



# RELEASE NOTES IC3

---

ENERGY SYSTEMS LABORATORY - SOFTWARE ENGINEERING GROUP

Texas Engineering Experiment Station (TEES) - <http://esl-seg.tamu.edu>

---

## Version 3.5 November 2009

### Features/Tweaks (v3.5.5) Released 11/10/2009

- IECC 2009 support
- Duct Insulation values (minimum R-4)
- Tweaked some help text and user's guide text to better explain limitations
- Added new values to certificate
- Improved ability to enter shading length in inches without formatting
- Historical data migrated to adopt default values.

### Defects Addressed:

- Tweaked thermostat set-points
- Slab and floor insulation code lookup error fixed
- Fixed obscure error in overhang entry

### Open:

- Edge cases in the UI where you input values that physically can't be built.
- Adding more specific messages when the user's input fails either the simulation or building code
- Load times can be improved on slow connections (ongoing project)
- 2<sup>nd</sup> floor over 1<sup>st</sup> floor must have a value (can't be left blank)
- 2<sup>nd</sup> floor over 1<sup>st</sup> floor can't be 100% hanging, system should warn users that 1 sq ft must overlap.
- Window area can be 0, validation messages says must be more than 0
- How to "lock" a project so we can submit the highest possible emission reduction (**policy issue**).

## Version 3.4– September 2009

### Features/Tweaks (v3.4.8) Released 10/5/2009

- Blower Door Input enhanced to allow specification of none, actual or estimated
- Duct Leaking Input enhanced to allow specification of none, actual or estimated

### Features/Tweaks (v3.4.6) Released 9/30/2009

- Blower Door Input (actual or estimated)
- Duct Leakage Input (actual or estimated)
- Choice of IECC 2000/2001 or IECC 2006 w Houston Ammendments (note that those are the ONLY two choices at this time, 2009 support is coming)
- Tweaked labels for each screen, extended certificate, updated artwork and help text

### Features/Tweaks (v3.3) Internal release, all features present in 3.4 (above)

- Three story single family homes
- AC tonnage input
- Input exterior wall insulation R-Value input
- Cavity insulation R-Value input
- Continuous wall insulation R-Value (optional input)
- Allow for Roofing geometries to be described by the input of
  - Flat roof area
  - Cathedral ceiling area
  - Attic area

- The above are combined to determine the minimum attic area
- Knee wall area is an additional input
- BDL version RES 3.03.04
- Existing projects had the AC tonnage field set to 1 ton per 500 sq ft of floor space.
- Enhanced certificate audit trails
- Horizontal projections are now in feet and inches
- Certificate is expanded to include new fields and a checklist
- Electrical Resistance Heating better supported

**Defects Addressed:**

- [ICE-60] - "Notes" field is allowing more than 255 characters
- [ICE-61] - Number of Bedrooms is not being validated to accept only integers
- [ICE-62] - A/C Size has no validation - will accept alpha and alphanumeric entry
- [ICE-63] - DHW Energy Factor fails to simulate if greater than 0.79
- Improved sensitivity to ducts in conditioned space
- Various cosmetic and internal issues.

**Open:**

- 
- Edge cases in the UI where you input values that physically can't be built.
- Adding more specific messages when the user's input fails either the simulation or building code
- Load times can be improved on slow connections (ongoing project)
- 2<sup>nd</sup> floor over 1<sup>st</sup> floor must have a value (can't be left blank)
- Window area can be 0, validation messages says must be more than 0
- How to "lock" a project so we can submit the highest possible emission reduction (**policy issue**).