

Worksheet 1 of 1

Quote #: 123456 (Rev. 1)
 Date: 20-Apr-2007
 Company: John Doe Contracting, Inc.
 Project: Example Project - Master Bath

| | |
|---------------------|-----------------|
| Area To Be Heated: | Master Bathroom |
| Size Of Area (ft²): | 177.1 ft² |
| Floor Covering: | Tile |

| | | |
|---|-----|-------|
| Required Net Power For Floor Heating: | 3.5 | W/ft² |
| Estimated Power Of Area: | 3.7 | W/ft² |
| Estimated Net Power (Project Entirety): | 3.7 | W/ft² |

| | |
|--------------|---------------|
| Floor Level: | 1st Floor |
| Subfloor: | Slab On Grade |

| | | |
|--|-------|--------|
| Total Element Length (Project Entirety): | 72.75 | ft |
| Total Number Of Strips (Project Entirety): | 10 | pieces |

Thermal Insulation is REQUIRED under elements. Please refer to the STEP Handbook™ (section 6) for details.

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|---------------|---------------------|--------------------------------------|---|---|
| Service Panel | High Magnetic C.B.* | 1.25 (Safety Factor) x Primary Amps: | 7 | A |
|---------------|---------------------|--------------------------------------|---|---|

NOTE: *Use GE THQL11XXHM C.B. or equivalent (XX = Amps)

| | | | |
|----------------|---------------------|---|-------------------------------|
| Control Device | EPI-LX-TH (Master)* | 1 | (Non-Programmable Thermostat) |
|----------------|---------------------|---|-------------------------------|

NOTE: *EPI-LX-SEN floor temperature sensor available upon request.

| | | | | | | | |
|--------------|---------------|-----|---------------|------|-----------------|------|---|
| Power Supply | EPI-LX-R-1000 | 120 | VAC Primary | 60Hz | Primary Amps: | 5.5 | A |
| 1 of 1 | | 24 | VAC Secondary | | Secondary Amps: | 27.3 | A |

| | Maximum Wire Length | | Element I.D. / Model | | | | | | Output | Width | Length | Amps | | | | |
|---|-------------------------|--------------|----------------------|-----------------|-----------------|---------------|-------|------|--------|-------|-------------------------|------|-------|------|------|---|
| 1A → | 14AWG | 15 ft | #1 | EP-30-2-29W-24V | 9 W/ft @ 68°F | 12" | 6.75 | ft | 2.6 | A | Total (1A + 2A): | 43.5 | ft | 16.3 | A | |
| | 12AWG | 24 ft | + #2 | EP-30-2-29W-24V | 9 W/ft @ 68°F | 12" | 12.25 | ft | 4.6 | A | | | | | | |
| | | 10AWG | 38 ft | | | | | | | | | | | | | |
| | | 8AWG | 55 ft | | | | | | | | | | | | | |
| | | 6AWG | 88 ft | | | | | | | | | | | | | |
| | 4AWG | 140 ft | | | | | | | | | | | | | | |
| 2A → | 14AWG | 11 ft | #3 | EP-30-2-29W-24V | 9 W/ft @ 68°F | 12" | 12.25 | ft | 4.6 | A | | | | | | |
| | 12AWG | 19 ft | + #4 | EP-30-2-29W-24V | 9 W/ft @ 68°F | 12" | 12.25 | ft | 4.6 | A | | | | | | |
| | | 10AWG | 30 ft | | | | | | | | | | | | | |
| | | 8AWG | 43 ft | | | | | | | | | | | | | |
| Wattage 391.5 W (1A + 2A) | 6AWG | 68 ft | | | | | | | | | | | | | | |
| | 4AWG | 109 ft | | | | | | | | | | | | | | |
| | 1B → | 14AWG | 18 ft | #5 | EP-30-2-29W-24V | 9 W/ft @ 68°F | 12" | 5.25 | ft | 2.0 | A | | | | | |
| | | 12AWG | 29 ft | + #6 | EP-30-2-29W-24V | 9 W/ft @ 68°F | 12" | 5.25 | ft | 2.0 | A | | | | | |
| | | 10AWG | 47 ft | + #7 | EP-30-2-29W-24V | 9 W/ft @ 68°F | 12" | 5.25 | ft | 2.0 | A | | | | | |
| | | 8AWG | 67 ft | | | | | | | | | | | | | |
| Wattage 263.25 W (1B + 2B) | 6AWG | 106 ft | | | | | | | | | | | | | | |
| | 4AWG | 169 ft | | | | | | | | | | | | | | |
| | 2B → | 14AWG | 21 ft | #8 | EP-30-2-29W-24V | 9 W/ft @ 68°F | 12" | 5.25 | ft | 2.0 | A | | | | | |
| | | 12AWG | 34 ft | + #9 | EP-30-2-29W-24V | 9 W/ft @ 68°F | 12" | 3 | ft | 1.2 | A | | | | | |
| | | 10AWG | 54 ft | + #10 | EP-30-2-29W-24V | 9 W/ft @ 68°F | 12" | 5.25 | ft | 2.0 | A | | | | | |
| | | 8AWG | 78 ft | | | | | | | | | | | | | |
| Wattage 263.25 W (1B + 2B) | 6AWG | 124 ft | | | | | | | | | | | | | | |
| | 4AWG | 198 ft | | | | | | | | | | | | | | |
| | Total (1B + 2B): | | | | | | | | | | | | 29.25 | ft | 11.0 | A |

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|-----------------------|-----------------|--------------------------------|------------------|-------------------------------|--------------|-----------|-------------|----------|
| Total Wattage: | 654.75 W | Total Number Of Strips: | 10 pieces | Total (All Terminals): | 72.75 | ft | 27.3 | A |
|-----------------------|-----------------|--------------------------------|------------------|-------------------------------|--------------|-----------|-------------|----------|