

FilmHeat

FLOOR HEATING SYSTEMS



PRODUCT SHEET

ProLine
RADIANT HEAT SOLUTIONS

FilmHeat

Radiant Floor Heating Systems

GENERAL PRODUCT INFORMATION

FilmHeat Thin Floor Heating Element

FilmHeat in-floor film heating systems feature a paper-thin heating element that can be cut on site and requires no floor buildup. This floor heating system is easy to install and provides moderate, regulated warmth that is well suited for laminate surfaces. The FilmHeat floor heating panels can also be used to retrofit existing floors with radiant heat. The panels are stapled up between the floor joists and insulation is then installed afterwards so all the heat is directed upward to heat the existing floor.

FilmHeat is Ideal for Laminate Surfaces

The FilmHeat floor heating system is one of the best values for installing radiant heat under laminate flooring. It is extremely simple to install at the same time as laminate flooring is being laid out.

The FilmHeat In-Floor Heating System efficiently heats your floors and is easy to install. When installing the system, the heating panels are cut to their proper length, then installed under laminate flooring.

After installing FilmHeat, the electrical connections are made and the laminate floor is installed directly on the panels.

NOTE: A similar floor heating element –

RetroHeat – can be used to retrofit existing floors with radiant heat. If access to the joists is available, the thin heating element is simply stapled up between the floor joists and Batt insulation is then applied over the RetroHeat. (See photo to the right.)

The FilmHeat under floor heating system consists of heating panels, connection materials, and unique digital thermostat that includes a 15-amp GFCI breaker and floor sensor for accurate programming.

Another advantage of the ProLine FilmHeat electric floor heating system is that the heating element features a fast response time so that it quickly and evenly heats your floors at the times when you need the warmth the most.

Energy efficient and easy to use, the ProLine FilmHeat radiant floor heating system is the system of choice for retrofit applications or heating floors without requiring any floor buildup.



FilmHeat

Radiant Floor Heating Systems

System Controller (Touch Thermostat)

The FilmHeat radiant floor heating system is controlled by a technologically advanced, easy-to-use thermostat with a built-in GFCI and in-floor sensor. The programmable thermostat includes a clock function that allows you to set four events per day, including weekday and weekend settings. You can program the floor heating system to warm your floors in the morning just before you get up and then automatically shut off when you leave for work, allowing you to efficiently use the radiant heat system only when you need. The thermostat also allows you to temporarily change the temperature for a single event. Afterwards, the radiant heating system will return to the program schedule on the next scheduled event.



Thermostat Specifications

| | |
|----------------------------|---|
| Functions: | 3.5-inch color screen with easy interactive touch control, easy scheduling method |
| Supply Voltage: | 120/240 V ±15%, 50/60 Hz |
| Maximum switching current: | 15 Amp |
| Temperature control range: | 41 to 104°F (5 to 40°C) |
| Ambient range: | 32 to 104°F (0 to 40°C) |
| Floor temperature sensor: | 2-wire, 10-foot lead wire |
| Width | 18, 24, 36, and 48 inches |



FilmHeat Features and Benefits

Low Cost – The FilmHeat system is affordable to purchase and operate.

No Floor Buildup – The paper-thin heating element is only 0.016-inches thick.

Safe and Reliable – The heating panels are UL, ETL, NEMKO and CE listed and EMC certified for safety.

Easy Installation – The FilmHeat system can be installed quickly and easily.

Zoning – Allows you efficiently heat only the rooms you want, when you want.

Energy Efficient – 99 percent of the energy is converted directly into heat.

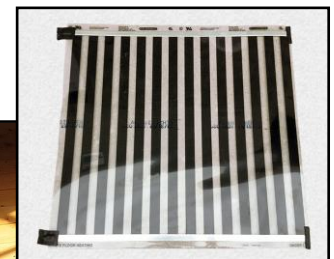
Maintenance Free – The FilmHeat system contains no moving parts, so you don't have to worry about ongoing maintenance costs.

Programmable Thermostat – Gives you flexibility to set the primary heat setting as well as heating schedule.

Warranty – 25-year manufacturer warranty.

For more information, call:

866.676.9276.



