

**NC Department of Insurance
Office of the State Fire Marshal - Engineering Division
1202 Mail Service Center, Raleigh, NC 27699-1202
919-661-5880**

HVAC Zoning for Single Family Dwellings

Code: 2012 Energy Code
Section: 202

Date: July 3, 2012

Question:

Can a two-story single family dwelling be considered a single HVAC zone?

Answer:

Yes, subject to a conditional performance requirement. A “Zone” is defined in Chapter 2 as:

A space or group of spaces within a building with heating or cooling requirements, or both, sufficiently similar so that comfort conditions can be maintained throughout by a single controlling device.

ACCA (Air Conditioning Contractors of America) Manual D “Residential Duct Systems” indicates the maximum allowable temperature difference between any two rooms in a single zone is 4 degrees Fahrenheit.

Keywords:

Residential HVAC Zone, thermostat