

# Heat Loss Details



**Project #: RH932**  
**Date: Apr 15, 2009**  
Prepared For: Thompson Toth

PexSupply  
Prepared By: Dipti C Phone: 888-757-4774 Email: dipti@pexsupply.com

## Project Summary

<b>Project #:</b>	RH932
<b>Project Name:</b>	Thompson Toth
<b>Location:</b>	US
<b>CloseDate:</b>	
<b>Engineer:</b>	
<b>Design Data Location:</b>	Richmond, Virginia
<b>Outdoor Temperature:</b>	18 °F
<b>Wind Speed:</b>	18 mph
<b>Total Area:</b>	1,423 ft²
<b>Construction Quality:</b>	Average
<b>RFH Glycol Level:</b>	100% Water
<b>Design Temp. Drop:</b>	20 °F (20 °F for all QuikTrak)
<b>Radiant Tubing Volume:</b>	12.3 gallons(US)
<b>Volume Water:</b>	12.3 gallons(US)
<b>Volume Glycol:</b>	0 gallons(US)
<b>Total-Components Load:</b>	7,671 Btu/hr
<b>Total Infiltration Load:</b>	10,396 Btu/hr
<b>Total Floor Downward Load:</b>	7,240 Btu/hr
<b>Total-Radiant Load:</b>	20,122 Btu/hr
<b>Total-Supplemental Load:</b>	0 Btu/hr
<b>Total-Project Heat Loss:</b>	27,362 Btu/hr

## Heat Loss Data

### Kitchen- Zone1 (First Floor)

<b>Total Area:</b>	210 ft²	<b>Components:</b>	965 Btu/hr
<b>Average Height:</b>	8 ft	<b>Infiltration:</b>	1,554 Btu/hr
<b>Volume:</b>	1,680 ft³	<b>Ceiling Upward:</b>	303 Btu/hr
<b>Air Changes:</b>	1 /hr	<b>Floor Downward:</b>	842 Btu/hr
<b>RoomTemperature:</b>	70 °F	<b>Total Heat Loss:</b>	3,664 Btu/hr
		<b>Supplemental:</b>	0 Btu/hr
		<b>Total Room Loss:</b>	3,664
		<b>Radiant to Room Load:</b>	2,822 Btu/hr
		<b>Unit Load:</b>	13.4 Btu/hr/ft²
		<b>Total Radiant Load:</b>	3,664 Btu/hr
		<b>Unit Load:</b>	17.4 Btu/hr/ft²

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## Concrete

<b>Total Area:</b>	210 ft <sup>2</sup>	<b>Downward Load:</b>	842 Btu/hr
<b>Unheated Area:</b>	57 ft <sup>2</sup>		
<b>Heated Area:</b>	153 ft <sup>2</sup>		
<b>Construction:</b>	Concrete		
<b>Cover Rv:</b>	0.5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Structure Rv:</b>	1 °F·ft <sup>2</sup> ·hr/Btu		
<b>Insulation Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Perimeter Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Edge Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Surface Temperature:</b>	79.2 °F		
<b>Design Temp. Drop:</b>	20 °F		

## Ceiling

<b>Total Area:</b>	210 ft <sup>2</sup>
<b>Unheated Area:</b>	210 ft <sup>2</sup>
<b>Heated Area:</b>	0 ft <sup>2</sup>
<b>Construction:</b>	Gypsum Wall board
<b>Cover Rv:</b>	0 °F·ft <sup>2</sup> ·hr/Btu
<b>Insulation Rv:</b>	35 °F·ft <sup>2</sup> ·hr/Btu
<b>Space Above Heated:</b>	No

## Other Components

Component	Length (ft)	Width/Height (ft)	Area (ft <sup>2</sup> )	Rv (°F·ft <sup>2</sup> ·hr/Btu)	Heat Loss (Btu/hr)
Wall-1	16	8	128	19	965
Door-1	3	7	21	2	546
Window-1	3	2	6	2	156
Net Wall			101	19	263

