



News from the Mechanical Inspectors

September 2009

Office Information

For permits, requests for inspections, information on status of permits or just looking for newsletters that have already been published go to

www.inspectnet.org

Looking for inspector Territory Maps? Go to

www.cityofws.org/Home/Departments/Inspections/Articles/FormsAndFees

2009 NC Mechanical Code and Gas Code:

July 1st 2009 will be the date you will need to begin using the 2009 Codes. Any system installed after June 30, 2009 will need to be installed using the 2009 Codes.

Questions from Contractors

1. What material is required to protect copper gas line outside above ground?

Answer: See Section 404.7 of the 2009 NC Gas Code Above-ground outdoor piping. Also, see interpretation from DOI on this section. See below.

PVC schedule 40 is required to protect copper gas line from a point 3 inches below grade to a point of 3 feet above grade.

3. Why have my inspections been failed for clearance to the plenums from combustibles?

Answer: See section 603.11 of the 2009 NC Mechanical Code.

Furnace connections. Ducts connecting to a furnace shall have a clearance to combustibles in accordance with the furnace manufactures installation instructions. See definition of furnace, if

2. Why do I have to use a radiation damper in a plenum that penetrates a rated ceiling and not a fire damper?

Answer: See section 607.6.2 of the 2009 NC Mechanical Code. Membrane penetration. The rated ceiling above the air handler that the duct penetrates is a rated membrane and is part of the floor ceiling assembly rating. The code under item 2 in this section requires a ceiling damper be installed in the penetration and not a fire damper. Ceiling radiation dampers must be tested in accordance with UL 555C and installed as per the manufactures instructions. Remember to provide installation instructions on job site for the inspector to perform the inspection when requested.

you have a commentary to the code please read the fuel types that are referenced. Most people think a furnace is fired only by fossil fuel but the commentary lists electric as a fuel type also.

Please read your manufactures installation instructions, most require 1 or 2 inch clearance to combustibles from the duct connections or plenums.



Hoping for a hot summer, we all need the work.

If you wish to have your questions included in our monthly newsletter, Please send to miken@cityofws.org
Thanks, Michael Norris, Senior Mechanical Inspector 336-727-2382

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