

# Mapeheat Mat

Pre-Wired, Floor-Heating Fabric



## DESCRIPTION

*Mapeheat™ Mat* is a pre-wired floor-heating fabric designed for easy installation. The pre-wiring aspect of *Mapeheat Mat* guarantees even heat distribution because the heating wires embedded within the fabric are evenly spaced during production.

A single standard-size mat can provide adequate floor-heat coverage for most standard bathroom and living areas. Installers can also combine multiple standard mats to heat the desired area. When full coverage cannot be achieved with standard-size mats (such as areas with curves, angles or obstructions), *Mapeheat Mat* can be customized to provide optimal coverage.

## FEATURES AND BENEFITS

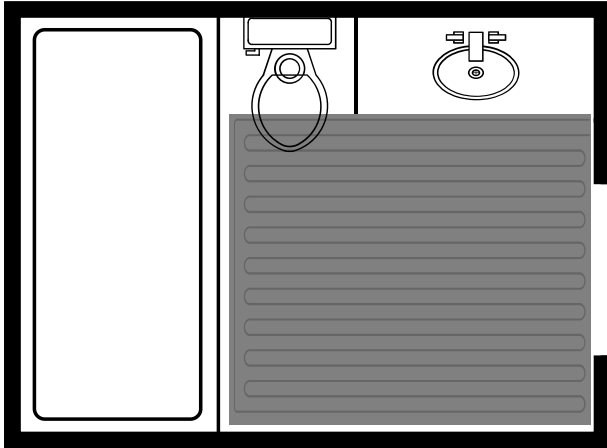
- Pre-built floor-heating fabric
- Compact 1/8" (3 mm) profile for minimal floor buildup
- Even heat distribution, with no cold spots
- Available in more than 70 standard sizes
- Custom sizing available through Product Support
- Floor covering can be installed immediately
- Available in 120 V and 240 V
- Output 12 W/ft<sup>2</sup> to 15 W/ft<sup>2</sup>

## APPROVALS

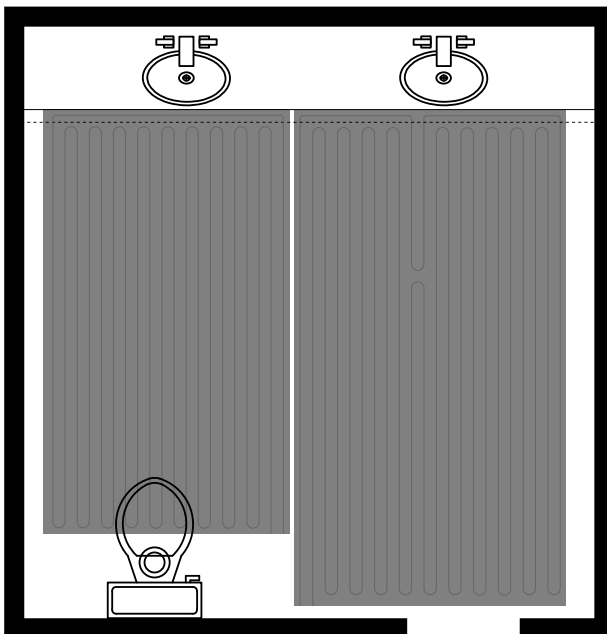
- Approved for indoor embedded floor-heating applications (-X)
- Approved for wet (-W) areas in the USA and Canada per Table 1 of C22.2 NO.130-16 and CEC section 62-104

