

# ThermoTile® for Ceramic and Stone Tile

### PRODUCT DESCRIPTION

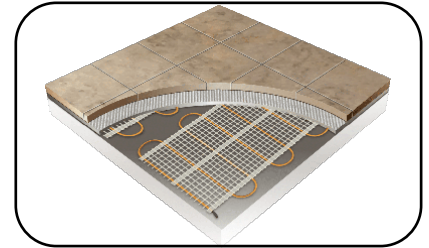
ThermoTile® is a radiant heating mat with anti-fracture holding mesh. ThermoTile® systems can be installed under most types of flooring including stone, tile, wood, laminate, vinyl and carpet when embedded in thin-set mortar or self-leveling cement. It provides the least labor-intensive method of installing floor heat cable due to cable-on-mesh construction.

### FEATURES AND BENEFITS

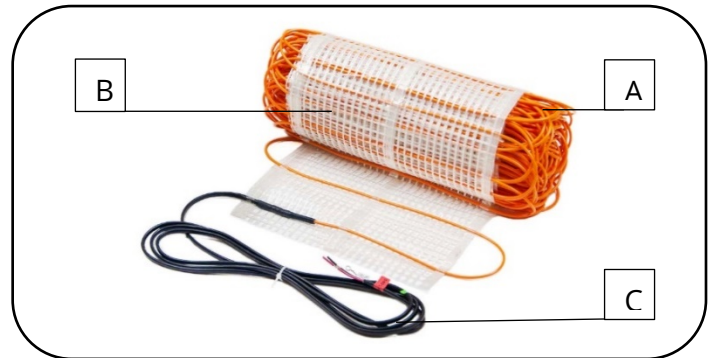
- The mesh can be cut to turn the mat and to custom fit the heated area on-site.
- The use of self-leveling cement allows for the installation of almost any type of floor covering and for later replacement of the floor covering without damage to the heating system.
- The factory-attached lead simplifies the electrical connection.
- The commercial-grade fiberglass mesh holds the cable flat for easy installation and strengthens the floor serving as an anti-fracture membrane.
- Dual cable construction and inner foil shield virtually eliminate electro-magnetic field and interference with electronic appliances.
- 1/8" thin cable, eliminates increases of the floor height.
- The 1/2" openings in the mesh allow thin-set to fully penetrate for a one-step tile or stone installation.

### APPLICATIONS

- Ceramic and Stone Tile
- Wood
- Carpet
- Laminate
- Vinyl



### CONSTRUCTION



#### **A. Heating Cable**

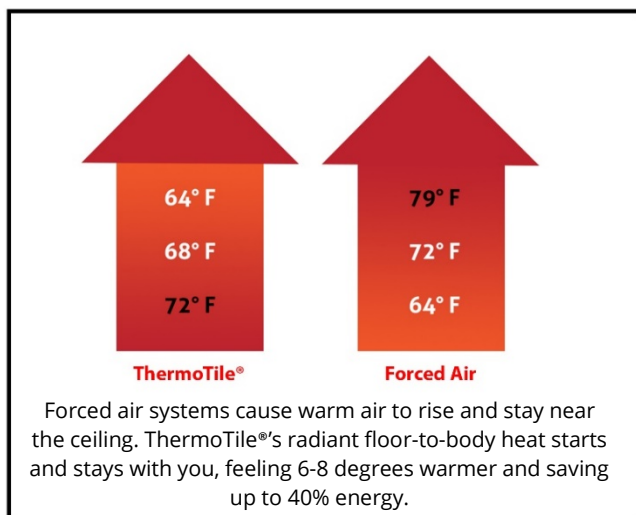
Heating cables are spaced equal distances apart on mat to ensure balanced warmth.

#### **B. Fiberglass Mesh**

Commercial-grade, flexible mesh holds the cable flat for easy installation.

#### **C. Lead Wire**

10' lead wire that connects to the thermostat. Factory-attached on one end of mat simplifies mat layout.



