



# The Green Products Company

*"Building A Greener Tomorrow!"*

A DIVISION OF ACOUSTICAL SURFACES, INC.

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## QuietWarmth®

### GREEN QUALITIES:

- Energy Savings
- Low Cost Installation
- Low Maintenance
- Even Heat Distribution
- 77% Pre-Consumer Recycled Content

### CERTIFICATIONS/ PERFORMANCE RATING

- SCS Certified Indoor Advantage Gold
- SCS Certified 77% Recycled Content
- Passed Section 01350 VOC Test
- Qualifies for CHPS (Collaborative for High Performance Schools)

### DESCRIPTION:

QuietWarmth® is a new and exciting product from the manufacturers of QuietWalk® underlayment. We've taken our acoustical and insulating technology and combined them with ThermoSoft FiberThermics® heating elements to create a radiant heat system ideally suited for floating wood, laminate floors, Avaire Porcelain and SnapStone® tiles. QuietWarmth® not only deadens impact sound from your hard surface flooring, but it also makes the surface toasty warm, and assists with heating your room.

Electric floor heating is more efficient than electric baseboard heat, and can save homeowners 30 to 50% on their energy bill. QuietWarmth® is a supplemental heating system that is certified safe for combustible wood and laminate floors, as well as ceramic tile installations by Electrical Testing Laboratories (ETL approved). Our heating elements are non-metallic, and have an inherent safety feature that automatically shuts down the circuit if needed.

When used with a floating floor, there is no easier or cost-effective radiant heat system for the do-it-yourself handyman to install. QuietWarmth® replaces typical floating floor underlayments, making the total overall thickness from sub floor to floor surface only around 3/8". Plus there's no need to bury the system in mortar or concrete. However, QuietWarmth® can also be adhered to the floor if necessary for glue-down wood, or traditional ceramic tile floors.

- There is no easier radiant floor heating system to install under laminates. Simply roll out QuietWarmth pads over the sub-floor. Duct-tape pads together at the seams and fill-in unheated spaces with non-heated Insulayment or any generic underlayment. Then lay your laminate floor per manufacturer instructions. The heating elements are pre-spaced and factory-mounted on the underlayment pad. No hot water pipes to worry about or thick electrical cables to bury in cement or raise your floor.
- Quiet Warmth is ideal for adding safe, low cost warmth to your kitchen, family room, basement or any other room in your home. Even, gentle heat distribution warms your floor and adds comfort to the room.
- Quiet Warmth serves as an insulator of the slab below, a sound barrier and a heater of the floor and room above. Always use a vapor barrier between the slab and Quiet Warmth.
- Quiet Warmth comes in two convenient sizes: 3' x 5' covering 15 S.F and 3' x 10' covering 30 S.F. Lay out your floor plan with these two sizes to cover the main living areas where people will be standing, sitting or walking, and fill in the remaining areas with unheated Insulayment or generic underlayment.
- Quiet Warmth is ideal for glued-down floors: engineered or natural wood. Simply glue down QuietWarmth® to the sub-floor, then glue down the wood floor to QuietWarmth.
- Quiet Warmth can be used as a supplemental or sole source heater. Each pad generates 10 Watts per S.F. The more coverage, the more suited for sole source heating. Call us for assistance in determining your BTU requirements.

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## PRODUCT DATA:

### QuietWarmth Pad Physical Properties:

Weight..... 25 oz/ sq yd (2.78 oz/ sq ft)  
 Thickness.....0.11"  
 Density.....18.9 lbs / ft<sup>3</sup>  
 Compression Resistance @ 25%..... 23.2 psi  
 Compression Resistance @ 30%..... 37 psi  
 Compression Resistance @ 50%..... 219 psi  
 Breaking Strength..... Length 78.4 lbs; Width 63.3 lbs.  
 Compression Set @ 25%.....18.8%  
 R-Value..... 0.5 [@0.11" = 0.46 hr-ft<sup>2</sup>-degF/Btu (4.19/inch)]

### Flammability:

Meets or exceeds Federal Flammability Standard:  
 CPSC FF 1-70 (Pill Test)

### Product Emissions:

Passed the most rigorous emissions test: Section 01350 for CHPS and Standard Office.