## WHERE TO USE

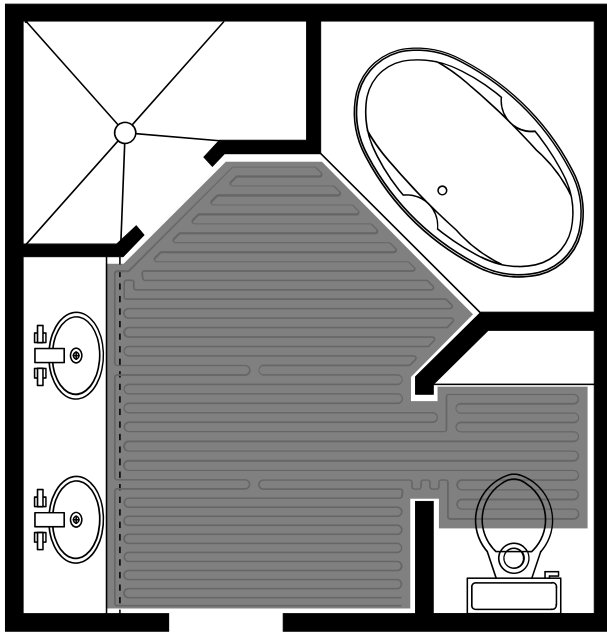
- Use under ceramic and natural stone tile, laminate flooring, engineered wood flooring and luxury vinyl tile/plank, in interior residential spaces such as kitchens, bathrooms, shower floors and three-season rooms.



*Mapeheat Mat single standard mat*



*Mapeheat Mat multiple standard mats*



*Mapeheat Mat custom-sized mat*

## LIMITATIONS

- Do not use over cracks or movement joints subject to out-of-plane movement, or where in-plane movement exists greater than 1/8" (3 mm).
- Do not cover expansion joints. Refer to the most current TCNA Handbook, Method EJ171, or TTMAC Tile Installation Manual, Detail 301MJ.
- Do not use over substrates containing asbestos, plank wood flooring, presswood, particleboard, chipboard, pressure- or oil-treated plywood, Luan, Masonite, self-stick tile, laminate, metal, fiberglass or similar dimensionally unstable materials.
- Do not use for submerged applications or for floors subject to standing water.
- Do not use in exterior applications.
- Do not use premixed products to set tile over *Mapeheat Mat*.
- Do not install moisture-sensitive tile or stone with water-based setting materials. Note: On occasion, dimensionally weak natural-stone tile that normally would not be categorized as moisture-sensitive (such as travertine, limestone, marble and agglomerates) can exhibit doming, cupping or curling when installed over impervious mats such as *Mapeheat Mat*.
- Do not use on bituminous substrates.
- Do not use on highly flammable material.
- Do not use with solid, hardwood flooring.

## SUITABLE SUBSTRATES

- Cured or young concrete. When used over young (green) concrete, the concrete must have cured for at least 7 days and be suitable to support tile installation traffic as determined by the project design professional, construction manager or general contractor.
- Cement mortar beds and leveling coats
- Cement backer units (CBUs) – see manufacturer's installation guidelines

- Industry-approved, exterior-grade plywood and APA Sturd-I-Floor, Exposure 1 OSB (in interior, dry areas only). Regarding deflection requirements, refer to the local building code; to the TCNA Handbook, Field Installation Requirements, subsection “Maximum Allowable Deflection for Floor System and Substrate;” to the TTMAC 09 30 00 specifications guide; and to ANSI A108.01, Section 3.4.
- Existing, well-bonded ceramic tile and dimensionally stable natural stone
- Existing, structurally sound vinyl floor without any foam or cushioning mat underneath
- Existing, cement terrazzo floors

Consult MAPEI’s Technical Services Department for installation recommendations regarding substrates and conditions not listed.

## SURFACE PREPARATION

- All suitable substrates must be smooth, structurally sound and free of any substance that could prevent or reduce proper bond and/or affect product performances.
- Gypsum-based patching or leveling compounds may leave a dusty residue on the surface. Clean the dusty substrate before applying primer and an approved MAPEI adhesive. See the technical bulletin “Tiling over gypsum” in the Tile & Stone Installation Systems section of MAPEI's Website.
- Wood subfloors must be prepared according to ANSI A108.01 and A108.02; to the TCNA Handbook, Field Installation Requirements, Subsection “Maximum Allowable Deflection for Floor System and Substrate;” and to the TTMAC 09 30 00 specifications guide.
- Do not use chemical means (acid etching or stripping) to prepare approved substrates. Use mechanical methods only.

