll sizes and actual coverage are approximate.

Insul-Tarp Specifications

PROPERTIES	TEST METHOD	VALUE
Weight Per 150 sq. ft.		12.5 lbs.
Tensile Strength and Elongation (Bubble Pack)	ASTM D 412-98	136 psi
Tensile Strength (Cross Woven Polyethylene)	ASTM D 751 (Grab)	45 lbf/in.
Compression Set	ASTM D 3575-00	4.3%
Compression Set	ASTM D 3575-10-16	3.2%
Bursting Strength (Bubble Pack)	ASTM D 751-00 (Ball Burst)	95.1 lbf
Bursting Strength (Bubble Pack)	ASTM D 751-73 (Mullen)	90 psi
Tear Strength (Cross Woven Polyethylene)	ASTM D 1922 (Tongue Tear)	28 lbs (Warp) 33 lbs (Fill)
Maximum Use Temperature		180° F
Minimum Use Temperature		-60° F
Water Vapor Permeance	ASTM E 96	.002 perms CLASS A

What you should know about R-Values

R means resistance to heat flow. The higher the R-Value, the greater the insulating power. To get the marked R-Value, it is essential that this insulation be installed properly.

Compare insulation R-Values before you buy. Other factors to consider before buying: the amount of insulation you need depends mainly on the climate you live in; your fuel savings from insulation will depend on the climate, the type and size of your house, the amount of insulation already in your house, your fuel use patterns and family size; if you buy too much insulation, it will cost you more than what you will save on fuel.

Insul-Tarp R-Value

Material R-Value of Insul-Tarp (¾" material only) at a 75° mean temperature regulated by Federal Guidelines 16 CFR 460.5:

Mean Temperature .....75°F
Average Thermal Resistance (R) ...5.9 hr-ft²-°F/Btu as per ASTM C 518-04

The System R-Value was tested in a concrete slab configuration consisting of a 4" concrete slab, ¾" Insul-Tarp insulation (½" compressed), 2" gravel and 1" sand. The total slab configuration was approximately 8". The System R-Value at a 75° mean temperature:

Mean Temperature .....75°F
Average Thermal Resistance (R) ...6.8 hr-ft²-°F/Btu as per ASTM C 518-02

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