



Building *with* Technology means Building *for* Comfort



In-Floor Heating Insulation

INSULWORKS
*the only insulation system
specifically designed for
hydronic in-floor heating...*
unique insulation panel
spaces tubes evenly, reducing
labour and material costs
while conserving energy.

4'x4'





INSULWORKS, manufactured in Atlantic Canada by TRUEFOAM, is a unique insulation panel specially designed for hydronic in-floor heating applications. Its primary functions are to conserve energy and reduce material and labour costs.

INSULWORKS provides an efficient thermal barrier between the heating slab and the underlying ground. Also, in preventing the ground from becoming a linked "thermal bridge" to the slab, INSULWORKS permits fast and accurate room temperature response to temperature controllers. The use of INSULWORKS may also reduce the size and cost of system hardware.

Using INSULWORKS will reduce project costs and speed installation because it replaces the usual method of positioning tube by tying it to wire mesh. The tube is simply "stepped" into the INSULWORKS panels, saving a great deal of labour. The cost to purchase and install wire mesh may also be eliminated.

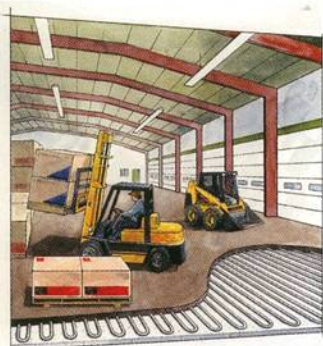
INSULWORKS is produced from Type 2 expanded polystyrene (EPS), a high density closed cell foam insulation. It is appropriate for use on and under ground and under concrete structures. EPS contains no harmful CFC or HCFC blowing agents and will not lose R-Value over time.

INSULWORKS can be used under slab-on-grade, in a sandwich slab application, in snow melt systems and other applications under concrete where radiant panel heating is required. INSULWORKS has been designed to support the weight of cast-in-place concrete, construction activity, working loads, machinery and heavy vehicle loading where the concrete slab has been designed for such purposes.

INSULWORKS is part of an integrated system of TRUEFOAM insulation products designed for cost effectiveness, durability and versatility. TRUEFOAM insulation products can substantially reduce heating costs while protecting the integrity and long-term comfort of your home.

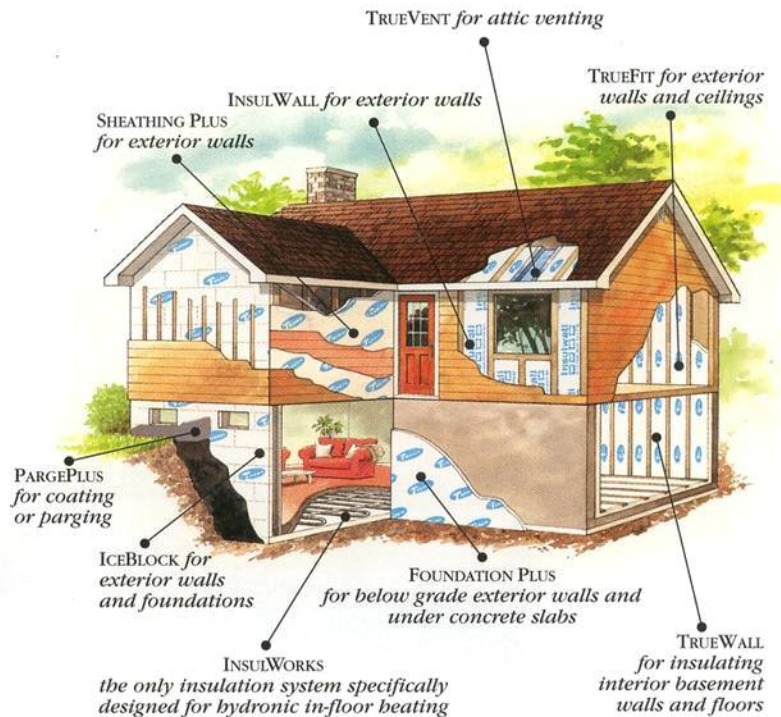
4'x4' panels manufactured in 1.5" and 2" thicknesses for .5" and .75" I.D. tubing with R-Values of 6 and 8 respectively. Other thicknesses and R-Values upon request.

Certified under the Warnock Hersey Third Party Certification Program to meet CAN/ULC-S-701-97 Type 2



INSULWORKS PERFORMANCE CHART

Physical Properties	Units Imperial	Units SI (Metrics)	ASTM Test Procedure	Values	
	R Value			Imperial	Metric
Thermal Resistance (min) (R-Value) at 75°F/24°C	hr.ft ² / BTU / 1 in.	hm ² °F / W/25mm	C-177-76 or C-518-76	4.00	0.70
Coefficient of Thermal expansion (max)	in/in/°F	m./m°C	D-696-79	3.5x10 ⁻⁵	6x10 ⁻⁵ C ⁻¹
Compressive strength (min) at 10% deformation	psi	k.PA	D-1621-73	16	110
Capillary Action	—	—	—	none	none
Water vapor permeance (max)	perm-in	ng/Pa.s.m ⁻²	E96-80	3.5	200
Water absorption % (max)	%	%	D 2842-69	4.0	4.0



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