## Dining- Zone1 (First Floor)

<b>Total Area:</b>	93 ft <sup>2</sup>	<b>Components:</b>	1,132 Btu/hr
<b>Average Height:</b>	8 ft	<b>Infiltration:</b>	551 Btu/hr
<b>Volume:</b>	744 ft <sup>3</sup>	<b>Ceiling Upward:</b>	134 Btu/hr
<b>Air Changes:</b>	0.8 /hr	<b>Floor Downward:</b>	769 Btu/hr
<b>Room Temperature:</b>	70 °F	<b>Total Heat Loss:</b>	2,586 Btu/hr
		<b>Supplemental:</b>	0 Btu/hr
		<b>Total Room Loss:</b>	2,586
		<b>Radiant to Room Load:</b>	1,817 Btu/hr
		<b>Unit Load:</b>	19.5 Btu/hr/ft <sup>2</sup>
		<b>Total Radiant Load:</b>	2,586 Btu/hr
		<b>Unit Load:</b>	27.8 Btu/hr/ft <sup>2</sup>

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## Concrete

<b>Total Area:</b>	93 ft <sup>2</sup>	<b>Downward Load:</b>	769 Btu/hr
<b>Unheated Area:</b>	0 ft <sup>2</sup>		
<b>Heated Area:</b>	93 ft <sup>2</sup>		
<b>Construction:</b>	Concrete		
<b>Cover Rv:</b>	0.5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Structure Rv:</b>	1 °F·ft <sup>2</sup> ·hr/Btu		
<b>Insulation Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Perimeter Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Edge Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Surface Temperature:</b>	79.8 °F		
<b>Design Temp. Drop:</b>	20 °F		

## Ceiling

<b>Total Area:</b>	93 ft <sup>2</sup>
<b>Unheated Area:</b>	93 ft <sup>2</sup>
<b>Heated Area:</b>	0 ft <sup>2</sup>
<b>Construction:</b>	Gypsum Wall board
<b>Cover Rv:</b>	0 °F·ft <sup>2</sup> ·hr/Btu
<b>Insulation Rv:</b>	35 °F·ft <sup>2</sup> ·hr/Btu
<b>Space Above Heated:</b>	No

## Other Components

Component	Length (ft)	Width/Height (ft)	Area (ft <sup>2</sup> )	Rv (°F·ft <sup>2</sup> ·hr/Btu)	Heat Loss (Btu/hr)
Wall-1	20	8	160	19	1132
Door-1	5.1	6	30.6	2	796
Net Wall			129.4	19	336

## Living Rm- Zone1 (First Floor)

<b>Total Area:</b>	225 ft <sup>2</sup>	<b>Components:</b>	894 Btu/hr
<b>Average Height:</b>	8 ft	<b>Infiltration:</b>	1,666 Btu/hr
<b>Volume:</b>	1,800 ft <sup>3</sup>	<b>Ceiling Upward:</b>	325 Btu/hr
<b>Air Changes:</b>	1 /hr	<b>Floor Downward:</b>	845 Btu/hr
<b>RoomTemperature:</b>	70 °F	<b>Total Heat Loss:</b>	3,730 Btu/hr
		<b>Supplemental:</b>	0 Btu/hr
		<b>Total Room Loss:</b>	3,729
		<b>Radiant to Room Load:</b>	2,885 Btu/hr
		<b>Unit Load:</b>	12.8 Btu/hr/ft <sup>2</sup>
		<b>Total Radiant Load:</b>	3,729 Btu/hr
		<b>Unit Load:</b>	16.6 Btu/hr/ft <sup>2</sup>

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<b>Total Area:</b>	225 ft <sup>2</sup>	<b>Downward Load:</b>	845 Btu/hr
<b>Unheated Area:</b>	0 ft <sup>2</sup>		
<b>Heated Area:</b>	225 ft <sup>2</sup>		
<b>Construction:</b>	Concrete		
<b>Cover Rv:</b>	0.5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Structure Rv:</b>	1 °F·ft <sup>2</sup> ·hr/Btu		
<b>Insulation Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Perimeter Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Edge Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Surface Temperature:</b>	76.4 °F		
<b>Design Temp. Drop:</b>	20 °F		

