



# GEAUGA COUNTY BOARD OF COMMISSIONERS

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## Energy Compliance Statement Guide and Worksheet

Energy compliance documents are a required submittal with all New Homes, Residential Additions, and Major Residential Renovations. Documents may be a single sheet statement (a worksheet is provided on page 2 of this document for your convenience) with: Name, Address, Method chosen and your actual proposed design criteria that shows you meet or exceed requirements.

There are several energy compliance methods from which to choose:

1. U A ALTERNATIVE--(REScheck) from IECC 402.1.4 or the RCO 1102.1.3 (downloadable program)
2. PERFORMANCE --(REMrate) from IECC section 405 (downloadable program)
3. ENERGY RATING INDEX (ERI) from the RCO chapter 1106
4. PRESCRIPTIVE --from the IECC chapter 4 or the RCO chapter 11 (see worksheet)
5. OHBA option #1 or option #2 – from the RCO section 1112 (see worksheet)

The following steps will help guide you thru the U A Alternative method.

1. Go to [www.energycodes.gov](http://www.energycodes.gov) and download REScheck program. (This is a free download and very quick.)
2. The opening page will display a toolbar. Click on the option CODE. Click on latest version IECC.
3. There are 3 tabs on this page: Project: Envelope: Mechanical:
  - a) Project fields are Name, Address, Job Description, etc.
  - b) Envelope fields are user friendly. Follow the prompts with the requested information. {Note: gross area equals square footage; cavity refers to the R-Value of the insulation you are installing in the cavity; cont./ continuous refers to the R-Value of insulated sheathing(if any), etc.; the manufacturer supplies U- Values for doors and windows.}
  - c) Mechanical fields are HVAC related.
4. When the fields are completed, click back to the Project tab to allow the information to register. Check the bottom of the page to verify that compliance has passed. If compliance has not passed, adjust R-Values and/or HVAC efficiency to meet compliance.
5. Click on 'File', then choose 'View/Print Report' to review or print a hard copy. Choose 'Save Report' to save a copy of your Report. Choose 'Email Report' to email your report. Be sure that these 3 checkboxes are marked: Compliance Certificate, Inspection Check List, and Panel Certificate.
6. Note that the submitted compliance statement must be a true representation of the actual finished project and is subject to inspection.

**Note:** Some Lumber Suppliers, Insulation Contractors, or Mechanical Contractors will supply this compliance statement for their customers.

## 2019 RESIDENTIAL CODE OHIO ENERGY COMPLIANCE PATH OPTIONS FOR CLIMATE ZONE 5

Compliance shall be demonstrated by meeting the requirements of one of the following (6) options. Submit either:

UA Alternative (RES ) **OR** Performance (REM Rate) **OR** Energy Rating Index (ERI) **OR** use one of the three options below

| Description  | <i>To use as a submittal form, check box of choice and infill right column</i>  |  |  | Proposed Values (must meet or exceed chosen path) fill in |
|--|---|--|--|---|
|  | Prescriptive Per 2018 IECC/RCO 1102 new homes and additions   | RCO 1112 OHBA #1<br>NEW HOMES ONLY                           | RCO 1112 OHBA #2<br>NEW HOMES ONLY                           |   |
| Window U-Factor as listed, or lower  | 0.3   | 0.32   | 0.32   |   |
| Skylight U-Factor as listed or lower (NA if none)  | 0.55  | 0.60   | 0.60   |   |
| Ceiling R Value R-49, or R-38 if Raised Heals at eaves   | R-49 or 38 W/ RH  | R-49 or 38 W/ RH   | R-49 or 38 W/ RH   |   |
| Wood Framed cavity walls R Value, continuous = foam sheathing  | 20 or 13 + 5 continuous   | 15 or 13 + 3 continuous                                      | 13   |   |
| Mass Wall R Value (ie. above grade walls of concrete, block, ICF, logs, etc.) R-13 when on exterior. (NA if none)  | 13 or 17  | 13 or 17   | 13 or 17   |   |
| Framed Floor R value (ie. above garage, below cantilever)  | 30  | 30   | 30   |   |
| Basement Wall R Value, R-10 continuous or R-13 cavity  | 10 or 13 (full hgt of wall)   | 10 or 13 (top 4 ft)  | 10 or 13 (top 4 ft)  |   |
| Slab R Value, vertical or horizontal   | 10 @ 2 ft   | 10 @ 2 ft  | 10 @ 2 ft  |   |
| Crawl Space wall R Value, top 4' Minimum, R-10 continuous or R-13 cavity   | 10 or 13  | 10 or 13   | 10 or 13   |   |
| Blower Door Test is mandatory for all new homes. Max of 5 Air Changes per Hour when tested at a pressure of 50 pascals.  | additions and alterations are exempt  | Yes  | Yes  |   |
| Ducts must be tested for tightness (IECC 403.22), if not within conditioned space  | Yes or NA   | Yes or NA  | Yes or NA  |   |
| Supply ducts in attic shall be sealed and insulated to a minimum of R-8 & leak tested  | R-8 or NA   | R-8 or NA  | R-8 or NA  |   |
| Mechanical ventilation required-I.E., fresh air to furnace ,energy recovery exhaust fan(s) , or some combination of bath, kitchen exhaust with timer control -state at right | Yes   | Yes  | Yes  | state method(s)   |
| Access doors from conditioned spaces to unconditioned space shall be weather-stripped  | Yes   | Yes  | Yes  | Yes   |
| HOT WATER PIPING shall be insulated to at least R- per Section 1103.4  | R-3 ON ALL: ¾ and larger pipe; hot water pipe under slabs; hot and return lines of circulating systems (except demand type) | R-2 first 5 ft of hot water pipe; hot water pipe under slabs | R-2 first 5 ft of hot water pipe; hot water pipe under slabs |   |
| Mechanical system piping (fluids above 105 F or below 55 F) must be insulated to a minimum of R-3 (A/C line sets)  | R-3 or NA   | R-3 or NA  | R-3 or NA  |   |
| Minimum percentage of high efficacy lighting fixtures  | 90%   | 90%  | 90%  | 90%   |
| Programmable thermostat required   | Yes   | Yes  | Yes  | Yes   |
| Furnace Efficiency Rating  | Equipment Sizing shall meet Section 1401 of the RCO (M1401 of the IRC)  |  |  | %   |
| Air Conditioner SEER Ratio   |   |  |  | SEER  |

**Project address:** \_\_\_\_\_

**Owner or representative:** \_\_\_\_\_