See the “Surface preparation requirements” reference guide in the Tile & Stone Installation Systems section of MAPEI's Website.

## EXPANSION JOINTS

- Honor expansion joints through *Mapeheat Mat*, tiles and grout per tile industry standards.
- When necessary, cut tiles along both edges of the expansion joints. Do not allow tiles and mortar to overlap the expansion joints.
- Provide for movement joints as required by TCNA Method EJ171, or by TTMAC Specification Guide 09 30 00, Detail 301MJ.

### Product Specifications

|                                                |                                                                    |
|------------------------------------------------|--------------------------------------------------------------------|
| <b>Operating voltage</b>                       | 120 V and 240 V                                                    |
| <b>Power output</b>                            | 12 W/ft <sup>2</sup> or 15 W/ft <sup>2</sup>                       |
| <b>Maximum continuous exposure temperature</b> | 194°F (90°C)                                                       |
| <b>Minimum installation temperature</b>        | 50°F (10°C)                                                        |
| <b>Heating cable</b>                           | Single wire with ground braid outer layer                          |
| <b>Cold lead</b>                               | 2-wire, 18 AWG plus ground braid layer; 10 feet (3.05 m) in length |

## Accessories

| Product Name                              | Description                                                                                                                                            |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Mapeheat Thermo Connect</i> thermostat | WiFi-enabled floor-heating thermostat. This programmable thermostat can be controlled using a mobile smart phone app (iOS and Android) or Web browser. |
| <i>Mapeheat Thermo Touch</i> thermostat   | Color touchscreen programmable floor-heating thermostat with intuitive user interface and energy usage information                                     |
| <i>Mapeheat Thermo Basic</i> thermostat   | Non-programmable thermostat for simple control of any electric floor-heating system                                                                    |

## ORDERING CUSTOMIZED SIZES

If desired coverage cannot be obtained using one or a combination of standard sizes of *Mapeheat Mat*, *Mapeheat Mat* can be customized to provide the desired coverage for any area regardless of shape or size.

1. Provide an accurate drawing of the area including the full on-site perimeter dimensions, voltage, and desired thermostat location with all obstructions identified (vanities, toilets, vents, etc.). Please ensure that the installer or contractor contact information is provided if we need to verify or confirm the dimensions.
2. Submit the drawing to the *Mapeheat* Customer Care Team at [mapeheatusa@mapei.com](mailto:mapeheatusa@mapei.com) for U.S. customers and at [mapeheatcanada@mapei.com](mailto:mapeheatcanada@mapei.com) for Canadian customers. A quote will be provided, including freight and an AutoCAD drawing to confirm the submitted dimensions, within 24 to 48 hours.
3. Once dimensions are accepted by the customer and payment is confirmed, the *Mapeheat Mat* will be manufactured within 10 business days and shipped to the customer.

