



## HOW TO SHOW COMPLIANCE WITH ENERGY CONSERVATION REQUIREMENTS IN THE 2013 RESIDENTIAL CODE OF OHIO FOR 1, 2 AND 3 FAMILY DWELLINGS

Effective January 1, 2013, the 2013 Residential Code of Ohio (RCO) went into effect, and now requires that all construction of 1, 2 and 3 family dwellings comply with more stringent energy conservation standards.

Construction documents submitted for permits must include information showing compliance, both graphically on the drawings, and by identifying how you intend to comply using one of the following compliance paths:

1. Show compliance with prescriptive requirements in RCO Section 1105, the Ohio Home Builders Association (OHBA) alternative energy code option. Form 1 below can be used to show compliance, and would need to be submitted with your permit application.
2. Show compliance with prescriptive requirement in RCO Section 1101 through 1104. Form 2 below can be used to show compliance, and would need to be submitted with your permit application.
3. Submit a Trade-Off analysis or a Performance analysis per the 2009 International Energy Conservation Code (IECC).

Several computer programs are available to generate a Trade-Off or Performance analysis showing compliance with the 2009 IECC. One of the most popular Trade-Off analysis programs is REScheck, available free from the Department of Energy at [www.energycodes.gov](http://www.energycodes.gov). (Be aware that it is a lengthy download.)

The DOE also has an online version of REScheck you can use without downloading the whole program. Its website also contains a great deal of other good information about constructing energy tight buildings.

RemRate is another popular Performance Analysis program, but it is not free. For additional software options, check the Department of Energy directory of energy analysis programs at [http://apps1.eere.energy.gov/buildings/tools\\_directory](http://apps1.eere.energy.gov/buildings/tools_directory), or refer to the 2009 IECC.

At the completion of construction, an Energy Efficiency Certificate must be attached to, or in, the electrical panel, before the final inspection. Some computer programs such as REScheck generate such a certificate as part of the analysis, or you may fill out and use the one referenced below.

If you have questions, you are welcome to contact our Residential Plans Examiner, Joe Mangan, at 937-438-2767 on Mondays, Wednesdays and Fridays, or at 937-225-5038 on Tuesdays and Thursdays.

[Form 1: The OHBA Alternative Energy Code Option.](#)

[Form 2: 2013 Residential Code of Ohio Sections 1101 through 1104.](#)

[Energy Efficiency Certificate](#)