

**NC Department of Insurance
Office of the State Fire Marshal - Engineering Division
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Low-Rise Residential Heated Slab

Code: 2002 Energy Code

Date: November 1, 2004

Section: 502.2.4.11

Question:

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

Answer:

Section 502.2.4.11 states R-2 shall be added to the value identified in the "Slab perimeter R-value" of Table 502.2.4 when the slab is heated. A heated slab is defined as slab-on-grade construction in which the heating elements or hot air distribution system is in contact with or placed within the slab or sub-grade.

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