

PATENT PENDING



# THERMO-SNAP™

by Benchmark Foam

## Simplifying the in-floor heat system

### Thermo-Snap™ insulated panels:

The traditional method of installing in-floor heat was time-consuming and costly for contractors and homeowners.

New **Thermo-Snap™** (patent pending) panels reduce labor and material costs with a tube management system built in to the EPS (expanded polystyrene) insulated panel.

- Pex tubes snap into manufactured pathways
- Tubes remain in place during concrete pour - no float or displacement
- Minimal staple usage means savings
- Quick, easy tube installation cuts labor costs
- Predetermined tube placement ensures even spacing and heating
- Accurate tube placement provides quick, professional appearance
- Easily trimmed to accommodate custom shapes
- Retains strong bond with concrete
- Acts as a stable thermal barrier to reduce heat loss
- Qualifies for green building programs, such as LEED



### Specifications:

- 2" thick, 4' x 4' standard panels with 1/2" or 5/8" tube pathways on 6" centers
- Can customize to specific panel and tube sizes
- Manufactured with certified EPS

*See reverse for technical data.*

# Thermo-Snap™ Technical Data

<b>Property</b>	<b>Units</b>	<b>ASTM Test</b>	<b>Values Meet or Exceed ASTM C578</b>	
Density, min.	lbs/ft <sup>3</sup>	C303 or D1622	1.25	
Thermal Resistance "R Value"	Two inches thick	C177 or C518	@ 40° F @ 75° F*	8.8 8.1
<b>Strength Properties, minimum</b>				
Compressive (@ 10% deformation)	psi	D1621		16.0
Flexural	psi	C203		30.0
<b>Moisture Resistance</b>				
Water Absorption (by total immersion, max.)	vol %	C272		3.0
Buoyancy Force	lbs/ft <sup>3</sup>			61.3
Oxygen index, min.	vol %	D696		24.0
Flame Spread @ 6"		UL® (BRYX)		20
Smoke Development		UL® (BRYX)		300

All values are based on data from Flint Hills Resources, NOVA Chemical Company and BASF Corporation.

\*Federal Trade Commission ruling: Use the 75° R-Value when calculating R-Values for residential construction (fact sheet available upon request).

## DESIGN CONSIDERATIONS:

**Flammability:** Like many construction materials, expanded polystyrene (EPS) is combustible. It should not be exposed to flame or other ignition sources. Current building code requirements should be met for adequate protection or separation from occupied areas.

**Solvent Exposure:** EPS is subject to attack by petroleum-based solvents and adhesives, and coal tar pitch products. Care should be taken to prevent EPS direct contact with these products and their vapors. Use only adhesives approved for EPS applications.

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