**Sizes for Mapeheat Mat, 120 V**

| Product Size          | Dimensions               | Ohms | Amps | Watts |
|-----------------------|--------------------------|------|------|-------|
| <b>Shower Mat*</b>    | 32" x 32" (81 x 81 cm)   | 171  | 0.7  | 84    |
| <b>3.5 ft. series</b> | 40" x 27" (102 x 69 cm)  | 160  | 0.8  | 90    |
|                       | 40" x 32" (102 x 81 cm)  | 135  | 0.9  | 107   |
|                       | 40" x 48" (102 x 122 cm) | 90   | 1.3  | 160   |
| <b>4 ft. series</b>   | 48" x 24" (122 x 61 cm)  | 150  | 0.8  | 96    |
|                       | 48" x 30" (122 x 76 cm)  | 120  | 1.0  | 120   |
|                       | 48" x 36" (122 x 91 cm)  | 100  | 1.2  | 144   |
|                       | 48" x 48" (122 x 122 cm) | 75   | 1.6  | 192   |
| <b>5 ft. series</b>   | 60" x 24" (152 x 61 cm)  | 120  | 1.0  | 120   |
|                       | 60" x 30" (152 x 76 cm)  | 96   | 1.3  | 150   |
|                       | 60" x 36" (152 x 91 cm)  | 80   | 1.5  | 180   |
|                       | 60" x 42" (152 x 107 cm) | 69   | 1.8  | 210   |
|                       | 60" x 48" (152 x 122 cm) | 60   | 2.0  | 240   |
|                       | 60" x 60" (152 x 152 cm) | 48   | 2.5  | 300   |
| <b>6 ft. series</b>   | 72" x 24" (183 x 61 cm)  | 100  | 1.2  | 144   |
|                       | 72" x 30" (183 x 76 cm)  | 80   | 1.5  | 180   |
|                       | 72" x 36" (183 x 91 cm)  | 67   | 1.8  | 216   |
|                       | 72" x 42" (183 x 107 cm) | 57   | 2.1  | 252   |
|                       | 72" x 48" (183 x 122 cm) | 50   | 2.4  | 288   |
|                       | 72" x 60" (183 x 152 cm) | 40   | 3.0  | 360   |
|                       | 72" x 72" (183 x 183 cm) | 33   | 3.6  | 432   |
| <b>7 ft. series</b>   | 84" x 24" (213 x 61 cm)  | 86   | 1.4  | 168   |
|                       | 84" x 30" (213 x 76 cm)  | 69   | 1.8  | 210   |
|                       | 84" x 36" (213 x 91 cm)  | 57   | 2.1  | 252   |
|                       | 84" x 42" (213 x 107 cm) | 49   | 2.5  | 294   |
|                       | 84" x 48" (213 x 122 cm) | 43   | 2.8  | 336   |
|                       | 84" x 60" (213 x 152 cm) | 34   | 3.5  | 420   |
|                       | 84" x 72" (213 x 183 cm) | 29   | 4.2  | 504   |
|                       | 84" x 84" (213 x 213 cm) | 25   | 4.9  | 588   |

|               |                            |    |     |       |
|---------------|----------------------------|----|-----|-------|
| 8 ft. series  | 96" x 24" (243 x 61 cm)    | 75 | 1.6 | 192   |
|               | 96" x 30" (243 x 76 cm)    | 60 | 2.0 | 240   |
|               | 96" x 36" (243 x 91 cm)    | 50 | 2.4 | 288   |
|               | 96" x 42" (243 x 107 cm)   | 43 | 2.8 | 336   |
|               | 96" x 48" (243 x 122 cm)   | 38 | 3.2 | 384   |
|               | 96" x 60" (243 x 152 cm)   | 30 | 4.0 | 480   |
|               | 96" x 72" (243 x 183 cm)   | 25 | 4.8 | 576   |
|               | 96" x 84" (243 x 213 cm)   | 21 | 5.6 | 672   |
|               | 96" x 96" (243 x 243 cm)   | 19 | 6.4 | 768   |
| 9 ft. series  | 108" x 30" (274 x 76 cm)   | 53 | 2.3 | 270   |
|               | 108" x 36" (274 x 91 cm)   | 44 | 2.7 | 324   |
|               | 108" x 42" (274 x 107 cm)  | 38 | 3.2 | 378   |
|               | 108" x 48" (274 x 122 cm)  | 33 | 3.6 | 432   |
|               | 108" x 60" (274 x 152 cm)  | 27 | 4.5 | 540   |
|               | 108" x 72" (274 x 183 cm)  | 22 | 5.4 | 648   |
|               | 108" x 84" (274 x 213 cm)  | 19 | 6.3 | 756   |
|               | 108" x 108" (274 x 274 cm) | 15 | 8.1 | 972   |
| 10 ft. series | 118" x 30" (300 x 76 cm)   | 49 | 2.5 | 295   |
|               | 118" x 36" (300 x 91 cm)   | 41 | 3.0 | 354   |
|               | 118" x 48" (300 x 122 cm)  | 31 | 3.9 | 472   |
|               | 118" x 60" (300 x 152 cm)  | 24 | 4.9 | 590   |
|               | 118" x 72" (300 x 183 cm)  | 20 | 5.9 | 708   |
|               | 118" x 84" (300 x 213 cm)  | 17 | 6.9 | 826   |
|               | 118" x 96" (300 x 243 cm)  | 15 | 7.9 | 944   |
|               | 118" x 116" (300 x 295 cm) | 13 | 9.5 | 1,141 |