## Ceiling

<b>Total Area:</b>	225 ft <sup>2</sup>
<b>Unheated Area:</b>	225 ft <sup>2</sup>
<b>Heated Area:</b>	0 ft <sup>2</sup>
<b>Construction:</b>	Gypsum Wall board
<b>Cover Rv:</b>	0 °F·ft <sup>2</sup> ·hr/Btu
<b>Insulation Rv:</b>	35 °F·ft <sup>2</sup> ·hr/Btu
<b>Space Above Heated:</b>	No

## Other Components

Component	Length (ft)	Width/Height (ft)	Area (ft <sup>2</sup> )	Rv (°F·ft <sup>2</sup> ·hr/Btu)	Heat Loss (Btu/hr)
Wall-1	16	8	128	19	894
Window-1	4	3	12	2	312
Window-2	4	3	12	2	312
Net Wall			104	19	270

## Den- Zone2 (First Floor)

<b>Total Area:</b>	278 ft <sup>2</sup>	<b>Components:</b>	2,142 Btu/hr
<b>Average Height:</b>	8 ft	<b>Infiltration:</b>	2,058 Btu/hr
<b>Volume:</b>	2,224 ft <sup>3</sup>	<b>Ceiling Upward:</b>	402 Btu/hr
<b>Air Changes:</b>	1 /hr	<b>Floor Downward:</b>	1,896 Btu/hr
<b>Room Temperature:</b>	70 °F	<b>Total Heat Loss:</b>	6,498 Btu/hr
		<b>Supplemental:</b>	0 Btu/hr
		<b>Total Room Loss:</b>	6,498
		<b>Radiant to Room Load:</b>	4,602 Btu/hr
		<b>Unit Load:</b>	16.6 Btu/hr/ft <sup>2</sup>
		<b>Total Radiant Load:</b>	6,498 Btu/hr
		<b>Unit Load:</b>	23.4 Btu/hr/ft <sup>2</sup>

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## Concrete

<b>Total Area:</b>	278 ft <sup>2</sup>	<b>Downward Load:</b>	1,896 Btu/hr
<b>Unheated Area:</b>	0 ft <sup>2</sup>		
<b>Heated Area:</b>	278 ft <sup>2</sup>		
<b>Construction:</b>	Concrete		
<b>Cover Rv:</b>	0.5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Structure Rv:</b>	1 °F·ft <sup>2</sup> ·hr/Btu		
<b>Insulation Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Perimeter Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Edge Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Surface Temperature:</b>	78.3 °F		
<b>Design Temp. Drop:</b>	20 °F		

## Ceiling

<b>Total Area:</b>	278 ft <sup>2</sup>
<b>Unheated Area:</b>	278 ft <sup>2</sup>
<b>Heated Area:</b>	0 ft <sup>2</sup>
<b>Construction:</b>	Gypsum Wall board
<b>Cover Rv:</b>	0 °F·ft <sup>2</sup> ·hr/Btu
<b>Insulation Rv:</b>	35 °F·ft <sup>2</sup> ·hr/Btu
<b>Space Above Heated:</b>	No

## Other Components

Component	Length (ft)	Width/Height (ft)	Area (ft <sup>2</sup> )	Rv (°F·ft <sup>2</sup> ·hr/Btu)	Heat Loss (Btu/hr)
Wall-1	49	8	392	19	2142
Window-1	0	0	48	2	1248
Net Wall			344	19	894

## Master Bedroom/Bath- Zone3 (First Floor)

<b>Total Area:</b>	219 ft <sup>2</sup>	<b>Components:</b>	1,165 Btu/hr
<b>Average Height:</b>	8 ft	<b>Infiltration:</b>	1,621 Btu/hr
<b>Volume:</b>	1,752 ft <sup>3</sup>	<b>Ceiling Upward:</b>	316 Btu/hr
<b>Air Changes:</b>	1 /hr	<b>Floor Downward:</b>	1,182 Btu/hr
<b>RoomTemperature:</b>	70 °F	<b>Total Heat Loss:</b>	4,284 Btu/hr
		<b>Supplemental:</b>	0 Btu/hr
		<b>Total Room Loss:</b>	4,284
		<b>Radiant to Room Load:</b>	3,102 Btu/hr
		<b>Unit Load:</b>	14.2 Btu/hr/ft <sup>2</sup>
		<b>Total Radiant Load:</b>	4,284 Btu/hr
		<b>Unit Load:</b>	19.6 Btu/hr/ft <sup>2</sup>