### THERMOTILE® HEATING MAT SELECTION GUIDE

#### 1. Calculate Heating Mat Quantity

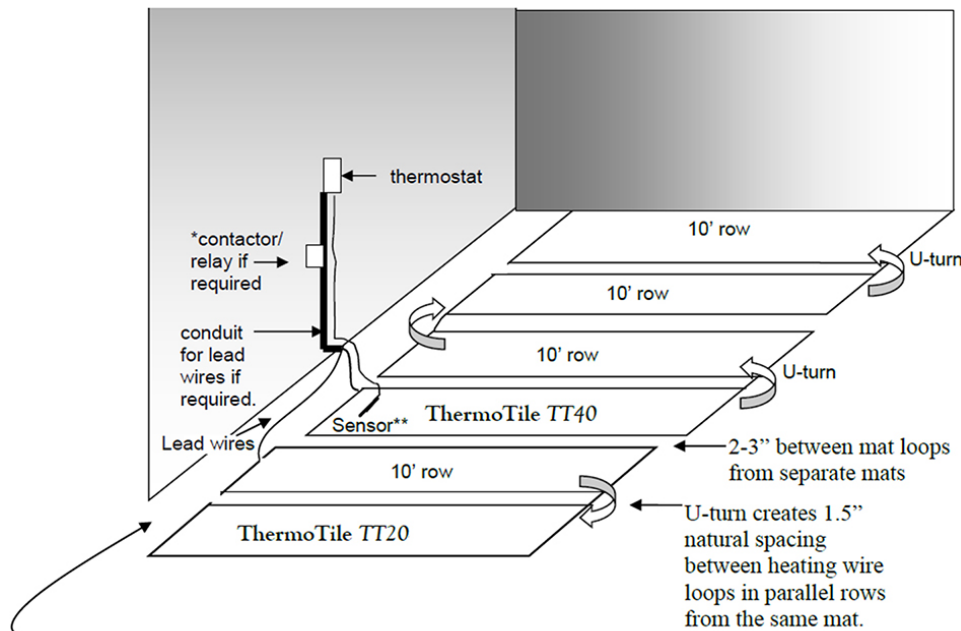
According to the heated space's layout and dimensions, calculate how many mats are needed to properly fit the area. Remember to subtract space of items fixed to the ground such as toilets, dressers and appliances.

#### 2. Select Mat Voltage and Size

Using the model chart, determine mat voltage and size.

#### 3. Determine Circuits/Circuit Protection

Refer to user manual for specifics and directions. Always consult a licensed electrician.



Leave 2-3" space from the wall to run lead wires or excess heating wire. Note: bury at least 3" of the armored lead wire under the thin-set mortar. Avoid stressing the splice point – do not bend splice.

\* A thermostat power module or relay (contactor) may be required for large installations. Consult ThermoSoft technical support or an electrician.

\*\* Sensor can be run down the wall stud or in a separate conduit from the power leads.

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:

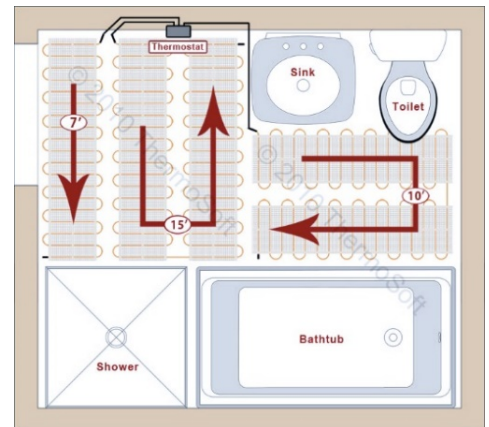
Bathroom Length: 10ft

Bathroom Width: 8 ft (Minus area of bathtub and toilet)

**Total area = 80 sq. ft. (minus area of bathtub and toilet)**

### IMPORTANT NOTES ON MAT SELECTION

- Although you can cut mesh to maneuver around objects and fit unusual spaces, cutting the actual heat wire will result in mat damage and void warranty.
- Never overlap mats or energize while rolled up.
- For more information, call (800)308-8057 or visit [www.ThermoSoft.com](http://www.ThermoSoft.com).





