



Architect's Specification/Application Guide

- The Warm Tiles electric floor warming system has been designed to gently warm flooring materials such as marble, ceramic and porcelain tile, slate, granite and poured or dimensional stone. **DO NOT** use this product for wood, carpet, vinyl compositions or linoleum type floors. Mats or area rugs not thicker than 1/4" may be placed over the finished flooring.
- Using this product will not affect the integrity of the tile installation. The tile floor should be installed according to the tile manufacturer's specification or other recognized industry specifications. The Warm Tiles product has a Light Commercial Rating based on the requirements of the Tile Council of America when tested according to ASTM C627.
- Using either the **Standard** or **Alternating*** installation pattern, this system generates 12 or 18 watts per square foot, respectively, and will gently warm tile floors to a comfortable level. While in use, this system provides supplemental heat. However, the Warm Tiles system should not be specified as a source of primary heating.
- Specifying the appropriate system requires determining the area to be warmed. First calculate the square footage of the area to be warmed. Areas under base cabinets or fixtures (toilets, sinks, tubs, etc.) **should not be** included. Cable may be applied under showers having tiled floors or precast stone receptors. Consider actual use and traffic patterns when calculating area. Calculate square footage precisely to ensure proper product selection.
- Consult the appropriate supply voltage chart and select/confirm the correct catalog number of the cable(s) recommended for the calculated square footage installed in the pattern (**Standard** or **Alternating**) proper for the installation. Areas exceeding the capability of standard kits may be served by two (or more) separate systems. Call the factory for further guidance if needed.
- The Warm Tiles system is for 120 VAC or 240 VAC operation only. For other voltages, contact the factory.
- To control the system, specify a Warm Tiles floor warming thermostat in either 120VAC and 240VAC. Rated at 16 amps and including a thermistor which must be installed in the floor, the thermostat includes an ON/OFF switch that allows the system to be turned off when not required. Thermostats with set-back feature are also available.
- Connection box should be located in wall cavity directly above where cables will exit wall and enter floor. Sufficient cold lead cable (10 feet) is provided for most installations.
- Each component of the system includes detailed instructions to ensure proper installation.

Easy Heat products are provided with a limited warranty: see Owner's Manual or contact Easy Heat for complete terms and conditions.

Area that cable will heat:			
Standard* Spacing	Alternating** Spacing	Amps	Catalog N° (Quantity)
9 → 13 SQ FT	7 → 9 SQ FT	1.1	FT1011
14 → 18 SQ FT	10 → 13 SQ FT	1.6	FT1016
19 → 26 SQ FT	14 → 19 SQ FT	2.2	FT1022
27 → 34 SQ FT	20 → 26 SQ FT	3.0	FT1030
35 → 42 SQ FT	27 → 33 SQ FT	4.0	FT1039
43 → 54 SQ FT	34 → 39 SQ FT	5.1	FT1048
55 → 65 SQ FT	40 → 48 SQ FT	6.0	(2) FT1030
66 → 75 SQ FT	49 → 56 SQ FT	7.0	FT1030 & 1039
76 → 86 SQ FT	57 → 64 SQ FT	8.0	(2) FT1039
87 → 108 SQ FT	65 → 78 SQ FT	10.2	(2) FT1048

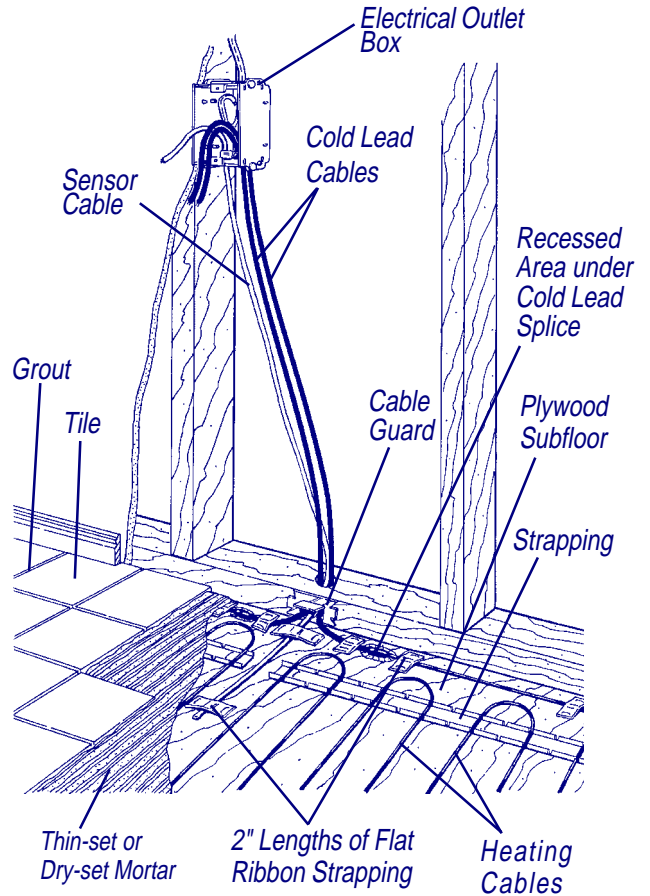
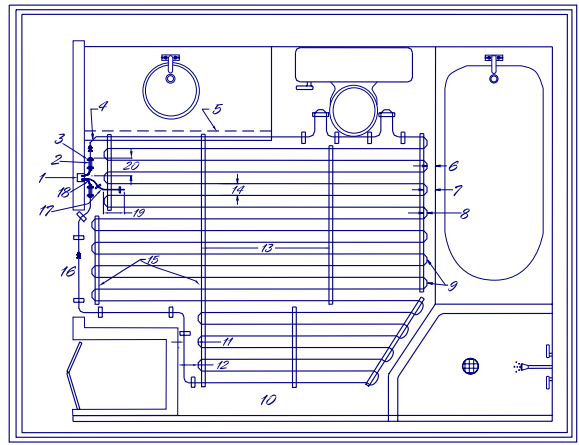
* Use **Standard** spacing on floors that are located above heated areas.
 ** Use **Alternating** spacing on slab floors or in rooms with excessive heat loss, such as solariums.