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<b>Total Area:</b>	219 ft <sup>2</sup>	<b>Downward Load:</b>	1,182 Btu/hr
<b>Unheated Area:</b>	15 ft <sup>2</sup>		
<b>Heated Area:</b>	204 ft <sup>2</sup>		
<b>Construction:</b>	Concrete		
<b>Cover Rv:</b>	0.5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Structure Rv:</b>	1 °F·ft <sup>2</sup> ·hr/Btu		
<b>Insulation Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Perimeter Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Edge Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Surface Temperature:</b>	77.6 °F		
<b>Design Temp. Drop:</b>	20 °F		

## Ceiling

<b>Total Area:</b>	219 ft <sup>2</sup>
<b>Unheated Area:</b>	219 ft <sup>2</sup>
<b>Heated Area:</b>	0 ft <sup>2</sup>
<b>Construction:</b>	Gypsum Wall board
<b>Cover Rv:</b>	0 °F·ft <sup>2</sup> ·hr/Btu
<b>Insulation Rv:</b>	35 °F·ft <sup>2</sup> ·hr/Btu
<b>Space Above Heated:</b>	No

## Other Components

Component	Length (ft)	Width/Height (ft)	Area (ft <sup>2</sup> )	Rv (°F·ft <sup>2</sup> ·hr/Btu)	Heat Loss (Btu/hr)
Wall-1	29	8	232	19	1165
Window-1	0	0	24	2	624
Net Wall			208	19	541

## Kids Room1- Zone3 (First Floor)

<b>Total Area:</b>	167 ft <sup>2</sup>	<b>Components:</b>	957 Btu/hr
<b>Average Height:</b>	8 ft	<b>Infiltration:</b>	1,236 Btu/hr
<b>Volume:</b>	1,336 ft <sup>3</sup>	<b>Ceiling Upward:</b>	241 Btu/hr
<b>Air Changes:</b>	1 /hr	<b>Floor Downward:</b>	1,046 Btu/hr
<b>RoomTemperature:</b>	70 °F	<b>Total Heat Loss:</b>	3,480 Btu/hr
		<b>Supplemental:</b>	0 Btu/hr
		<b>Total Room Loss:</b>	3,481
		<b>Radiant to Room Load:</b>	2,434 Btu/hr
		<b>Unit Load:</b>	14.6 Btu/hr/ft <sup>2</sup>
		<b>Total Radiant Load:</b>	3,481 Btu/hr
		<b>Unit Load:</b>	20.8 Btu/hr/ft <sup>2</sup>

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<b>Total Area:</b>	167 ft <sup>2</sup>	<b>Downward Load:</b>	1,046 Btu/hr
<b>Unheated Area:</b>	0 ft <sup>2</sup>		
<b>Heated Area:</b>	167 ft <sup>2</sup>		
<b>Construction:</b>	Concrete		
<b>Cover Rv:</b>	0.5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Structure Rv:</b>	1 °F·ft <sup>2</sup> ·hr/Btu		
<b>Insulation Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Perimeter Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Edge Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Surface Temperature:</b>	77.3 °F		
<b>Design Temp. Drop:</b>	20 °F		

## Ceiling

<b>Total Area:</b>	167 ft <sup>2</sup>
<b>Unheated Area:</b>	167 ft <sup>2</sup>
<b>Heated Area:</b>	0 ft <sup>2</sup>
<b>Construction:</b>	Gypsum Wall board
<b>Cover Rv:</b>	0 °F·ft <sup>2</sup> ·hr/Btu
<b>Insulation Rv:</b>	35 °F·ft <sup>2</sup> ·hr/Btu
<b>Space Above Heated:</b>	No

