

The Green Products Company

"Building A Greener Tomorrow!"

A DIVISION OF ACOUSTICAL SURFACES, INC.

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QuietWarmth®

Radiant Heat Underlayment



Think Green!

CERTIFIED RECYCLED AND
HEALTHIER INDOOR AIR QUALITY

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 and our SnapStone® tiles. May also be used with traditional ceramic and porcelain tile installations. 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.



ADVANTAGES

QuietWarmth vs. Other Electric Floor Systems ...

- **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!
- **Patented FiberThermics® heating elements prevent overheating.**
- **Minimal thickness profile.** Ultra-thin (less than 1/8") heated pads smooth out minor imperfections in the subfloor.
- **Installation-friendly** 20' lead wires are connected to one end of each pad for easy routing and connecting to the thermostat.
- **Safety certified** by ETL in compliance with UL Standards for radiant flooring in the USA and Canada.
- **Costs less.** Especially for large areas like kitchens and basements.

QuietWarmth vs. Forced Air ...

- **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.
- **More comfortable.** Radiant floor heat is attracted to you making you feel warmer. Forced air does not warm your floor or your feet.
- **Quiet, clean and hypoallergenic.** No noisy fans blowing dust around.
- **Simpler, lower cost installation.**

QuietWarmth vs. Hydronic (water) ...

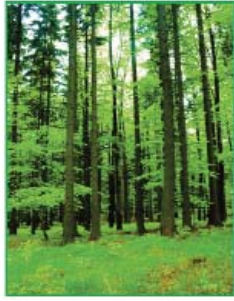
- **Maintenance free.** No mechanical heaters to heat the water and pumps to move the water. No potential leaky pipes to worry about.
- **Even heat distribution.** Water near the end of the pipe has cooled compared to water at the beginning of the pipe.
- **More efficient.** Water systems must heat the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

QuietWarmth vs. Electric Baseboard ...

- **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.
- **Safer.** Baseboard heating can be hot to the touch.
- **Better appearance.** Baseboard heaters are unsightly while Quiet Warmth is not visible after installation.



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ENVIRONMENTAL ATTRIBUTES

- Quietwarmth is certified by Scientific Certifications Systems (SCS) to contain 77% post industrial/pre-consumer fibers.
- Passed Section 01350 VOC test.
- Qualifies for CHPS (Collaborative High Performance Schools)
- Contributes to LEED MR Credit 4.1-4.2.

APPROVED FLOOR COVERING MATERIALS

- Floating laminate and floating wood floors*
- Glued-down engineered and solid wood floors*
- SnapStone, ceramic tile, and porcelain tile.*

* Refer to Floor Covering Manufacturer's specifications for compatibility of their product over any radiant heat before installation.

LIMITATIONS

- This equipment shall be installed only by qualified personnel who are familiar with the construction and operation of the apparatus and the risks involved.
- Do not install QuietWarmth under carpet, vinyl or nailed wood floors.
- Do not install QuietWarmth in walls.
- The type and thickness of floor covering materials used with this product must not exceed a thermal insulation "r" value of 2.0.
- See QuietWarmth Installation Guidelines document for substrate requirements.
- Use copper only as supply conductors.

INSTALLATION

Refer to the QuietWarmth Installation Guidelines document for complete installation details.

TECHNICAL DATA

FiberThermics® Heater Wire Physical Properties

Manufacturer: ThermoSoft International Corporation
 Listed in compliance with UL standard 1693 "Electric Radiant Heating Panels" and the National Electric Code Article 424 - Fixed Electric Space Heating Equipment.
 ETL Listing 3050800; US patent # US 6,563,094 B2

Insulated heating cable comprises patented, FiberThermics® electro-conductive fibers with thermal cut-off overheat protection. Cross-linked polymer insulations protect heating & return wires and can withstand -50°C to +200°C. 20' 16 AWG type TFFN lead wires attached.

QuietWarmth Pad Physical Properties

Blended recycled fibers.

Weight..... 25 oz/ sq yd (2.78 oz/ sq ft)
 Thickness..... 0.11"
 Density..... 18.9 lbs / ft³
 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-R²-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

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.

Product Specifications

Model	Dimensions	sq. ft.
QWARM3X5	3' x 5'	15
QWARM3X10	3' x 10'	30

Model	Volts	Watts	Amps
QWARM3X5	120	132	1.1
QWARM3X10	120	264	2.2



SCIENTIFIC CERTIFICATION SYSTEMS
 SCS-IAQ-013529

Pre-consumer
 SCIENTIFIC CERTIFICATION SYSTEMS
 SCS-REC-011902