



Lancaster County, South Carolina

Building Department

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www.mylancastersc.org

2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

Effective – January 1, 2013

The South Carolina General Assembly passed a bill to implement the 2009 International Energy Conservation Code (IECC) on January 1, 2013. This code will require new construction projects (residential and commercial) to meet a more restrictive design for energy compliance, resulting in more energy savings for consumers in the current market. With the latest innovative energy designs this code allows the trade-off of different components of construction for more insulation and air sealing methods.

Please check the Lancaster County Building Department web-site at www.mylancastercountysc.net for further information. The following information consists of highlights of the 2009 IECC for residential and commercial applications. Complete submittal requirements, per application, can be found in the 2009 IECC.

DOCUMENTS REQUIRED AT TIME OF SUBMITTAL:

Manual-J 8th edition: Verifying the equipment is properly sized for the home.

Manual-D 2009 version: Verifying the duct is properly sized.

REScheck: Verifying the insulation values are correct for residential applications.

CommCheck: Verifying the insulation values are correct for commercial applications.

CERTIFICATE:

Verifying proof of an approved contractor, or approved third-party inspector for visual inspection for the following:

1. All new one and two family dwellings
2. New commercial projects and commercial up-fit projects where a change of use occurs or expansion of an existing building.
3. Townhome projects.
4. Additions to existing dwellings which include the installation of new mechanical equipment.

EQUIPMENT CHANGE OUTS:

For mechanical equipment change-out such as furnaces, gas packs, and circulation hot water systems, the equipment will be subject to the latest requirements such as programmable thermostats, insulation of water lines, etc.

Manual-J for change-outs on residential systems, if the system includes duct system change out, a duct blaster test and Manual-D will be required on the system.

REQUIREMENTS FOR AIR-BARRIERS:

Basic requirements for contractor sign-off visual inspection for Air-Barrier on their projects. Provide current certification from one of the following programs:

1. A HERS Rater is a nationally recognized certificate program developed by the non-profit RESNET organization. This certificate verifies that those individuals have an extensive understanding of building science principals with a proficiency performing blower door and duct leakage testing. Annual quality control for HERS Raters to maintain their certification is done through a provider organization approved by RESNET (www.RESNET.us).
2. The HERS Rater has another subset certification called a Field Inspector. Field Inspectors must pass a written test on building science principals and demonstrate proficiency for

performing blower door and duct leakage testing. Annual quality control for Field Inspectors is provided by HERS Rater (www.RESNET.us).

3. BPI (Building Performance Institute) has a certification program called Building Envelope Specialist. This certificate verifies that those individuals have an extensive understanding of building science principals with proficiency performing blower door and duct leakage testing. This certification is good for 3 years. No annual quality control review is required (<http://www.bpi.org>).
4. A certificate from the South Carolina Energy Office approved class from England Enterprise Inc. including attendance of the class (www.ibcode.net). An Energy Efficiency Certificate will be required to be submitted at time of permit application or by other approved 3rd party. Contractors may perform this visual inspection in-lieu of providing a blower door test.

REQUIREMENTS FOR DUCT BLASTER TEST:

A duct blaster test measures the leakage of the duct system and will be required prior to issuance of any Certificate of Occupancy.

This test shall be performed by a certified individual for the equipment being used and performed at the rough-in phase with an air handler installed meeting 6-cfm per 100 sq/ft or without an air handler installed resulting in 4-cfm per 100 sq/ft. The test may also be performed at the final stage showing a total leakage in the system of 12-cfm per 100 sq/ft, leakage to the outside at 8-cfm 100 sq/ft.

Our office must receive this report prior to scheduling Final inspections. Final inspections will not be scheduled and conducted without this report.