
2015 IECC Residential Summary

Plans

- Building thermal envelope will need to be shown on the plans.
- Required insulation values shown on plans and where it will be installed.
- On the cover page indicate what method of testing will be done. (Use of table N1102.4.1.1 OR whole house air leakage test.)
- Provide information for compliance method being used. (Prescriptive, simulated, energy rating index of 69 or better, Utah 2012 Rescheck) per N1105.4.2.1

Building

- Mechanical rooms with fuel burning appliances that do not take their combustion air directly from the exterior of the home (High efficiency) will need to be thermally isolated from the interior of the home per. N1102.4.4.
- Combustion air ducts penetrating the building envelope will need to be isolated from the interior of the home to an R-8 per N1102.4.4.
- Insulation and fenestration values are on table N1102.1.2. (No state amendments)
- A certificate complying with N1101.14 to be installed by final inspection.
- Eave baffles to be installed per N1102.2.3 when air permeable insulation is used in the attic.
- Weather strip around attic and crawl space hatches.
- Installation of slab edge insulation complying with N1102.2.10
- Crawl space walls and spaces to comply with N1102.2.11
- Air barrier and insulation installation to be per table N1102.4.1.1 OR use the whole house air leakage test to satisfy the requirement.

HVAC System

- Duct insulation to comply with N1103.3.1 (R8 in attic, R6 other areas. Both supply and return. R-6 if 3" or less in size.)
- Ducts, air handlers and filter boxes to be sealed per N1103.3.2. Filters cut into returns will not meet the new code requirements.
- Review section N1103 for addition system standards in regards to controls and system design.

Plumbing

- Hot water recirculating lines to be insulated to R-3.
- Hot water heaters installed after July 1, 2018 to meet the low nitrogen oxide emission limits for natural gas found in Title15A-6-102.

Electrical

- 75% of lighting to be high efficacy.

Testing

- Whole house leakage criteria are based on Air Changes per Hour:
 1. 5 ACH until January 1, 2019
 2. 3.5 ACH beginning January 1, 2019
 3. 3 ACH beginning January 1, 2021
- If the home tests less than 3 ACH, whole house ventilation will need to be provided per R303.4
- Duct system to be tested if any of the following apply.
 1. Air handler is outside of the building thermal envelope.
 2. Percentage of ducts required to be inside of the buildings thermal envelope. If duct system is outside these parameters a test will be needed. (regardless of air handler location.)
 - A. 50% through December 31, 2016
 - B. 65% beginning January 1, 2017
 - C. 75% beginning January 1, 2019
 - D. 80% beginning January 1, 2021
- Duct leakage test maximums (cubic feet per minute) are as follows: (Per 100 square feet of conditioned space)
 - A. 10 CFM through December 31, 2016
 - B. 8 CFM beginning January 1, 2017
 - C. 7 CFM beginning January 1, 2019
 - D. 6 CFM beginning January 1, 2021
- Testing to be done by parties certified by BPI, RESNET, or by the manufacture of the testing equipment. (Building department to be notified one-day prior of testing to schedule the inspection.)
- A certificate of the tests conducted is to be given to the building department prior to building final per N1105.4.2.2.

***This is only a summary of the 2015 IECC as adopted by the state, and is not intended to be a complete list of code items required in the IECC or enforced by the jurisdiction.**