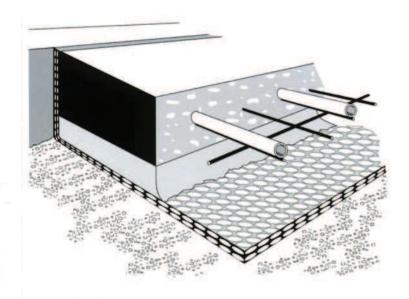
TUFF-STUFF '

BELOW HEATED CONCRETE FLOORS For a High-Strength Insulating Moisture Barrier



Typical Slab-On-Grade Installation

Special Features Include:

- Absolute Moisture Barrier Keeps heat-robbing ground moisture away from the concrete.
- Reduces Downward Heat Loss by Over 50% Exceeds the requirements of most HVAC load calcuation programs.
- Super-Strong 388 PSI Puncture Resistance Will support over 6" of concrete plus floor loads
- Total Over 19 mil Extruded Polyethylene Film Withstands rough handling by istallers and finishers.
- Air-Encapsulating Vacuum Formed Bubbles Results in a structure that will not delaminate.
- PET Coating Strengthens & Protects Foil Against Chemical Erosion TUFF-STUFF can be laid with the foil side up or down, whichever is most convenient.

TUFF-STUFF TECHNICAL DATA

SPECIFICATIONS:

Water vapor Transmission: Puncture Resistance:

Tensile Strength: Flame & Smoke Rating: System Thermal Resistance: Concrete (0.10 R/inch) Sand (0.40 R/inch) TUFF STUFF

Gravel (0.15 R/inch) Total R Value Insect and Fungi Resistant Rating 0.002 (Impermeable) 388 PSI

85-95 lb/sq. in. Class 1, Class A ASTM E 84

0.20 R (2 in.) 0.60 R (1.5 in.) 1.30 R 0.45 R (3 in.) 2.55 R (system) **Test Method ASTM E 96-95 ASTM F 1306** Fed. Test Std. 101C-Method 2031 **ASTM D 412**

ASHRAE Handbook ASHRAE Handbook ASTM C 518 ASHRAE Handbook

Proudly

made in

the USA

Typical Heated Slab Cross Section Concrete slab Heat tubes! Grade reinforcing mesh Sand/Gravel fill TUFF STUFF 2" Polystyrene Foam in 4' from perimeter (Code requirement) Foundation 2" Polystyrene Foam (R-10) to below frost line (Code requirement) May be located on the outside of the foundation Frost Line Important! This illustration is meant to show typical construction method and may or may not Footing meet local code requirements. Local building and mechanical codes always take precedence.



INNOVATIVE ENERGY, INC.

www.insul.net info@insul.net 800.776.3645

219,696,3639