## Other Components

Component	Length (ft)	Width/Height (ft)	Area (ft <sup>2</sup> )	Rv (°F·ft <sup>2</sup> ·hr/Btu)	Heat Loss (Btu/hr)
Wall-1	28	8	224	19	957
Window-1	0	0	16	2	416
Net Wall			208	19	541

## Kids Room2- Zone3 (First Floor)

<b>Total Area:</b>	109 ft <sup>2</sup>	<b>Components:</b>	416 Btu/hr
<b>Average Height:</b>	8 ft	<b>Infiltration:</b>	807 Btu/hr
<b>Volume:</b>	872 ft <sup>3</sup>	<b>Ceiling Upward:</b>	157 Btu/hr
<b>Air Changes:</b>	1 /hr	<b>Floor Downward:</b>	480 Btu/hr
<b>RoomTemperature:</b>	70 °F	<b>Total Heat Loss:</b>	1,860 Btu/hr
		<b>Supplemental:</b>	0 Btu/hr
		<b>Total Room Loss:</b>	1,860
		<b>Radiant to Room Load:</b>	1,380 Btu/hr
		<b>Unit Load:</b>	12.7 Btu/hr/ft <sup>2</sup>
		<b>Total Radiant Load:</b>	1,860 Btu/hr
		<b>Unit Load:</b>	17.1 Btu/hr/ft <sup>2</sup>

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## Concrete

<b>Total Area:</b>	109 ft <sup>2</sup>	<b>Downward Load:</b>	480 Btu/hr
<b>Unheated Area:</b>	0 ft <sup>2</sup>		
<b>Heated Area:</b>	109 ft <sup>2</sup>		
<b>Construction:</b>	Concrete		
<b>Cover Rv:</b>	0.5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Structure Rv:</b>	1 °F·ft <sup>2</sup> ·hr/Btu		
<b>Insulation Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Perimeter Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Edge Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Surface Temperature:</b>	76.3 °F		
<b>Design Temp. Drop:</b>	20 °F		

## Ceiling

<b>Total Area:</b>	109 ft <sup>2</sup>
<b>Unheated Area:</b>	109 ft <sup>2</sup>
<b>Heated Area:</b>	0 ft <sup>2</sup>
<b>Construction:</b>	Gypsum Wall board
<b>Cover Rv:</b>	0 °F·ft <sup>2</sup> ·hr/Btu
<b>Insulation Rv:</b>	35 °F·ft <sup>2</sup> ·hr/Btu
<b>Space Above Heated:</b>	No

## Other Components

Component	Length (ft)	Width/Height (ft)	Area (ft <sup>2</sup> )	Rv (°F·ft <sup>2</sup> ·hr/Btu)	Heat Loss (Btu/hr)
Wall-1	11	8	88	19	416
Window-1	0	0	8	2	208
Net Wall			80	19	208

## Bath- Zone3 (First Floor)

<b>Total Area:</b>	41 ft <sup>2</sup>	<b>Components:</b>	0 Btu/hr
<b>Average Height:</b>	8 ft	<b>Infiltration:</b>	303 Btu/hr
<b>Volume:</b>	328 ft <sup>3</sup>	<b>Ceiling Upward:</b>	59 Btu/hr
<b>Air Changes:</b>	1 /hr	<b>Floor Downward:</b>	60 Btu/hr
<b>RoomTemperature:</b>	70 °F	<b>Total Heat Loss:</b>	423 Btu/hr
		<b>Supplemental:</b>	0 Btu/hr
		<b>Total Room Loss:</b>	423
		<b>Radiant to Room Load:</b>	363 Btu/hr
		<b>Unit Load:</b>	8.9 Btu/hr/ft <sup>2</sup>
		<b>Total Radiant Load:</b>	423 Btu/hr
		<b>Unit Load:</b>	10.3 Btu/hr/ft <sup>2</sup>

