



## Radiant Floor

Surface Temperatures

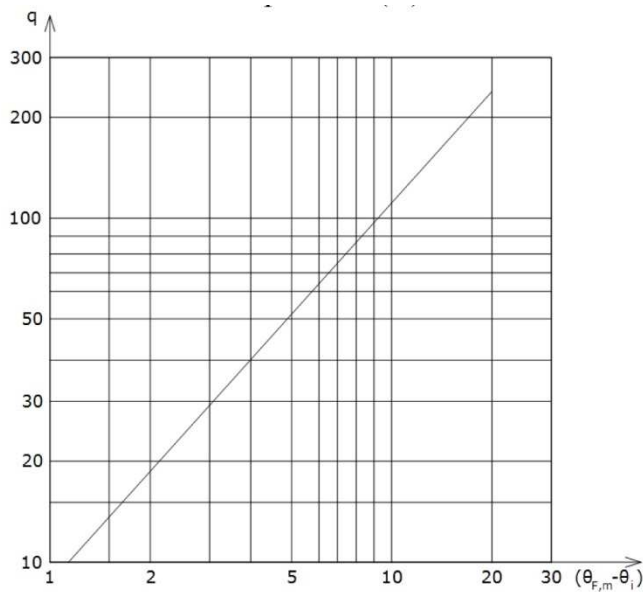
Floor Surface Temperature = (BTU/h/ft<sup>2</sup> ÷ 2) + Room Setpoint

|               |      |                       |      |      |      |      |      |      |      |       |       |
|---------------|------|-----------------------|------|------|------|------|------|------|------|-------|-------|
| Room setpoint | 75°F | 80.0                  | 82.5 | 85.0 | 87.5 | 90.0 | 92.5 | 95.0 | 97.5 | 100.0 | 102.5 |
|               | 72°F | 77.0                  | 79.5 | 82.0 | 84.5 | 87.0 | 89.5 | 92.0 | 94.5 | 97.0  | 99.5  |
|               | 70°F | 75.0                  | 77.5 | 80.0 | 82.5 | 85.0 | 87.5 | 90.0 | 92.5 | 95.0  | 97.5  |
|               | 68°F | 73.0                  | 75.5 | 78.0 | 80.5 | 83.0 | 85.5 | 88.0 | 90.5 | 93.0  | 95.5  |
|               | 65°F | 70.0                  | 72.5 | 75.0 | 77.5 | 80.0 | 82.5 | 85.0 | 87.5 | 90.0  | 92.5  |
|               | 60°F | 65.0                  | 67.5 | 70.0 | 72.5 | 75.0 | 77.5 | 80.0 | 82.5 | 85.0  | 87.5  |
|               |      | 10.0                  | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 | 45.0 | 50.0  | 55.0  |
|               |      | BTU/h/ft <sup>2</sup> |      |      |      |      |      |      |      |       |       |

 Exceeds the maximum recommended surface temperature for hardwood floors

 Exceeds the maximum recommended surface temperature for all floors

بر اساس استاندارد EN-1264



$\theta_i$ : دمای هوای داخل °C

$\theta_{F,m}$ : متوسط دمای کف °C

$q$ : گرمای دریافتی  $W/m^2$

$$q = 8.92(\theta_{F,m} - \theta_i)^{1.1}$$