

**NC Department of Insurance
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Low-Rise Residential Heated Slab Requirements

Code: 2012 Energy Conservation Code
Section: 402.1.1

Date: July 3, 2012

Question:

What are the prescriptive insulation requirements for “heated slabs” for low-rise residential buildings?

Answer:

Section 402.1.1 refers to Table 402.1.1 for the building thermal envelope insulation requirements. Note "d" in the table refers to slab R-value requirements and states in part that R-5 shall be added to the slab edge R-values contained in the table for heated slabs. A “heated slab” is defined in the code as:

Slab-on-grade construction in which the heating elements, hydronic tubing, or hot air distribution system is in contact with, or placed within or under, the slab.

Note that the slab edge insulation requirement can be traded-off against other building thermal envelope components when using the REScheck energy compliance program.

Keywords:

slab insulation