SPECIFICATION CHART

24-inch Elements (Heated width = 21.38 inches)

| 24-inch elements | | | 120 V | 240 V |
|------------------|-----------|-------|-----------------|------------------|
| Panels | Length | Power | Amps @120 volts | Amps @ 240 volts |
| 1 | 1'-6" | 22 | 0.18 | 0.09 |
| 2 | 2'-1.2" | 44 | 0.37 | 0.18 |
| 3 | 3'-1.8" | 66 | 0.55 | 0.28 |
| 4 | 4'-2.4" | 88 | 0.73 | 0.37 |
| 5 | 5'-3" | 110 | 0.92 | 0.46 |
| 6 | 6'-3.6" | 132 | 1.10 | 0.55 |
| 7 | 7'-4.2" | 154 | 1.28 | 0.64 |
| 8 | 8'-4.8" | 176 | 1.47 | 0.73 |
| 9 | 9'-5.4" | 198 | 1.65 | 0.83 |
| 10 | 10'-6" | 220 | 1.83 | 0.92 |
| 11 | 11'-6.6" | 242 | 2.02 | 1.01 |
| 12 | 12'-7.2" | 264 | 2.20 | 1.10 |
| 13 | 13'-7.8" | 286 | 2.38 | 1.19 |
| 14 | 14'-8.4" | 308 | 2.57 | 1.28 |
| 15 | 15'-9" | 330 | 2.75 | 1.38 |
| 16 | 16'-9.6" | 352 | 2.93 | 1.47 |
| 17 | 17'-10.2" | 374 | 3.12 | 1.56 |
| 18 | 18'-10.8" | 396 | 3.30 | 1.65 |
| 19 | 19'-11.4" | 418 | 3.48 | 1.74 |
| 20 | 21'-0" | 440 | 3.67 | 1.83 |

*Also available in widths of 18, 36 and 48 inches. Call 866.676.9276 for more information.



ORDERING INFORMATION

| Line Voltage | Description | Voltage |
|-----------------|--|----------|
| FLR13P8W | 13" wide heating element, for floor joists with 12" centers, 8W | 120, 240 |
| FLR17P10W | 17" wide heating element, for floor joists with 16" centers, 10W | 120, 240 |
| FLR25P17W | 25" wide heating element, for floor joists with 24" centers, 17W | 120, 240 |
| ULH24-22W | 24" wide under floor heating panel, 22W | 120, 240 |
| ULH36-35W | 36" wide under floor heating panel, 35W | 120, 240 |
| ULH48-47W | 48" wide under floor heating panel, 47W | 120, 240 |
| ACC-25 | Crimp connectors and plastic insulators (quantity 25) | |
| ACC-50 | Crimp connectors and plastic insulators (quantity 50) | |
| ACC-50-120V | 12-gauge, Type UF, connecting wire (White & Black) 50 feet | 120 |
| ACC-50-240V | 12-gauge, Type UF, connecting wire (Red & Black) 50 feet | 240 |
| ACC-100-120V | 12-gauge, Type UF, connecting wire (White & Black) 100 feet | 120 |
| ACC-100-240V | 12-gauge, Type UF, connecting wire (Red & Black) 100 feet | 240 |
| LEADS-14-THHN-W | 14-gauge, FilmHeat connecting wire (White), per foot price | 120, 240 |
| LEADS-14-THHN-B | 14-gauge, FilmHeat connecting wire (Black), per foot price | 120 |
| LEADS-14-THHN-R | 14-gauge, FilmHeat connecting wire (Red), per foot price | 240 |
| FRD-TAPE-1 | Sealant tape to seal connections (1"x10') | |
| FCT-104A | Crimping tool | |

FilmHeat Heating Panels

The floor heating system is available for use with standard 120 or 240 volt line current.

Watts per Square Foot: 11

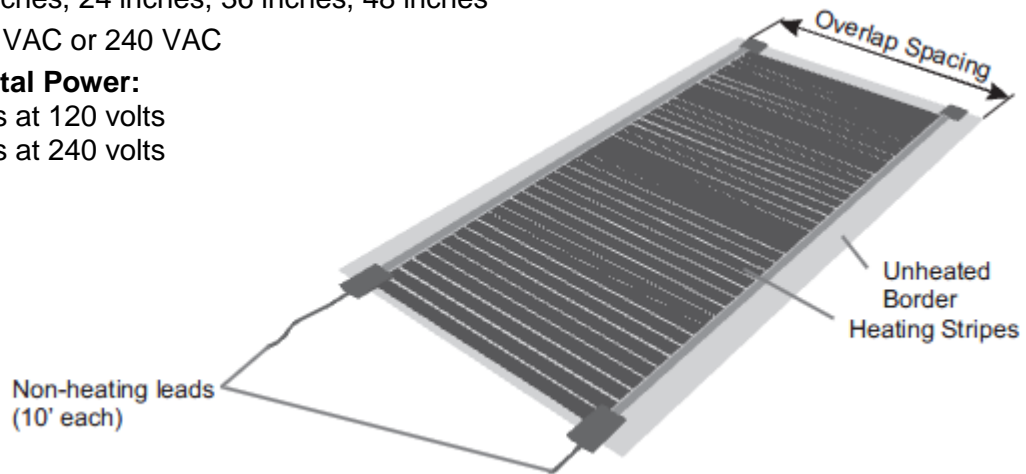
Widths: 18 inches, 24 inches, 36 inches, 48 inches

