Schluter®-DITRA-HEAT

Electric floor warming system with integrated uncoupling

Schluter® Systems

PROFILE OF INNOVATION

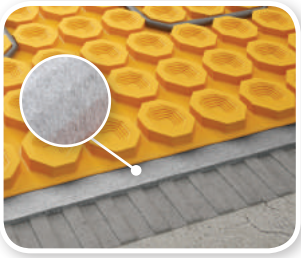
Bare Feet WANTED

DITRA-HEAT is the only electric floor warming system with integrated uncoupling technology to ensure that floors are both comfortable, and resistant to cracked tiles and grout. Cables can be placed wherever heat is desired for customized heating zones, and no leveling compounds are required, which makes for a quick and easy installation.

- Heating and uncoupling in a single layer
- No self-levelers required to encapsulate heating cables (no need to wait for curing)
- Place the heating cables exactly where they are needed, without clips or fasteners
- Combines the flexibility of loose cable with the ease of installation of a mat system
- Minimizes assembly thickness for easy transitions to lower surface coverings

NEW!

DITRA-HEAT-TB



Uncoupling membrane with integrated thermal break. Warms tiled floors up to 70% faster over concrete!

DITRA-HEAT-E-RT

Programmable touchscreen thermostat used to control DITRA-HEAT-E-HK heating cables.

EASY TO INSTALL

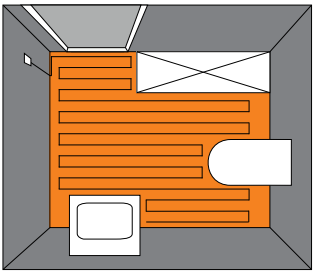
1. Apply DITRA-HEAT or DITRA-HEAT-TB to the floor, fleece side down. Solidly embed the matting into the mortar.

2. Embed the heating cables between studs, at 3 stud spacing (3-1/2" – *9 cm*).

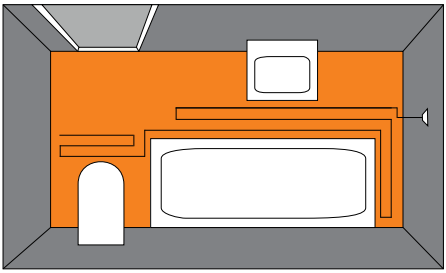
3. Tile can be installed over DITRA-HEAT and DITRA-HEAT-TB immediately. Fill the matting with unmodified thin-set mortar and comb additional mortar over the matting using a trowel that is appropriate for the size of the tile.

Customizable heating zones

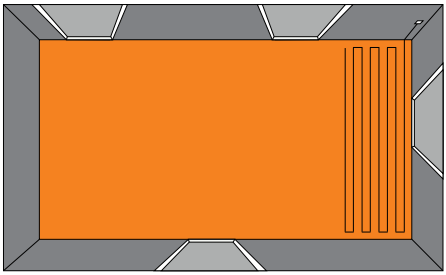
Heat your whole floor...



Or heat a specific area...



With DITRA-HEAT, it's your tile floor, warmed the way you want it.



MEASURING GUIDE

Membrane is selected according to the size of the area to be tiled.

Heating cable is selected according to the size of the area to be heated. Be sure to measure the heated area accurately.

The allowable heated area is limited by the minimum required spacing from fixed elements such as:

- Walls/partitions/fixed cabinets = 2" *(50 mm)*
- Heat sources (baseboard heaters, fireplaces, forced air heating ducts, etc.) = 8" *(200 mm)*
- Floor drains = 6" *(150 mm)*
- Minimum spacing from a toilet flange is 2" *(50 mm)*

Select a heating cable close to, but not more than the amount determined in step 3. Do not purchase a heating cable the same size as the area to be tiled; this will be too much heating cable.

Combining Cables
Two DITRA-HEAT-E-HK heating cables can be connected in parallel and controlled by a single DITRA-HEAT-E-RT/-RSD/-R thermostat if the total current is less than 15 amps. This work must be performed by a qualified electrician in accordance with applicable electrical and building codes.

IMPORTANT: HEATING CABLES CANNOT BE CUT TO FIT

Never install the heating cable under vanities, bathtub platforms, kitchen cabinets or any other fixtures or in closets. Excessive heat will build up in these confined spaces and may cause cable overheating.

