

# RADIANT COMFORT™

## Hydronic Radiant In-Floor Insulation Panels

Job Name: \_\_\_\_\_

Job Location: \_\_\_\_\_

Product ID: \_\_\_\_\_

Contractor: \_\_\_\_\_

Date: \_\_\_\_\_

Notes: \_\_\_\_\_

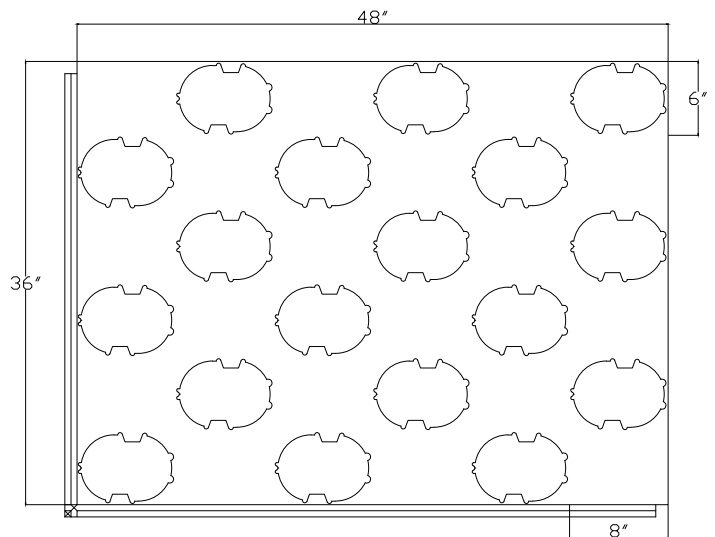
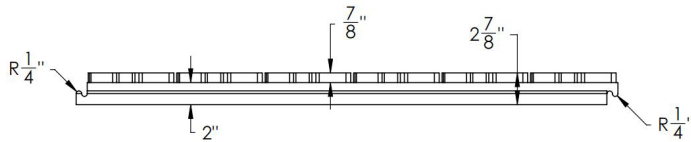
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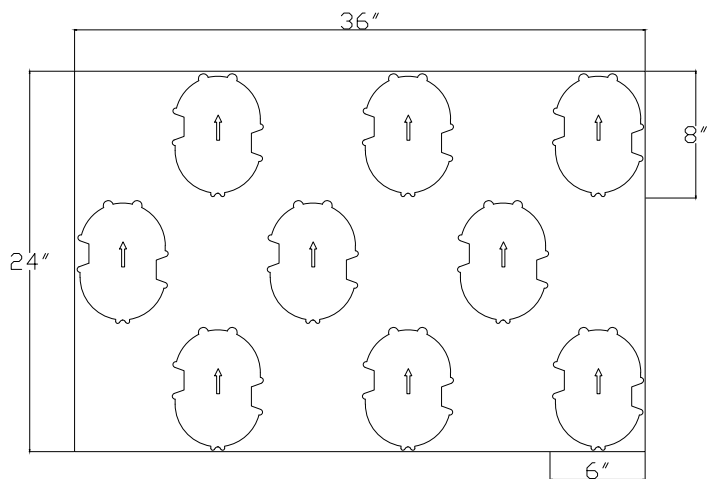
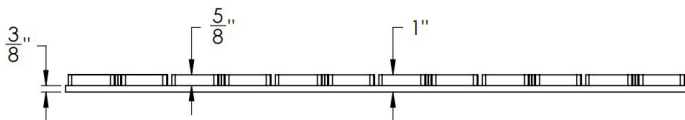
### New Construction Panel

Product R-value: 12 at 75°F mean temperature  
 Compressive Strength: 25 psi



### Retrofit Panel

Product R-value: 4.2 at 75°F mean temperature  
 Compressive Strength: 40 psi



**FOR INQUIRIES, PLEASE CONTACT KHART PANELS MARKETING LLC:**

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PROPERTY	TEST METHOD	PRODUCT ID	
		NEW CONSTRUCTION PANELS	RETROFIT PANELS
Panel Size	-	3' x 4'	2' x 3'
Panel Thickness	-	2-7/8"	1"
Tube Size	-	Accommodates up to 1" tube	Accommodates 1/2" tube
Panel Design	-	Interlocking edges	Flush edge
Compressive Strength (minimum psi) @ 10% Deformation	D1621	25 psi	40 psi
Compressive Strength (minimum psi) @ 1% Deformation	D1621	11 psi	15 psi
Product R-value (minimum) at 75°F mean temperature	C518	12	4.2
Product R-value (minimum) at 40°F mean temperature	C518	13.5	4.7
Product R-value (minimum) at 25°F mean temperature	C518	14	4.9
Flexural Strength (minimum psi)	C203	50	70
ASTM Classification	C578	Type II	Type XIV
Water Absorption % by volume, maximum after 24 hour immersion	C272	1.25	1.25
Water Vapor Permeance (perms)	Typical E96	1	2
Surface Burning- Flame Spread and Smoke Developed	E84	Flame Spread 20, Smoke Developed 400 (meets code)	
Maximum Use Temperature	-	Short Term (10-15 minutes) 180°F, Long Term 165°F	
Number of panels per 4' tall pallet	-	19 (228 ft <sup>2</sup> )	132 (792 ft <sup>2</sup> )
Weight of 4' tall pallet	-	95 pounds	130 pounds
Number of pallets per 48' trailer	-	64	68

Thermal Resistance: R means the resistance to heat flow. The higher the R-value, the greater the insulating power.

Radiant Comfort is elastic with 1-2% deformation. To prevent long term creep, 3:1 design safety factors for static loads of the 10% deformation values are recommended, or use the tested 1% values for design.

## CODE COMPLIANCE

Radiant Comfort insulation complies with the model building codes when properly installed:

- Surface Burning – UL BRYX.R16529
- Physical Properties – UL QORW.R16529
- ASTM C578

## INSTALLATION AND HANDLING

Refer to the Radiant Comfort Installation Guide for further installation and handling instruction.

## SAFETY

Dust generated from sanding or cutting Radiant Comfort should be avoided using a dust mask. Radiant Comfort insulation is combustible and the product should be protected from ignition sources such as open flames or welder's torch. Radiant Comfort requires a permanent separation of insulation from the interior of the building by a thermal barrier such as drywall, concrete or equivalent for fire safety.

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Hydronic Radiant In-Floor Insulation Panels