Voltage: 120 VAC or 240 VAC

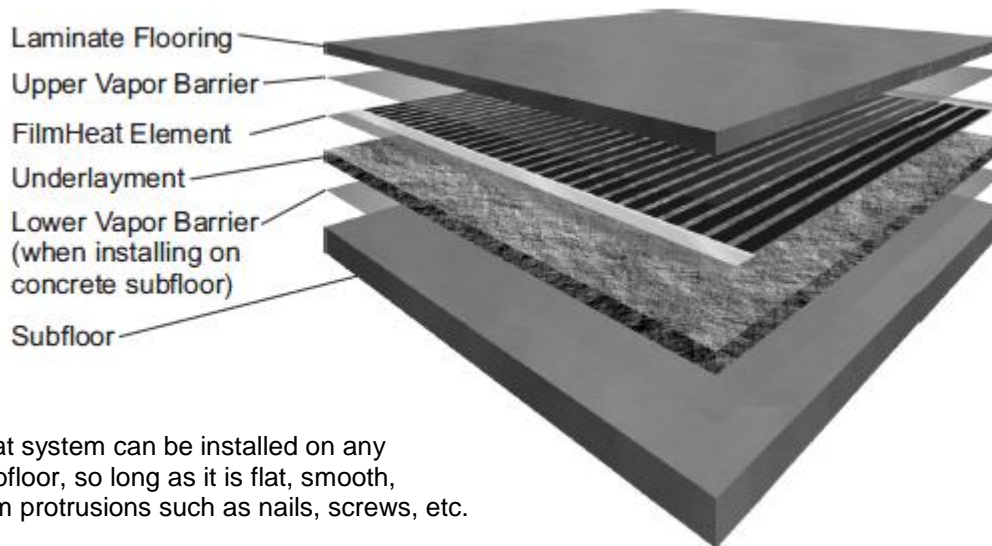
Maximum Total Power:

1,920 watts at 120 volts

3,840 watts at 240 volts



Example of FilmHeat Under Floating Floor Installation



The FilmHeat system can be installed on any standard subfloor, so long as it is flat, smooth, and free from protrusions such as nails, screws, etc.

WARRANTY INFORMATION

FilmHeat: 25-year limited warranty.

Thermostat: 2-year limited warranty.



ProLine can accept no responsibility for possible errors in catalogs, brochures, other printed materials, and website information. ProLine reserves the right to alter its products without notice. This also applies to products already on order provided that such alteration can be made without subsequent changes being necessary in specifications already agreed upon.

About Us

ProLine Radiant was created to match wholesale customers to the best radiant heat products and prices available while offering unprecedented customer services. As a leading provider of radiant snow melting, roof deicing, and floor heating solutions, ProLine constantly searches for and produces the latest radiant heat technology to provide customers with outstanding quality solutions, unparalleled service, convenience, and preferred pricing.

ProLine uses experience to understand our customers' needs and propose the radiant heat system that best meets each project's specific needs – without the hassle of weeks of research. From large commercial construction projects to custom residential applications, we offer sincere, unbiased recommendations based on your requirements and what makes the most sense.

Our goal at ProLine Radiant is to make the process of installing radiant heat systems as easy as possible for busy construction professionals. Our professional design staff produces detailed AutoCAD layouts that feature all the necessary information such as load calculations, breaker sizes, number of breakers, etc., so you'll know all the technical specs and power requirements prior to any installation taking place. In addition to our system design services, ProLine also includes personal installation support and free training courses.

We're proud to offer the highest quality, proven products at the best prices available – all in a quick and convenient manner. When it comes to radiant heat, you won't find a more knowledgeable, helpful and friendly staff. Call **866.676.9276** today and see why more and more professional builders are turning to ProLine for their radiant heating needs.

Summary of Customer Services:

- Free Installation Training Courses
- System Design – Detailed AutoCAD layouts
- Technical Support throughout the Installation Process
- Large Inventory of Industry Leading Products
- Easy-to-Customize Solutions
- Discounted Wholesale Pricing Maximizes Your Profits
- Fast, Accurate Turnaround

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