Please refer to the Schluter®-DITRA-HEAT Installation Handbook for complete installation details and warranty criteria.

Step 1

Draw the room on a sheet of paper.

Step 2

Measure areas where the membrane will be installed. The total will tell you how much DITRA-HEAT or DITRA-HEAT-TB membrane is required.

Area	Dimensions	Total
A_1		
A_2		
A_3		
A_4		
	Grand Total Membrane	

Step 3

Measure areas where the heating cable is to be installed. The total will tell you how much DITRA-HEAT-E-HK heating cable is required.

Area	Dimensions	Total
B_1		
B_2		
B_3		
B_4		
	Grand Total Heating Cable	

Once you have your measurements, try our DITRA-HEAT calculator to determine which components you need to complete your floor warming project.

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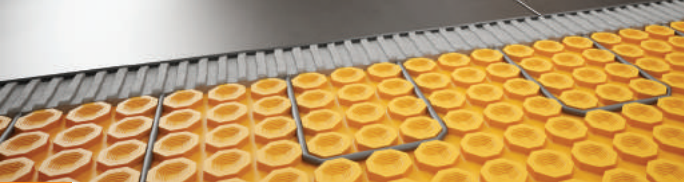
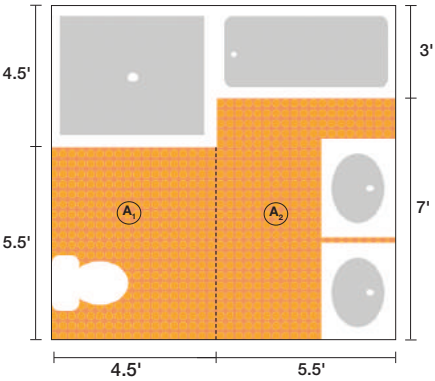


Example



DITRA-HEAT or **DITRA-HEAT-TB**

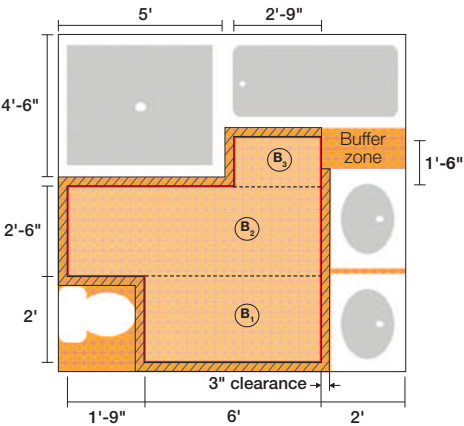
Membrane

= $A_1 + A_2$

= (5.5 x 4.5) + (7 x 5.5)

= 24.75 + 38.5

DH or **DHTB = 63.25 sq. ft.**



DITRA-HEAT-E-HK Heating Cable

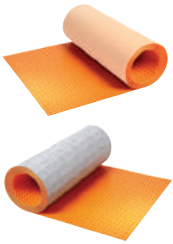
= $B_1 + B_2 + B_3$

= (2 x 6) + (2.5 x 7.75) + (2.75 x 1.5)

= 12 + 19.4 + 4.1

DHEHK = 35.5 sq. ft.

Components



DITRA-HEAT Membranes

The DITRA-HEAT and DITRA-HEAT-TB membranes are available in both mat and roll formats. They are each designed to secure the system heating cables and serve as a universal substrate for tile coverings. DITRA-HEAT-TB also features an integrated thermal break designed to provide up to 70% faster heat-up times over concrete substrates.

DITRA-HEAT membrane: U.S.Pat. No. 8,950,141, and U.S. DES. PAT. No. D706459
Canada©Schluter Systems L.P. and other patents pending
DITRA-HEAT-TB membrane: Patent pending

Heating Cable

The twisted pair heating cable is available in 120 and 240 Volt formats. The cables can be installed without returning to the thermostat and produce virtually no electromagnetic fields.

Digital Thermostats

The digital thermostat controls the floor temperature and is offered in touchscreen, programmable, and non-programmable formats. A power module can be used in large floor applications where the heating load exceeds 15 amps.

Schluter®-Systems offers practical kits for common room configurations that include all necessary system components in the right dimensions.

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