Area that cable will heat:			
Standard* Spacing	Alternating** Spacing	Amps	Catalog N° (Quantity)
18 → 25 SQ FT	13 → 19 SQ FT	1.1	FT 2021
26 → 35 SQ FT	20 → 27 SQ FT	1.6	FT 2031
48 → 55 SQ FT	35 → 44 SQ FT	2.6	FT 2053
60 → 70 SQ FT	45 → 54 SQ FT	3.3	FT 2065
71 → 83 SQ FT	55 → 63 SQ FT	4.0	FT 2078
90 → 100 SQ FT	64 → 75 SQ FT	5.1	FT 2095
110 → 130 SQ FT	84 → 94 SQ FT	6.3	FT 2118
131 → 145 SQ FT	95 → 108 SQ FT	7.5	FT 2137
146 → 165 SQ FT	109 → 125 SQ FT	8.4	FT 2157
166 → 184 SQ FT	126 → 138 SQ FT	8.8	FT 2175
185 → 204 SQ FT	139 → 153 SQ FT	9.6	FT 2195
205 → 225 SQ FT	154 → 169 SQ FT	10.7	FT 2215

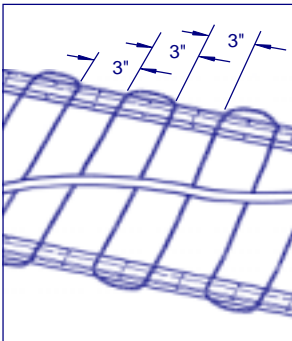
* Use **Standard** spacing on floors that are located above heated areas.
 ** Use **Alternating** spacing on slab floors or in rooms with excessive heat loss, such as solariums.



1. **Electrical Connection Box or ECB.** The Start End and Return End of the Warm Tiles® cable are connected to the power supply/Thermostat Kit within the electrical connection box (ECB) here.
2. **Splice.** Factory connection between cold lead and heating cable, one at each end. Because of the slightly greater thickness of the cable here, the splice is usually recessed into flooring approximately ¼".
3. **Ribbon Strapping.** 12" pieces of flat plastic; cut as needed to hold splices and sensor wire securely.
4. **Start End.** Cold lead/heating cable end laid first.
5. **Vanity Kick Plate.** Recessed portion at base of installed cabinet.
6. **Dimension=1.5".** Minimum dimension between heating cable and wall/fixture.
7. **Border.** Space around perimeter of room. This space may vary from 2" to 6" to fit the range of room configurations and areas per cable set.
8. **Dimension=1".** This is the maximum allowable arc designed to ensure the optimum holding force.
9. **Return Loops.** Heating cable passed out of the plastic strapping, forming a 1" arc, and returned through the strapping.
10. **Low Traffic Area.** Typically this area is little used. Heating cable can be omitted or compressed to ensure that each cable set fits a range of room configurations and areas.
11. **Dimension=3".** Typical distance between runs of heating cable.
12. **Dimension=4.5".** This is the distance between Return Loops of heating cable runs-(3") and border cable and minimum dimension (6, above) advisable between heating cable and wall/fixture, adjacent wall (1.5").
13. **Strapping Spacing.** For **Standard** cable spacing, strap placement is recommended at 30" to 36" intervals. For **Alternating** cable spacing, 18" to 24" intervals are recommended.
14. **Dimension=3" or Standard Spacing.** 3" heating cable spacing between runs. (**Alternating** spacing runs are 3" then 1½").
15. **Plastic Strapping.** Strapping used to secure heating cable. Cut as needed from coils of 25 ft. Use long lengths for main area to be heated and shorter pieces for start and return ends.
16. **Return End.** Heating cable/cold lead which is laid last then pulled up into ECB and connected to control/power supply.
17. **Sensor Wire.** If any one of Easy Heat's Thermostat Kits is installed, it is necessary to install this sensor wire. The sensor wire relays changes in floor temperature to the controller for constant temperature maintenance.
18. **Cold Lead.** This part of the cable set is spliced to the heating cable at both ends and connected to the power supply/Thermostat Kit. It is the only part of the cable that can be cut to suit the location of the ECB.
19. **Dimension=6".** Distance sensor wire should extend into the heated area. It should be positioned midway between two heating cable runs.
20. **Dimension=12".** Splice between cold lead and heating cable should be located within 12" of wall cavity.

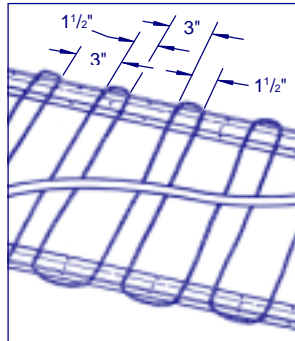


Standard Installation
3" spacing



A typical installation, such as over a wood sub-floor

Alternating Installation
3"+1.5" Spacing



For special installations: concrete slabs, solariums, areas above unheated spaces such as garages

