For Residential and Commercial Applications

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

HeatMatrix™

WarmWire® Uncoupling Membrane

HeatMatrix simplifies WarmWire installation while providing vapor management, crack isolation, and waterproofing. The channels between the raised shapes on the membrane are designed to secure WarmWire in increments of approximately 3" (76 mm). Optionally, wire spacing can alternate between 2 and 3 shapes for a higher heat output, or between 3 and 4 shapes for a lower output. Channels that run beneath the membrane provide a path for moisture/vapor pressure to dissipate, making HeatMatrix a good choice for below-grade installation on concrete. The non-woven fleece layer below the membrane reduces sheer stress caused by movement in the substrate. For areas exposed to surface water, HeatMatrix joints should be sealed using HeatMatrix joint strip.

Specifications

Literature	IOM-ST-HeatMatrix
Material	Polypropylene
Height	0.24" (6 mm)
Roll size	49.2' roll length by 3.28' roll width (15 m x 1 m)
Roll weight	12 lbs (5.5 kg)
Working temperature	-10°C to 60°C (14°F to 140°F)

Features

- Fast WarmWire installation
- Water proofing
- Sheer stress control
- Vapor management
- Low profile

Certifications

ASTM Standard C627 Robinson Floor Test

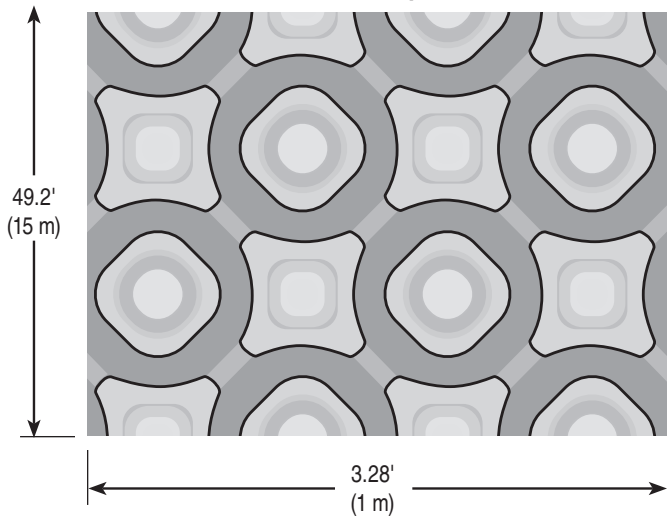
Report	Substrate	Joist Spacing	Tile	Rating
TCNA-036-16	OSB	16" (406 mm) o.c.	12" x 12" (305 x 305 mm) porcelain	Light

- Meets the requirements for uncoupling, substrate crack isolation, point load, and mold resistance in ANSI A118.12 American National Standard Specifications for Crack Isolation Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation.
- ANSI A118.12, Section 5.1.3, Uncoupling Membrane minimum 50 PSI seven day shear strength.

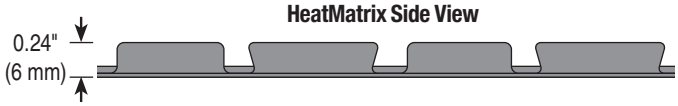
⚠ CAUTION

This Engineering Sheet is not intended to provide full installation instructions and safety information. In order to avoid property damage or injury, please refer to the complete installation manual and product safety information provided with the product.

HeatMatrix Top View



HeatMatrix Side View



Plywood or exterior grade OSB substrate requirements:
- Sound, dry and free of dust and debris
- Meets or exceeds the tile manufacturers recommendations
- 16" (406 mm) o.c. joist spacing, minimum subfloor thickness: 5/8" (16 mm)
- 19.2" (488 mm) o.c. joist spacing, minimum subfloor thickness: 3/4" (19 mm)
- 24" (610 mm) o.c. joist spacing, minimum subfloor thickness: double layer 3/4" + 3/8" (19 + 10 mm)

Concrete substrate requirements:
- Slab must be fully cured and free of dust and debris

Bonding HeatMatrix to substrate:
- Polymer modified thin-set mortar

Bonding tile or stone to HeatMatrix:
- Use a polymer modified or non-modified thin-set mortar as recommended by the tile manufacturer.
- For porcelain, a polymer modified thin set is typically recommended.