\* The shower mat size has a 5" (7.5 cm) center drain hole and exterior dimensions of 32" x 32" (81 x 81 cm).

### Sizes for Mapeheat Mat, 240 V

| Product Size  | Dimensions                 | Ohms | Amps | Watts |
|---------------|----------------------------|------|------|-------|
| 5 ft. series  | 60" x 36" (152 x 91 cm)    | 320  | 0.8  | 180   |
|               | 60" x 42" (152 x 107 cm)   | 274  | 0.9  | 210   |
|               | 60" x 48" (152 x 122 cm)   | 240  | 1.0  | 240   |
|               | 60" x 60" (152 x 152 cm)   | 192  | 1.3  | 300   |
| 6 ft. series  | 72" x 30" (183 x 76 cm)    | 320  | 0.8  | 180   |
|               | 72" x 36" (183 x 91 cm)    | 267  | 0.9  | 216   |
|               | 72" x 42" (183 x 107 cm)   | 229  | 1.1  | 252   |
| 7 ft. series  | 84" x 36" (213 x 91 cm)    | 229  | 1.1  | 252   |
|               | 84" x 48" (213 x 122 cm)   | 171  | 1.4  | 336   |
| 8 ft. series  | 96" x 48" (243 x 122 cm)   | 150  | 1.6  | 384   |
| 10 ft. series | 118" x 42" (300 x 107 cm)  | 140  | 1.7  | 413   |
|               | 118" x 48" (300 x 122 cm)  | 122  | 2.0  | 472   |
|               | 118" x 60" (300 x 152 cm)  | 98   | 2.5  | 590   |
|               | 118" x 116" (300 x 295 cm) | 51   | 4.8  | 1,141 |
| 12 ft. series | 144" x 36" (366 x 91 cm)   | 133  | 1.8  | 432   |
|               | 144" x 60" (366 x 152 cm)  | 80   | 3.0  | 720   |
|               | 144" x 120" (366 x 304 cm) | 40   | 6.0  | 1,440 |
| 20 ft. series | 240" x 120" (610 x 304 cm) | 24   | 10.0 | 2,400 |

## RELATED DOCUMENTS

- "Surface preparation requirements" reference guide\*\*
- "Mapeheat Mat Installation Instructions"\*\*
- "Mapeheat Mat Shower Installation Instructions"\*\*
- "Surface prep over Mapeheat Mat for floor coverings"\*\*
- "How to measure for custom-made Mapeheat Mat"\*\*
- "Mapeheat Mat measuring grid"\*\*
- Mapeheat Mat brochure\*\*

\*\* At [www.mapei.com](http://www.mapei.com)

## ADDITIONAL INFORMATION

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability\_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

## WARNING

The test results shown in the TECHNICAL DATA table were obtained in compliance with test methods and curing cycles, if applicable, defined in the industry standards referenced on the Technical Data Sheet. Please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

### LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at [www.mapei.com](http://www.mapei.com). **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

## CONTACT INFORMATION

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1-888-US-MAPEI (1-888-876-2734) / (954) 246-8888

### Technical Services

U.S. and Puerto Rico:  
Flooring: 1-800-992-6273  
Concrete and heavy construction: 1-888-365-0614  
Canada:  
1-800-361-9309

### Customer Service

1-800-42-MAPEI (1-800-426-2734)

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For the most current product data and BEST-BACKED<sup>SM</sup> warranty information,  
visit [www.mapei.com](http://www.mapei.com).  
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