

# Schluter®-DITRA-HEAT Calculation Sheet

Both membrane and cables need to be calculated.

## FOLLOW THE STEPS BELOW:

- DITRA-HEAT / DITRA-HEAT-DUO **membrane** is selected according to the size of the **area to be tiled**
- DITRA-HEAT-E-HK **heating cable** is selected according to the size of the **area to be heated**
- DITRA-HEAT-E-HK **heating cable** selection will also be impacted by choice of **cable spacing** depending upon the **specific application**<sup>1</sup>
- Applications that combine DITRA-HEAT-E-HK heating cable(s) with **AFCs (Alternate Floor Coverings)** require the use of a continuously alternating 3-2 stud spacing<sup>2</sup>
- The allowable heated area is limited by the **minimum required spacing from fixed elements**<sup>3</sup> - See chart above
- Multiple DITRA-HEAT-E-HK heating cables can be connected in parallel and controlled by a single DITRA-HEAT-E thermostat, if the total current **does not exceed 15 amps**
- If the total current is over 15 amps, an additional DITRA-HEAT-E thermostat or **DITRA-HEAT-E-RR power module** is required
- **IMPORTANT: Heating Cables CANNOT BE CUT** to fit or installed under any fixed objects with no air space beneath
- For a complete list of all installation requirements, please refer to the DITRA-HEAT Installation Handbook

### Notes:

1. See the *Installation, Warnings, and Heating Cable Specification* sections of the DITRA-HEAT Installation Handbook
2. See the *Alternative Floor Coverings and Heating Cable Specification* sections of the DITRA-HEAT Installation Handbook
3. See the *Warnings* section of the DITRA-HEAT Installation Handbook for a complete list

### Minimum spacing requirements from:

Fixed elements	Distance	
	in.	mm
Walls, partitions, and fixed cabinets*	2	50
Plumbing drains	4	100
Forced air heating vents	4	100
Heat sources (baseboard heaters, fireplaces, etc.)	8	200
Centerline of toilet drains	7	180
Linear drain (channel body edges)	1	25

\* From toe-kick recess

Try the Calculation Sheet...  
or Download our App with  
DITRA-HEAT Estimator!



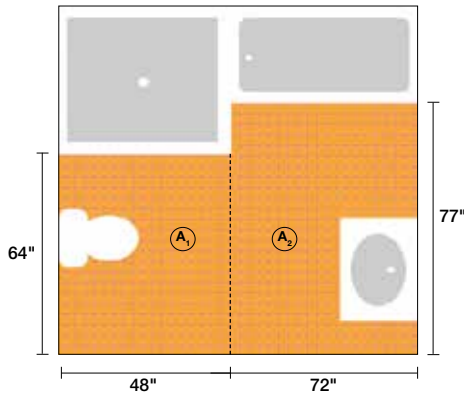
## Step 1 - Draw room

Draw the room floor plan on the other side of this sheet.

## Step 2 - Calculate membrane required

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

### Example



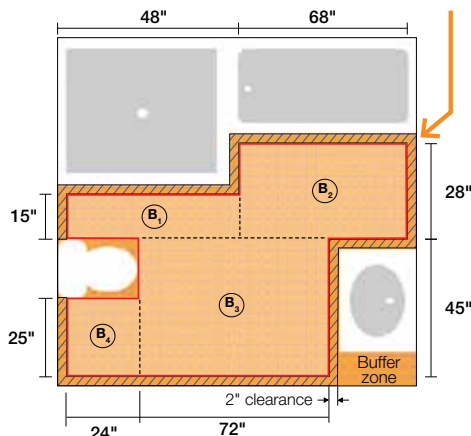
### DITRA-HEAT or DITRA-HEAT-DUO Membrane

Area	Dimensions	Total
A <sub>1</sub>	64" x 48"	3072 in <sup>2</sup>
A <sub>2</sub>	77" x 72"	5544 in <sup>2</sup>
A <sub>3</sub>	-	-
A <sub>4</sub>	-	-
Divide total by 144 to get measurement in ft <sup>2</sup>		8616 in <sup>2</sup> ÷ 144
<b>Grand Total Membrane</b>		<b>59.8 ft<sup>2</sup></b>

## Step 3 - Calculate cable size(s)

Measure areas where the heating cable is to be installed. The total tells you the maximum DITRA-HEAT-E-HK heating cable amount. Remember to account for required clearances: walls, partitions, and fixed cabinets is 2"; plumbing drains is 4"; heat sources is 8"; centerline of toilet drains is 7"

### Example



### DITRA-HEAT-E-HK Heating Cable

When choosing the appropriate heating cable(s) size(s), please consider whether you require 3 stud cable spacing or alternating 3-2 stud cable spacing.

Area	Dimensions	Total
B <sub>1</sub>	15" x 48"	720 in <sup>2</sup>
B <sub>2</sub>	28" x 68"	1904 in <sup>2</sup>
B <sub>3</sub>	45" x 72"	3240 in <sup>2</sup>
B <sub>4</sub>	25" x 24"	600 in <sup>2</sup>
Divide total by 144 to get measurement in ft <sup>2</sup>		6464 in <sup>2</sup> ÷ 144
<b>Grand Total Heating Cable</b>		<b>44.9 ft<sup>2</sup></b>

**NOTE: This is a typical estimation for the installation of ceramic and stone tile.**

For applications using alternative floor coverings, please refer to the Alternative Floor Coverings section of the DITRA-HEAT Installation Handbook