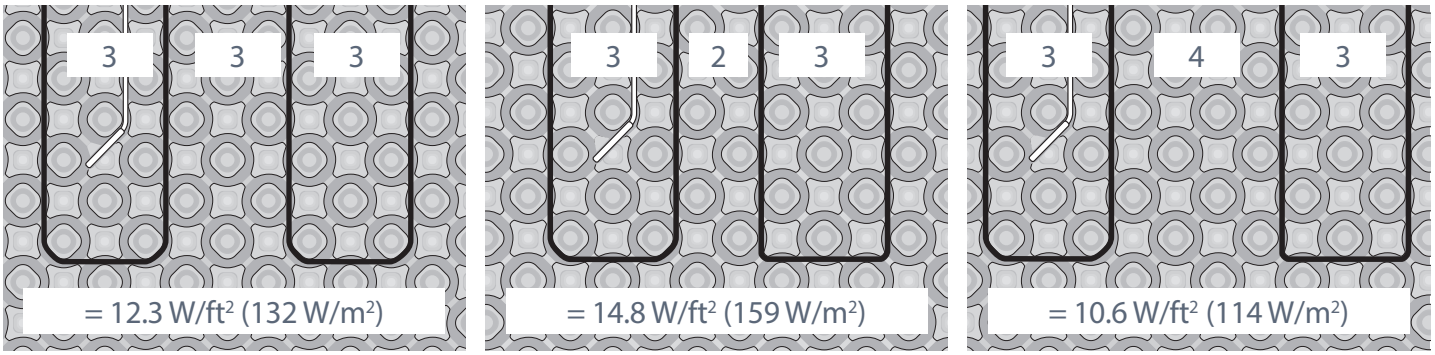
Product Options

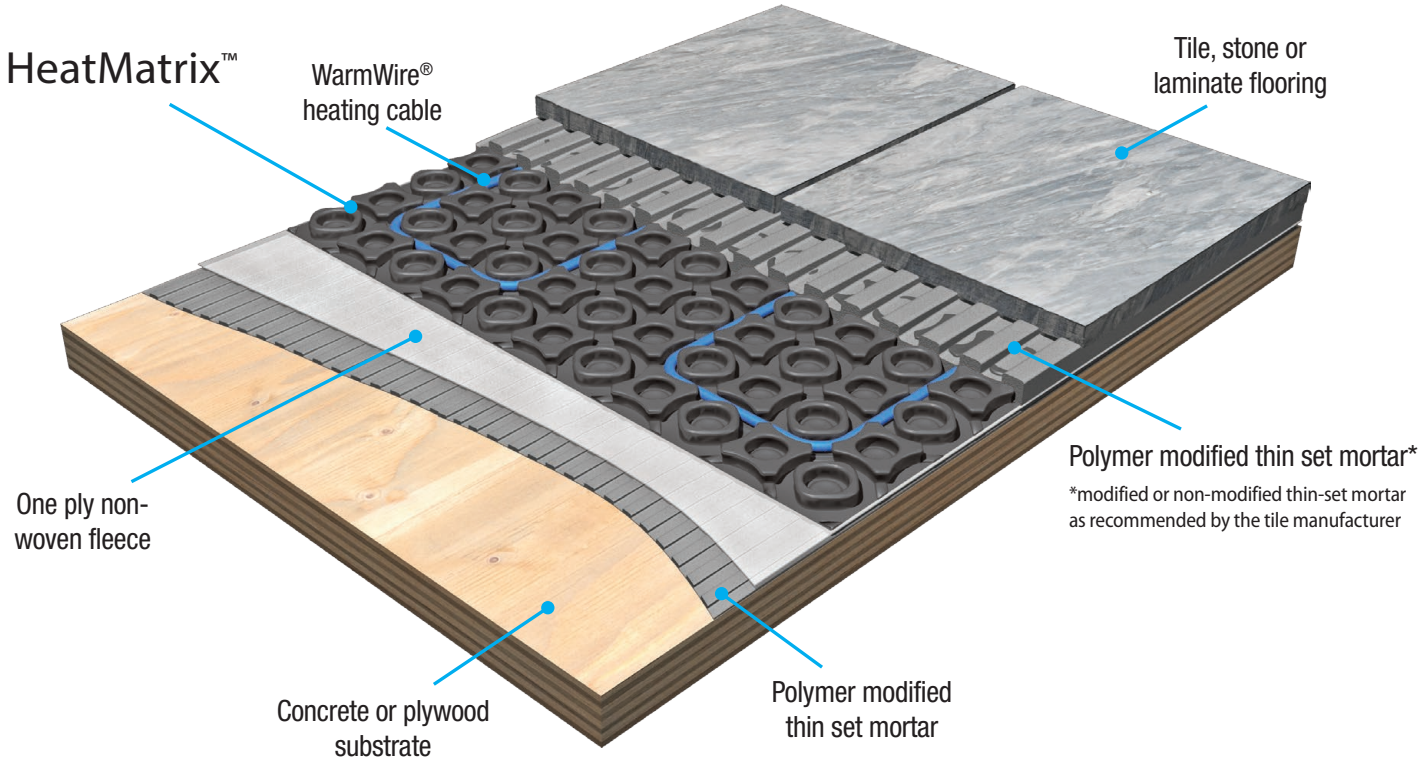
Qty	Description	Order#	Model#
	HeatMatrix 161 ft²	81019454	8006GRY161-ST
	HeatMatrix 40 ft²	81019455	8006GRY40-ST
	HeatMatrix joint strip	81019457	8006HJS - ST

HeatMatrix Installation Examples

WarmWire spacing:

- Install WarmWire with 3 shapes in-between each row for approx. 12.3 W/ft² (132 W/m²) heat output (standard spacing)
- Alternate between 3 shapes and 2 for a higher heat output of 14.8 W/ft² (159 W/m²)
- Alternate between 3 shapes and 4 for a lower heat output of 10.6 W/ft² (114 W/m²)





SunTouch®

A WATTS Brand

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