

# Radiant Panel Summary

Project #: 39981

Date: Dec 22, 2015

Prepared For:

Total Area: 2,287 ft<sup>2</sup>

Total Heat Load: 33,625 Btu/hr

Total Flowrate: 3.5 USGPM

Maximum Head Loss: 4.2 ft(H<sub>2</sub>O)

## 1st Floor

| Room     | Heating | Zone # | Heated Area | Unheated Area | Construction          | Attachment Method | Tube Type   | Tube Spacing | Ldr. Len | Loop Length | # Loops | Room Load per ft <sup>2</sup> | Surface Temp | Design Temp Drop | Flowrate (Total) | Head Loss | Fluid Temp Req. | Fluid Temp Supplied |
|----------|---------|--------|-------------|---------------|-----------------------|-------------------|-------------|--------------|----------|-------------|---------|-------------------------------|--------------|------------------|------------------|-----------|-----------------|---------------------|
| Kitchen  | Floor   | 1      | 238         | 38            | Suspended / Joist 16" | Quik Trak         | hePEX 5/16" | 7            | 10       | 224         | 2       | 10.4                          | 73.2         | 20               | 0.27             | 2.7       | 99              | 121                 |
| Dining   | Floor   | 2      | 150         | 0             | Suspended / Joist 16" | Quik Trak         | hePEX 5/16" | 7            | 10       | 149         | 2       | 12.2                          | 74.1         | 20               | 0.21             | 1.2       | 121             | 121                 |
| Foyer    | Floor   | 4      | 68          | 0             | Suspended / Joist 16" | Quik Trak         | hePEX 5/16" | 7            | 10       | 137         | 1       | 16.9                          | 76.4         | 20               | 0.13             | 1.4       | 124             | 136                 |
| Living   | Floor   | 5      | 208         | 0             | Suspended / Joist 16" | Quik Trak         | hePEX 5/16" | 7            | 10       | 199         | 2       | 15.6                          | 75.8         | 20               | 0.37             | 3.8       | 136             | 136                 |
| Family   | Floor   | 3      | 234         | 0             | Suspended / Joist 16" | Quik Trak         | hePEX 5/16" | 7            | 10       | 221         | 2       | 11                            | 73.5         | 20               | 0.30             | 3.0       | 122             | 136                 |
| 4 Season | Floor   | 11     | 448         | 0             | Suspended / Joist 16" | Joist Trak Plates | hePEX 1/2"  | 8            | 10       | 244         | 3       | 16.2                          | 76.1         | 20               | 0.79             | 0.89      | 130             | 130                 |
| 1/2 Bath | Floor   | 1      | 20          | 0             | Suspended / Joist 16" | Quik Trak         | hePEX 5/16" | 7            | 10       | 55          | 1       | 10.4                          | 73.2         | 20               | 0.02             | 0.04      | 102             | 121                 |
| Laundry  | Floor   | 1      | 42          | 0             | Suspended / Joist 16" | Quik Trak         | hePEX 5/16" | 7            | 10       | 92          | 1       | 14.6                          | 75.3         | 20               | 0.07             | 0.34      | 116             | 121                 |

## 2nd Floor

| Room           | Heating | Zone # | Heated Area | Unheated Area | Construction          | Attachment Method | Tube Type   | Tube Spacing | Ldr. Len | Loop Length | # Loops | Room Load per ft <sup>2</sup> | Surface Temp | Design Temp Drop | Flowrate (Total) | Head Loss | Fluid Temp Req. | Fluid Temp Supplied |
|----------------|---------|--------|-------------|---------------|-----------------------|-------------------|-------------|--------------|----------|-------------|---------|-------------------------------|--------------|------------------|------------------|-----------|-----------------|---------------------|
| Master Closet  | Floor   | 6      | 56          | 0             | Suspended / Joist 16" | Quik Trak         | hePEX 5/16" | 7            | 10       | 116         | 1       | 14.5                          | 75.3         | 20               | 0.09             | 0.69      | 139             | 139                 |
| Master Bath    | Floor   | 6      | 80          | 0             | Suspended / Joist 16" | Quik Trak         | hePEX 5/16" | 7            | 10       | 158         | 1       | 14.1                          | 75.1         | 20               | 0.12             | 1.5       | 115             | 139                 |
| Master Bedroom | Floor   | 7      | 225         | 0             | Suspended / Joist 16" | Quik Trak         | hePEX 5/16" | 7            | 10       | 213         | 2       | 12.5                          | 74.2         | 20               | 0.32             | 3.2       | 129             | 139                 |
| Hallway        | Floor   | 6      | 72          | 0             | Suspended / Joist 16" | Quik Trak         | hePEX 5/16" | 7            | 10       | 144         | 1       | 7.3                           | 71.6         | 20               | 0.06             | 0.40      | 96              | 139                 |
| Guest Bath     | Floor   | 6      | 54          | 0             | Suspended / Joist 16" | Quik Trak         | hePEX 5/16" | 7            | 10       | 113         | 1       | 15.1                          | 75.5         | 20               | 0.09             | 0.63      | 118             | 139                 |

Area = ft<sup>2</sup>; Spacing = in; Length = ft; Unit Heat = Btu/hr/ft<sup>2</sup>; Temperature = °F; Flow Rate = USGPM; Head Loss = ft(H<sub>2</sub>O)

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|---------------|---------|--------|-------------|---------------|-----------------------|-------------------|-------------|--------------|----------|-------------|---------|-------------------------------|--------------|------------------|------------------|-----------|-----------------|---------------------|
| Guest Bedroom | Floor   | 8      | 110         | 0             | Suspended / Joist 16" | Quik Trak         | hePEX 5/16" | 7            | 10       | 209         | 1       | 13.9                          | 75           | 20               | 0.17             | 3.4       | 121             | 142                 |
| R Office      | Floor   | 9      | 144         | 0             | Suspended / Joist 16" | Quik Trak         | hePEX 5/16" | 7            | 10       | 144         | 2       | 19.2                          | 77.6         | 20               | 0.30             | 2.0       | 142             | 142                 |
| J Office      | Floor   | 10     | 100.3       | 0             | Suspended / Joist 16" | Quik Trak         | hePEX 5/16" | 7            | 10       | 192         | 1       | 18                            | 77           | 20               | 0.20             | 4.2       | 137             | 142                 |

Area = ft<sup>2</sup>; Spacing = in; Length = ft; Unit Heat = Btu/hr/ft<sup>2</sup>; Temperature = °F; Flow Rate = USGPM; Head Loss = ft(H<sub>2</sub>O)