

# PROVA FLEX-HEAT® Heat Membrane for Ceramic, Porcelain, and Natural Stone Tile

## PRODUCT DESCRIPTION

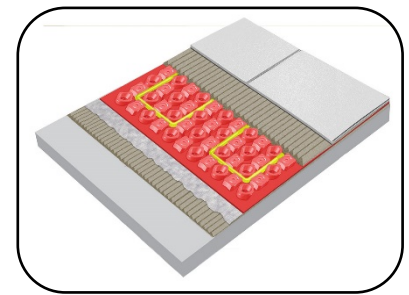
PROVA FLEX-HEAT® Heat Membrane is an uncoupling and waterproofing membrane designed for use with electric radiant heating cable (sold separately). Uniformly spaced reliefs create channels for ThermoTile® Heat Cable to secure into. The membrane comes in sheets that are installed under tile and embedded in cement. The thin yet durable design allows for different cable spacing options and will not raise the floors more than 0.24". PROVA FLEX-HEAT® Heat Membrane lasts the lifespan of the floor, which is significantly extended by the membrane's anti-fracture technology.

## FEATURES AND BENEFITS

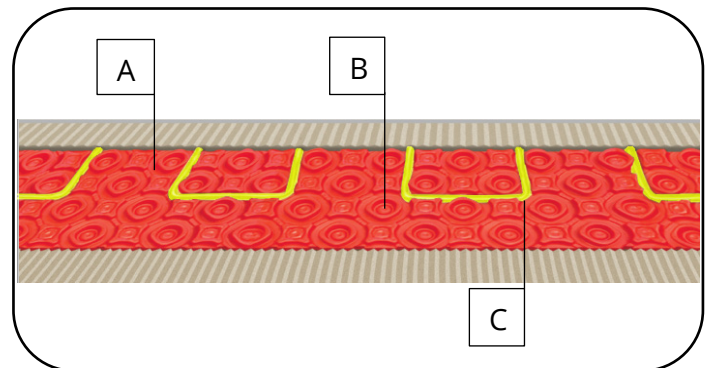
- Multifunctional – heating, vapor management and uncoupling.
- Deep groove design and locking channels accommodate heating cables of different thicknesses (up to 0.2").
- Shear Stress Control® system with non-woven fastening fleece counteracts pressure produced by substrate shifting.
- Open air canals on the bottom of membrane sheet permit moisture dissipation.
- Protects the substrate from moisture penetration and water seepage.
- Minimally raises the floor due to membrane's .24" (6mm) thickness.
- Can be used as an uncoupling membrane without heating cables for a level transition to higher floors.
- Well-suited for below-grade installations.
- To be used with ThermoTile® Heating Cable.

## APPLICATIONS

- Ceramic Tile
- Porcelain Tile
- Natural Stone Tile



## CONSTRUCTION



### **A. Polypropylene Sheet**

The lightweight, heavy-duty polypropylene sheet offers minimal raising of the floor. Sheet distributes heat efficiently and quickly due to thermal inertia. Material waterproofs and manages vapor while distributing and managing subfloor load limits.

### **B. Rounded Square-Shaped Reliefs**

The rounded square-shaped reliefs are uniformly spaced, creating channels specially designed to embed and hold heating cable.

### **C. Cable Channels**

Cable channels between reliefs are specially designed to hold and fasten heating cable into place. Provides exact spacing and customizable layout of cable.



**PROVA FLEX-HEAT® HEAT MEMBRANE IS AVAILABLE IN THESE LENGTHS:**

Model	Width x Length	Coverage S.F.
PDESH40	12.33' x 3.25'	40
PDESH80	24.75' x 3.25'	80
PDESH151/A	49.42' x 3.25'	161

**MAINTENANCE**

When installed according to the installation manual and proper testing has been performed throughout, the system requires no maintenance for the duration of its warranted life.

**TECHNICAL SUPPORT**

ThermoSoft® is available at (800)308-8057.

