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**Concrete Floor  
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Guide**

The Euclid Chemical Company originally developed this floor design guide in order to integrate current design standards with proper construction practices and the selection of suitable materials. This updated edition reflects the current standards on

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floor slab construction that are found in ACI 302.1R-04, Guide for Concrete Floor and Slab Construction.

**Concrete Floor  
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Guide - Resin  
Flooring Group**

Production of a quality concrete slab requires proper techniques and adequate planning.

The following key e  
Floor and Slab

Construction are given

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where appropriate. 1.

**Subgrade** The subgrade must be properly compacted and drained in order to give the bearing support assumed in design. Without support, the slab has little chance of supporting design loads

**Euclid Chemical -  
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The objective of this design guide is to assist the design professional in choosing an appropriate reinforced concrete floor system for situations where the effects from vibration must be considered and to provide simplified methods to determine key vibration characteristics of reinforced concrete floor systems that can

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be used to evaluate whether the anticipated vibration will be acceptable or not.

## **Design Guide for Vibrations of Reinforced Concrete Floor ...**

Designed to span in either one direction ( one-way) or both directions ( two-way) of a structural bay, the range of concrete floor systems available are



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created to economically and efficiently account for the numerous and specific demands of each building project. During the design process, especially the initial planning stages of a project, the inherent expenses of concrete (30% cost), reinforcement (15% cost), and formwork (55% cost) should be considered and evaluated when

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**Tensioned concrete  
Floor Systems**

Concrete Floor Slab. In typical office environments, the concrete floor slab itself is comprised of 4" to 6" thick concrete reinforced with one layer of welded wire fabric at mid depth, unless below the water table, when hydrostatic heads may exert upward pressure, requiring stronger construction.

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## **Floor Slabs | WBDG - Whole Building Design Guide**

A concrete floor works well with ICFs because concrete walls can carry the floor's greater weight without special provisions. Four types of concrete floor systems are used in ICF home construction: concrete on steel joists, concrete on steel deck, concrete slab and joist, and

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precast concrete.

**Concrete Floor  
Systems in  
Residential  
Construction ...**

within concrete slabs,  
were installed and  
used success- ... The  
Open System heater,  
to provide both floor  
heating and domestic  
hot water. The two  
systems are basically  
tied together. The ...  
demand heater or tank  
type) and by the guide-

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lines listed on the anti-freeze container.

Closed

## **Design & Installation Manual - DIY Radiant Floor Heating**

If you are new to radiant heat, our Design and Construction Manual is a "Must Read!" This manual provides a wealth of general information about radiant heat. Slab insulation methods,

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calculating heat loss, tubing options, system options and much more, all written in easy to understand language for the homeowner with pictures and diagrams.

## **Design and Construction Manual - Radiantec**

The Design Guide for Vibrations of Reinforced Concrete Floor Systems was published in 2014, and

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stakes a claim as “The First Design Guide Developed to Assist Structural Engineers with Vibration Analysis of Reinforced Concrete Floor Systems.” The contents are as follows:  
Chapter 1.

## **CRSI "Design Guide for Vibrations of Reinforced Concrete**

...

More information on their use, including worked-out design



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examples for commonly used reinforced concrete floor systems, can be found in the Design Guide for Vibrations of Reinforced Concrete Floor Systems (Fanella and Mota, 2014). Approximate equations for natural frequency of reinforced concrete floor systems.

**STRUCTURE**  
**magazine | Vibration**  
**of Reinforced**

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The design and layout of concrete floor radiant heat is often complex and typically should be done by a certified radiant heating professional, rather than the concrete contractor. A lot of planning and teamwork early in the process will help ensure a successful installation, says the Radiant Panel Association, in its 2008

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## **Radiant Floor Heat Design and Installation Tips**

Concrete floor systems are reinforced slab structures designed to satisfy a range of loading and span conditions in a building. Concrete floor systems are designed to span in either one direction (one-way) or both directions (two-way) of a structural

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**Two-Way Concrete  
Flat Slab Floor  
System Dimensions**

...

Course Summary This course integrates current design standards with proper construction practices and the selection of suitable materials. This updated edition reflects the current standards on floor slab construction that are

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found in ACI  
302.1R-04, Guide for  
Concrete Floor and  
Slab Construction.

## **PDH Course - Concrete Floor Systems Design Guide**

Lay down at least 2" of rigid foam insulation. Extruded or expanded polystyrene is the material of choice. Radiantec doesn't recommend using radiant barriers or

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## Concrete Floor Systems Design

“bubble wrap” insulation for radiant floor heating. Install the wire mesh or rebar for the concrete slab.

### **Installing Pex Tubing for Concrete Slab Underfloor Heating ...**

Before a concrete slab is poured, tubes or electric heating elements are placed and attached to wire mesh. Concrete is then poured over the tubing

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to within two inches of  
the concrete surface  
(depending upon the  
design and installation  
technique. Read more  
about types of radiant  
floor heating systems  
from the Radiant Panel  
Association.

## **Radiant Floor Heat - Concrete Floors**

One-Way Wide Module  
(Skip) Joist Concrete  
Floor System Design. A  
typical floor plan of a  
5-story office building

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## Concrete Floor Systems Design

is shown below. Wide-module joists, or “skip” joists, are similar to standard one-way joists, except the pans are 53 in. or 66 in. wide.

### **One-Way Wide Module (Skip) Joist Concrete Floor System Design**

Damping has an inherently high variability that is difficult to determine before a floor system is



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placed in service. The recommended values from reference [Allen, D.E., and Murray, T. M., 1993] vary from 2-3% for bare concrete floors to 5-8% with full height partitions. Damping factors suggested in the same reference are listed in Table 1.

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