

Schluter®-DITRA-HEAT Calculation Sheet

Both membrane and cables need to be calculated.

FOLLOW THE STEPS BELOW:

- DITRA-HEAT* **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**¹
- 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 spacing²
- The type and thickness of floor covering materials used must not exceed a thermal insulation "R" value of 1
- The allowable heated area is limited by the **minimum required spacing from fixed elements**³ - 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 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 Planning*, 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 and Planning* 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 ¹	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

¹From toe-kick recess

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



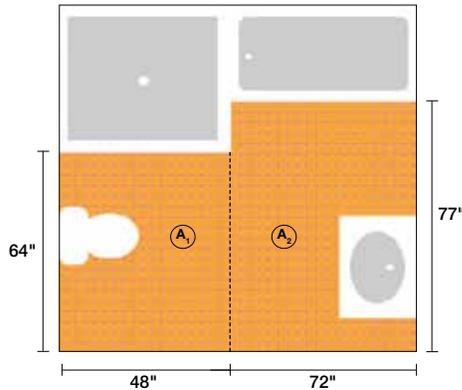
Step 1 - Draw room

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* membrane is required.

Example



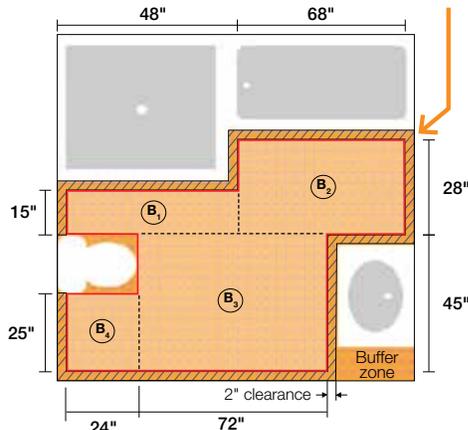
DITRA-HEAT* Membrane

Area	Dimensions	Total
A ₁	64" x 48"	3072 in ²
A ₂	77" x 72"	5544 in ²
A ₃	-	-
A ₄	-	-
Divide total by 144 to get measurement in ft ²		8616 in ² ÷ 144
Grand Total Membrane		59.8 ft²

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".

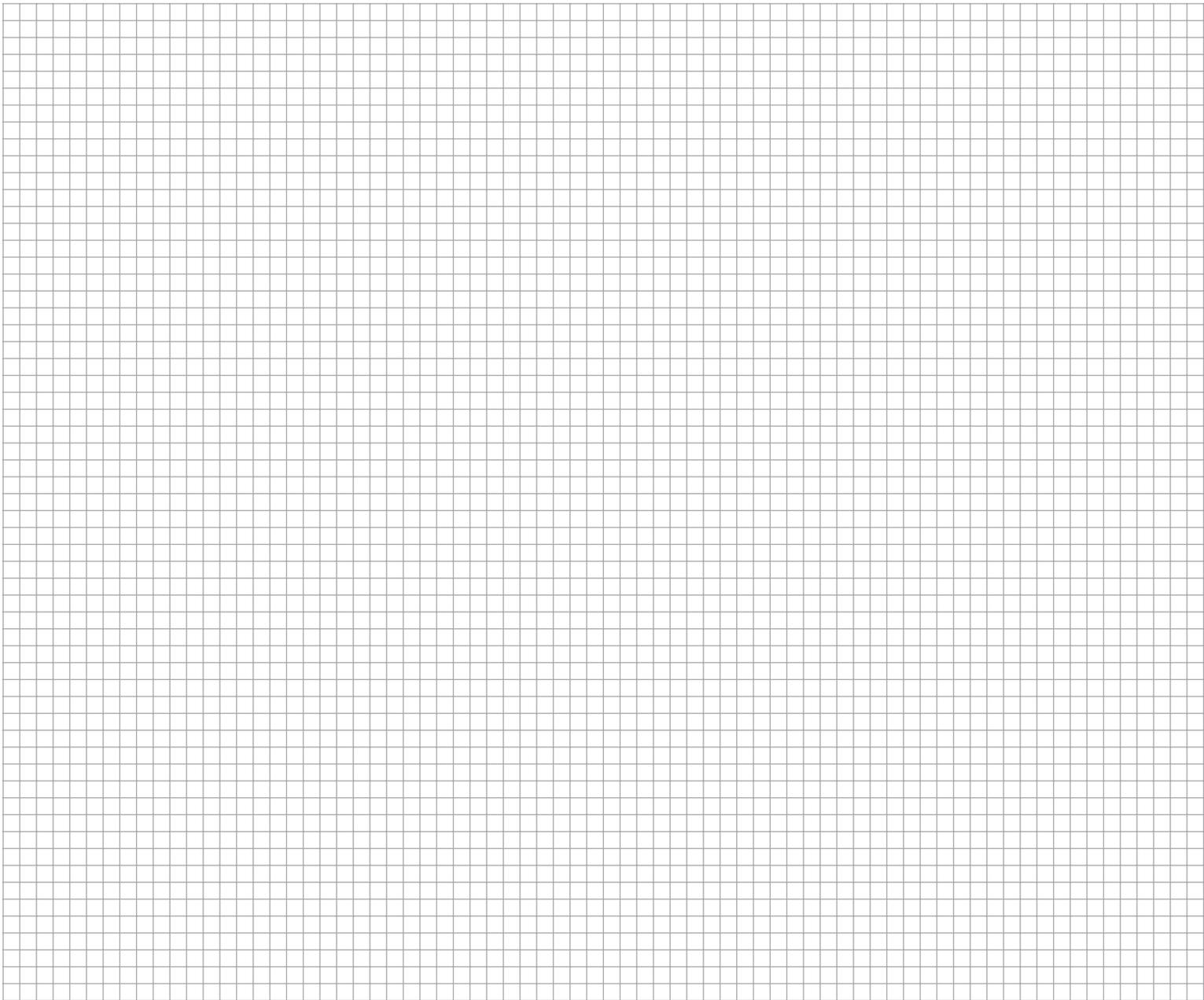
Example



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 ₁	15" x 48"	720 in ²
B ₂	28" x 68"	1904 in ²
B ₃	45" x 72"	3240 in ²
B ₄	25" x 24"	600 in ²
Divide total by 144 to get measurement in ft ²		6464 in ² ÷ 144
Grand Total Heating Cable		44.9 ft²



Area	Dimensions (inches)	Total
A ₁		
A ₂		
A ₃		
A ₄		
Divide total by 144 to get measurement in ft ²		÷ 144
Grand Total Membrane		

Area	Dimensions (inches)	Total
B ₁		
B ₂		
B ₃		
B ₄		
Divide total by 144 to get measurement in ft ²		÷ 144
Grand Total Heating Cable		

Thermostats



DITRA-HEAT-E-RS1
Smart Thermostat



DITRA-HEAT-E-WIFI
Programmable Wi-Fi



DITRA-HEAT-E-RT
Programmable Touchscreen



DITRA-HEAT-E-R
Non-programmable

Power modules for applications exceeding 15 amps:

DITRA-HEAT-E-RRS
For RS1 thermostat

DITRA-HEAT-E-RR
For WIFI, RT and R thermostats

Schluter Systems L.P. 194 Pleasant Ridge Rd. | Plattsburgh, NY | 12901-5841 800-472-4588

Schluter Systems (Canada) Inc. 21100 chemin Ste-Marie | Ste-Anne-de-Bellevue, QC | H9X 3Y8 800-667-8746

schluter.com