For quotes, layouts and specific technical information, contact us at:

ThermoSoft International Corporation  
701 Corporate Woods Parkway, Vernon Hills, IL 60061  
Support@ThermoSoft.com  
www.ThermoSoft.com

**SEE ALSO**

- Schluter®-DITRA Uncoupling Membrane for Ceramic, Porcelain and Natural Stone Tile for ThermoTile® Cable
- Prodeso® Uncoupling Membrane for Ceramic, Porcelain and Natural Stone Tile for ThermoTile® Cable
- ThermoTile® Heat Cable for Ceramic and Stone Tile



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the product page



### HEAT MEMBRANE MAT SELECTION GUIDE

#### 1. Calculate Membrane Mat Quantity

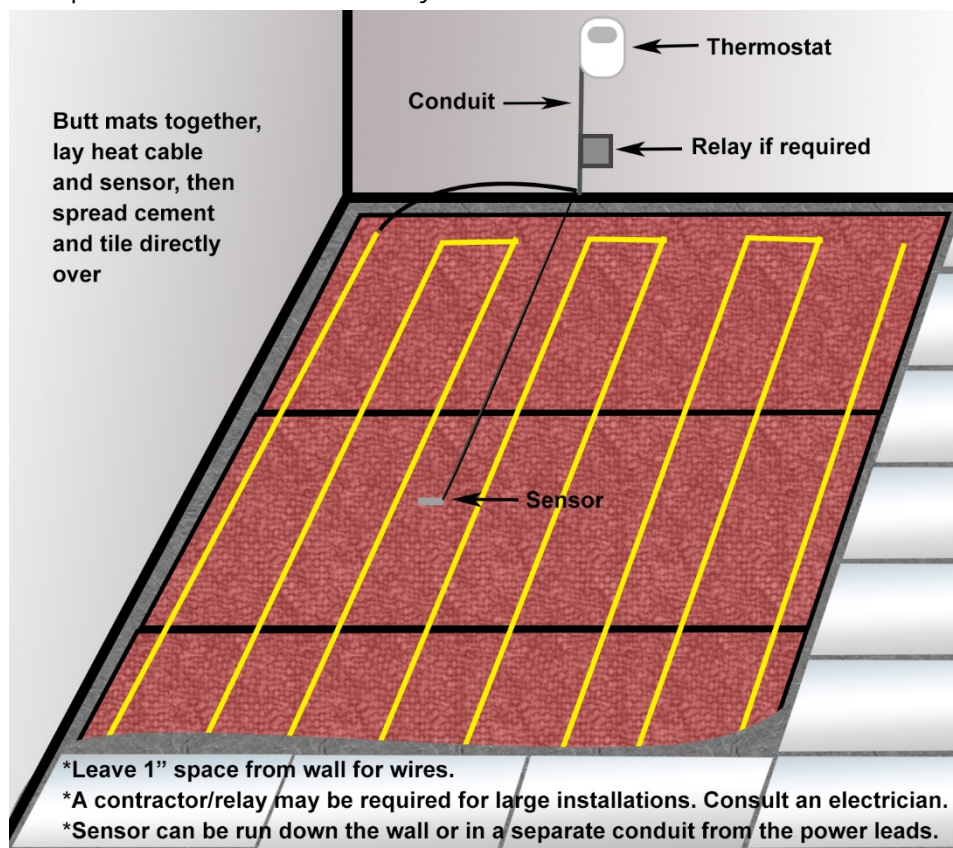
According to the heated space's layout and dimensions, calculate how many mats are needed to properly fit the area. Remember to subtract space of items fixed the ground such as toilets, dressers and appliances.

#### 2. Select Mat Size

Using the model chart, determine mat size. Remember cable should be installed 1" away from walls and fixed items. Cut mats to accommodate spaces or combine multiple mats.

#### 3. Select ThermoTile® Heat Cable

Select the proper voltage and length of heating cable. If the heated area is over 150 sq. ft., ThermoSoft® recommends 240V cable. Length will depend on cable spacing between relief studs. See the ThermoTile® Heat Cable Installation Guide or Submittal Sheet for more options and information. Refer to user manual for specifics and directions. Always consult a licensed electrician before making connections.



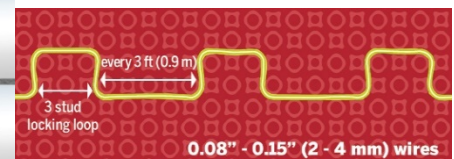
To calculate the total square footage needed:

- Multiply room length x width
- Note objects that sit on the ground directly such as toilets, bathtubs, and appliances. Calculate area of objects and subtract from total square footage.

#### Example:

Bathroom Length: 10ft  
Bathroom Width: 8ft  
(Minus area of fixtures)

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**Total = 80 sq. ft. (minus area of fixtures)**



Make cable loops every 3 ft. as shown above.