### Product Specifications:

Model	Dimensions	sq. ft.	Volts	Watts	Amps
QWARM3x5	3' x 5'	15	120	132	1.1
QWARM3x10	3' x 10'	30	120	264	2.2

### Sound Properties:

Impact Sound Transmission. The method is designed to measure the impact sound transmission performance of a floor-ceiling assembly in a controlled laboratory environment.

IIC	Flooring	Sub-Floor
60 (Field IIC)	3/8" Engineered Wood over Insulayment;	8" concrete (no ceiling assembly)
60 (Field IIC)	Ceramic Tile, thin-set and grout over Insulayment	8" concrete (no ceiling assembly)
52	Ceramic Tile, thin-set and grout over Insulayment	Wood frame and gypcrete

### Sound Transmission Loss:

The sound-insulating property of a partition element is expressed in terms of the sound transmission loss.

STC	Flooring	Sub-Floor
53	Ceramic Tile, thin-set and grout over Insulayment	Wood frame and gypcrete

Performance Level  
 Rated as "Extra Heavy" for "extra heavy and high impact use in food plants, dairies, breweries, and kitchens" when installed using porcelain tile & epoxy grout.

(ASTM C627 — Robinson Floor Test) Rated as "Heavy" for "shopping malls, stores, commercial kitchens, work areas, laboratories, auto showrooms and service areas, shipping/receiving, and exterior decks" when installed using latex modified thin set and epoxy grout.



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## ADVANTAGES:

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### **DISCOVER QUIET WARMTHS' ADVANTAGES COMPARED TO:**

*Other electric radiant floor systems, forced air systems, water (hydronic systems) and electric baseboard.*

### **MAIN ADVANTAGES VS. OTHER ELECTRIC FLOOR SYSTEMS:**

1. There is no easier radiant floor heating system to install. No cement is required! It insulates the slab, suppresses noise and warms your floor. No other heating system is constructed like it!
2. Patented FiberThermics heating elements prevent overheating.
3. It does not raise the floor. Ultra-thin (less than 1/8") heated pads smooth out minor imperfections in the sub-floor.
3. Installation-friendly 20' lead wires are connected to one end of each pad for easy routing and connecting to the thermostat.
5. Safety certified by ETL in compliance with UL Standards for radiant flooring in the USA and Canada.
6. Costs less. Especially for large areas like kitchens and basements.

### **MAIN ADVANTAGES VS. FORCED AIR:**

1. Energy saving. More efficient because warmth is concentrated near the floor, not the ceiling. Heats only the rooms where and when you need the warmth.
2. More comfortable. Radiant floor heat is attracted to you making you feel warmer. Forced air does not warm your floor or your feet.
3. Quiet, clean and hypoallergenic. No noisy fans blowing dust around.
4. Simpler, lower cost installation.

### **MAIN ADVANTAGES VS. HYDRONIC (WATER):**

1. Maintenance free. No mechanical heaters to heat the water and pumps to move the water. No potential leaky pipes to worry about.
2. Even heat distribution. Water near the end of the pipe has cooled compared to water at the beginning of the pipe.
3. More efficient. Water systems must heat the water, then move the water by pumping it through pipes. With Quiet Warmth, all the electric power is used to heat your floor.
4. Does not raise the floor. Water systems raise the floor to make room for the water pipes.
5. Simpler, lower cost installation. No water heaters, pumps, valves, pipes and other mechanical parts.

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## ADVANTAGES CONT:

### MAIN ADVANTAGES VS. ELECTRIC BASEBOARD:

1. More efficient and more even heat distribution. Baseboard heating is located at the room perimeter and overheats the outside of the room. It does not warm your floor or your feet.
2. Safer. Baseboard heating can be hot to the touch.
3. Better appearance. Baseboard heaters are unsightly while Quiet Warmth is not visible after installation.

## Cost to Run\*

<u>Model</u>	<u>S.F.</u>	<u>Watts</u>	<u>kW</u>	<u>Cost to Warm Up</u>	<u>Cost to Maintain</u>	<u>Cost per 24 Hrs.</u>	<u>Cost per Month</u>
3x5	15	150	0.15	\$ 0.015	\$ 0.005	\$ 0.12	\$ 3.56
3x10	30	300	0.30	\$ 0.030	\$ 0.010	\$ 0.24	\$ 7.13

\*Based on \$.10 per kWh

Warm up cost assumes 100% on for one hour

Temperature maintenance assumes 33% on

Cost per 24 hours and per month assumes temperature maintenance