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<b>Total Area:</b>	41 ft <sup>2</sup>	<b>Downward Load:</b>	60 Btu/hr
<b>Unheated Area:</b>	16 ft <sup>2</sup>		
<b>Heated Area:</b>	25 ft <sup>2</sup>		
<b>Construction:</b>	Concrete		
<b>Cover Rv:</b>	0.5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Structure Rv:</b>	1 °F·ft <sup>2</sup> ·hr/Btu		
<b>Insulation Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Perimeter Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Edge Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Surface Temperature:</b>	77.3 °F		
<b>Design Temp. Drop:</b>	20 °F		

## Ceiling

<b>Total Area:</b>	41 ft <sup>2</sup>
<b>Unheated Area:</b>	41 ft <sup>2</sup>
<b>Heated Area:</b>	0 ft <sup>2</sup>
<b>Construction:</b>	Gypsum Wall board
<b>Cover Rv:</b>	0 °F·ft <sup>2</sup> ·hr/Btu
<b>Insulation Rv:</b>	35 °F·ft <sup>2</sup> ·hr/Btu
<b>Space Above Heated:</b>	No

## Other Components

Component	Length (ft)	Width/Height (ft)	Area (ft <sup>2</sup> )	Rv (°F·ft <sup>2</sup> ·hr/Btu)	Heat Loss (Btu/hr)
Wall-1	0	8	0	19	0
Net Wall			0	19	0

## Hallway- Zone2 (First Floor)

<b>Total Area:</b>	81 ft <sup>2</sup>	<b>Components:</b>	0 Btu/hr
<b>Average Height:</b>	8 ft	<b>Infiltration:</b>	600 Btu/hr
<b>Volume:</b>	648 ft <sup>3</sup>	<b>Ceiling Upward:</b>	117 Btu/hr
<b>Air Changes:</b>	1 /hr	<b>Floor Downward:</b>	119 Btu/hr
<b>RoomTemperature:</b>	70 °F	<b>Total Heat Loss:</b>	836 Btu/hr
		<b>Supplemental:</b>	0 Btu/hr
		<b>Total Room Loss:</b>	836
		<b>Radiant to Room Load:</b>	717 Btu/hr
		<b>Unit Load:</b>	8.9 Btu/hr/ft <sup>2</sup>
		<b>Total Radiant Load:</b>	836 Btu/hr
		<b>Unit Load:</b>	10.3 Btu/hr/ft <sup>2</sup>

# Heat Loss Details



**Project #: RH932**  
**Date: Apr 15, 2009**  
 Prepared For: Thompson Toth

PexSupply  
 Prepared By: Dipti C Phone: 888-757-4774 Email: dipti@pexsupply.com

## Concrete

<b>Total Area:</b>	81 ft <sup>2</sup>	<b>Downward Load:</b>	119 Btu/hr
<b>Unheated Area:</b>	0 ft <sup>2</sup>		
<b>Heated Area:</b>	81 ft <sup>2</sup>		
<b>Construction:</b>	Concrete		
<b>Cover Rv:</b>	0.5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Structure Rv:</b>	1 °F·ft <sup>2</sup> ·hr/Btu		
<b>Insulation Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Perimeter Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Edge Rv:</b>	5 °F·ft <sup>2</sup> ·hr/Btu		
<b>Surface Temperature:</b>	74.4 °F		
<b>Design Temp. Drop:</b>	20 °F		

## Ceiling

<b>Total Area:</b>	81 ft <sup>2</sup>
<b>Unheated Area:</b>	81 ft <sup>2</sup>
<b>Heated Area:</b>	0 ft <sup>2</sup>
<b>Construction:</b>	Gypsum Wall board
<b>Cover Rv:</b>	0 °F·ft <sup>2</sup> ·hr/Btu
<b>Insulation Rv:</b>	35 °F·ft <sup>2</sup> ·hr/Btu
<b>Space Above Heated:</b>	No

## Other Components

Component	Length (ft)	Width/Height (ft)	Area (ft <sup>2</sup> )	Rv (°F·ft <sup>2</sup> ·hr/Btu)	Heat Loss (Btu/hr)
Wall-1	0	8	0	19	0
Net Wall			0	19	0