



North East Hydronic Radiant Inc.

Manufacturer of Sunboard Radiant Heat Panels

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Sunboardpanel™ vs. Concrete and Sleepers

Stress added to home

Sunboard ½" x ¾" Silver Plywood

1 panel 2' x 4' x ¾" @ 14.2lbs

23 x 14.2lbs = 326.6lbs Total

326.6lbs divided by 180 sq. ft. = 1.81lbs per sq. ft. of added stress, no issues.

Concrete and Sleepers

180 sq. ft. = 2992.5lbs (see concrete calculator)

2992.5lbs divided by 180 sq. ft. = 16.62lb per sq. ft.

Sleepers 2" x 4" x 8' @ 28pcs. x 10lbs = 280lbs.

280lbs divided by 180 sq. ft. = 1.55 per sq. ft.

Wire Mesh

5lbs x 10pcs = 50lbs

Felt Paper

36lbs. divided by 432 sq. ft. = .083lbs = 15lbs

180 sq. ft. Gross Room Size

66 sq. ft. Sleepers

114 sq. ft. Of Concrete

Concrete Weight

114 sq. ft. x 16.6lbs = 1892.4lbs

Sleeper System Weight

2" x 4" x 8' @ 10lbs x 28pcs. = 280lbs

Wire Mesh

1 sheet @ 5lbs x 10pcs. = 50lbs

Felt Paper

1 Roll = 36lbs divided by 432 = .083lbs

180 sq. ft. x .083lbs =

15lbs
2237.4lbs Total stress weight on 180 sq. ft. room

2237.4lbs divided by 180 sq. ft. = 12.43lb per sq. ft. of additional stress weight on floor joists.
Recommendation check with Architect or Engineer to see if structure can support the extra weight.

Concrete Calculator


The Concrete Calculator can be used to estimate the volume and weight of the concrete you will need for the size, or area, of the land that needs to be covered. When purchasing, we suggest that you buy a little more than the calculated result.

Slabs, Square Footings, or Walls

Result


22.5 cubic feet or 0.833 cubic yards or 0.637 cubic meters.
If pre-mixed concrete*, it is 2,992.5 lbs or 1,357.086 kgs.
If 60 lbs per bag, it is 49.875 bags.
If 80 lbs per bag, it is 37.406 bags.

Length: 15 foot
Width: 12 foot
Thickness or Height: 1.5 inch
Quantity: 1



Hole, Column, or Round Footings

Diameter: 2.5 foot
Depth or Height: 6 foot
Quantity: 1



Circular Slab or Tube

Outer Diameter: 5 foot
Inner Diameter: 4 foot
Length or Height: 6 inch
Quantity: 1