### IMPORTANT NOTES ON MAT SELECTION

- Do not tape over ThermoTile® heating wires.
- Do not overlap membrane mats or heat cable while rolled up.
- Do not cut ThermoTile® cable. Doing so will damage heating wires and result in voided warranty.
- For more information, call (800)308-8057 or visit [www.ThermoSoft.com](http://www.ThermoSoft.com).

\*This document serves as a general guideline and should be used as a supplemental source of information only. See official product manual for specific directions and instructions.



### CONTROLS – THERMOSTATS

Code	Description
UWG4-4999	OJ Wi-Fi Touch Screen Thermostat 15A load, 5mA GFCI, 15' floor sensor (120V or 240V Programmable)
UDG4-4999	OJ Thermostat 15A load, 5mA GFCI, 15' floor sensor (120V or 240V Programmable with touch screen)
UDG-4999	OJ Thermostat 15A load, 5mA GFCI, 10' floor sensor (120V or 240V Programmable w/air & floor limit)
TH115-AF-GA/U	OJ Thermostat 15A load, 5mA GFCI, 15' floor sensor (120V or 240V manual)
TH114-AF-GA/U	Aube Thermostat 15A load, 5mA GFCI, 15' floor sensor (120V or 240V Manual)
MTC-2991UFH	OJ Thermostat 15A load, 10' floor sensor (120V Manual)
MTC-1991UFH	OJ Thermostat 15A load, 10' floor sensor (240V Manual)
USG-4000	OJ Power Module 120V or 240V power relay with 5mA GFCI. 15A max load. For use <b>ONLY</b> with OJ Electronics' UDG-4999 Thermostats. (120V or 240V)
ETF-110/99C	OJ Backup Floor Sensor 15' floor sensor for OJ thermostats. A redundant sensor is recommended to be installed since sensors are difficult to replace. If installing a backup sensor, only connect one at a time.
AC112-01/U	Aube Backup Floor Sensor 15' floor sensor for Aube thermostats. A redundant sensor is recommended to be installed since sensors are difficult to replace. If installing a backup sensor, only connect one at a time.

### ACCESSORIES

ThermoSoft® has a complete line of accessories specifically designed for use with PROVA HEAT-FLEX® Heat Membrane and ThermoTile® Heat Cable. Use only Prodeso® and ThermoTile® accessories to ensure the performance of the system.

Code	Description
DT-105	Easy Tear TacTape 1" Wide, 10 Yards Long Duct Tape
DT-17860	Easy Tear Duct Tape 1-7/8" Wide, 60 Yards Long Tape
INSTALRM	InstAlarm Monitor for Short or Open Circuits During Installation. Available in Following Kits: TT Deluxe Install Kit (IK-TAMKGS), TT Safe Install Kit (IK-TAM), TF Install Toolkit (IK-DAMK), TT Basic Install Toolkit (IK-TA)
FLX-BLOCK	Wago Connector 222-415 Terminal Blocks for Multiple Floor Heating Mat Connections
MULTIMTR	Digital Multimeter for Monitoring Electrical Resistance During Installation. Available in Following Kits: TT Deluxe Install Kit (IK-TAMKGS), TT Safe Install Kit (IK-TAM), TF Install Toolkit (IK-DAMK)
KNPD-318	Ultra-Light Kneepads for Preventing Mat Damage. Available in Following Kits: TT Deluxe Install Kit (IK-TAMKGS), TF Install Toolkit (IK-DAMK)
ETF-110/99C	OJ Backup Floor Sensor 15' for OJ Thermostats
CR5MM-2448	Cerazorb 24" x 48" x 3/16" Underlayment for Tile
NEUP	Non-Heated Underlayment Padding for Fill-In Areas – Multiple Sizes Available
BBB	Back Butter Buddy Substrate Bonding Tool
CG-40120	ThermoGun Glue Gun
GS-11200	ThermoGun Glue Sticks
TRWL3838	Plastic Trowel 3/8 in. Notch
TRWL3812	Heavy Duty Plastic Trowel 1/2" x 3/8" Notch
TS38-0248	ThermoStrips – 3/8" x 24" x 2" Each
EK-X20B-120	ThermoTile® 120V Lead Wire Extension, 20' with Heat-Shrink Connectors and Instructions
EK-X20B-240	ThermoTile® 240V Lead Wire Extension, 20' with Heat-Shrink Connectors and Instructions
EK-X10B-120	ThermoTile® 120V Lead Wire Extension, 10' with Heat-Shrink Connectors and Instructions
EK-X10B-240	ThermoTile® 240V Lead Wire Extension, 10' with Heat-Shrink Connectors and Instructions