# ThermoTile® Heating Mat with Anti-Fracture Holding Mesh

**THERMOTILE® HEATING MATS ARE AVAILABLE IN 120 AND 240 VOLTS IN THESE SIZES:**

Volts	Model	Width x Length	Coverage S.F.	Watts	Amps
120	TT5 -120	1.5' x 5'	7.5	90	0.8
120	TT7 -120	1.5' x 7'	10.5	126	1.1
120	TT10 -120	1.5' x 10'	15	180	1.5
120	TT15 -120	1.5' x 15'	22.5	270	2.3
120	TT20 -120	1.5' x 20'	30	360	3
120	TT30 -120	1.5' x 30'	45	540	4.5
120	TT40 -120	1.5' x 40'	60	720	6
120	TT50 -120	1.5' x 50'	75	900	7.5
120	TT60 -120	1.5' x 60'	90	1080	9
120	TT70 -120	1.5' x 70'	105	1260	10.5
240	TT10 -240	1.5' x 10'	15	180	0.8
240	TT14 -240	1.5' x 14'	21	252	1.1
240	TT20 -240	1.5' x 20'	30	360	1.5
240	TT30 -240	1.5' x 30'	45	540	2.3
240	TT40 -240	1.5' x 40'	60	720	3
240	TT60 -240	1.5' x 60'	90	1080	4.5
240	TT80 -240	1.5' x 80'	120	1440	6
240	TT100-240	1.5' x 100'	150	1800	7.5
240	TT120-240	1.5' x 120'	180	2160	9

## WARRANTY

ThermoSoft® ThermoTile® is warrantied for a limited lifetime.

## 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

- ThermoTile® Heating Cable Positioned by Straps or Ties for Wood, Laminate, Vinyl and Carpet
- ThermoSlab® Heating Cable for Concrete Slabs
- ThermoShower® Heating Mesh Mat for Natural Stone, Tile, Wood, Laminate and Vinyl Shower Floors



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### THERMOSOFT INTERNATIONAL CORPORATION

Tel.: 1-800-308-8057  
 Fax: 1-847-279-8845  
 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 ThermoTile® mats. Use only ThermoSoft® ThermoTile® accessories to ensure the performance of the system.

Code	Description
CR5MM-2448	Cerazorb 24" X 48" X 3/16" Synthetic Cork Underlayment for Tile and Stone
TS38-0248	ThermoStrips Self-adhesive Synthetic Cork Strip Barriers for Self-Leveling Cement (3/8" x 24" x 2" each)
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
GG-40120	ThermoGun Glue Gun for Speedy and Simple Mat Installation. Available in TT Deluxe Install Kit (IK-TAMKGS)
GS-11200	ThermoGun Hot Melt Glue Adhesive Sticks for Use with ThermoGun. Size: 8.0" x 7/16"
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)
TRWL3812	Anti-Rust Heavy Duty Plastic Trowel With 1/2in. x 3/8in. Notch for Installing Large Tiles (12" and Up) to Avoid Wire Nicking
TRWL3838	Anti-Rust Heavy Duty Plastic Trowel With 3/8in. Square Notch to Avoid Wire Nicking. Available in Following Kits: TT Deluxe Install Kit (IK-TAMKGS), TT Safe Install Kit (IK-TAM), TT Basic Install Toolkit (IK-TA)
BBB013	Back Butter Buddy for 12" and Larger Tile Buttering of Thin set Mortar
ETF-110/99C	OJ Backup Floor Sensor 15' for OJ Thermostats
AC112-01/U	Aube Backup Floor Sensor 15' for Aube Thermostats
EK-X	ThermoTile® Lead Wire Extension Kits Available

