

Review of EnergyGauge ERI Submission

Wrightsoft, 3/16/18

FSEC responses provided in red.

Comments on results spreadsheets.

1. EG submitted pdfs, not the actual spreadsheets.
- FSEC response: All spreadsheets are included with this reply.
2. Submitted results did not include the complete "2017-Florida_ERI-Test_Results-form.xlsx". Only provided 1st table. Missing the U-Factor results table.
- FSEC response: As indicated in the request for approval letter, EnergyGauge does not perform the U-Factor Alternative Method calculation:

Residential Energy Efficiency Code Compliance

- Prescriptive R-value Method
- Prescriptive U-factor Alternative Method
- Prescriptive Total UA Alternative Method
- Performance Method (unchanged from last submission)
- Energy Rating Index Alternative Method

Comments on submitted example reports

1. EPL card is the old style, not the one in the New TAM and 2017 Code Appendix RD.
- FSEC response: The release version includes the TAM / 2017 Code Appendix RD version of the EPL Card.
2. Building input checklist report is not the one in the TAM.
 - a. Has extra sections for Mass, appliances, lights.
- FSEC response: Including mass, appliances and lights is appropriate for the ERI compliance method.
 - b. Missing sections for "Garage" and "Solar Hot Water System".
- FSEC response: The test homes did not include a garage or solar hot water system, so these sections would not be included.
3. New page 2 not in TAM. Has "Insulation and Fenestration Requirements by Component" tables.
- FSEC response: EnergyGauge provides the appropriate 2009 or 2015 IECC envelope efficiency tables to facilitate compliance verification. This is not required in the TAM but these tables provide additional helpful information for building officials.
4. Different styling for Mandatory requirements pages and Air Barrier and Insulation Inspection component criteria. Harmless but note this is not the same as in the TAM.
- FSEC response: A checkbox column was added to aid those using these documents.

Comments on Software.

Error message when attempting to view reports.

1. Loaded "ERI Test Case 1 (L1000-01).enb"
2. From menu: Calculate -> Florida Code Compliance 2017 -> ERI Method
3. Click "View Multiple ERI Reports"
4. Got message "Reference to wall 5 but only 4 walls exist. See Figure 1, below.
5. Clicked OK on message. Got second message, "List index out of bounds". See Figure 2, below.
6. Got same errors when clicked "Print Multiple Reports".

- FSEC response: This is an intermittent issue which has been resolved in the release version.

Error on attempting to produce EPL card.

1. From menu: Reports -> FL EPL Card 2017
2. Got "Error on duct page - The Leakage Type (Proposed Air Leakage) of Duct #1 is not valid for Florida Code Calculations." See Figure 3, below.

- FSEC response: This message is expected. The Proposed Air Leakage type is available for those calculating annual simulations, but as explained in the software message, is not acceptable for code calculations. Changing the Ducts screen Leakage Type entry from "Proposed Air Leakage" to "Proposed Qn" or "Proposed Leak Free" is consistent with the code and will not generate this message.

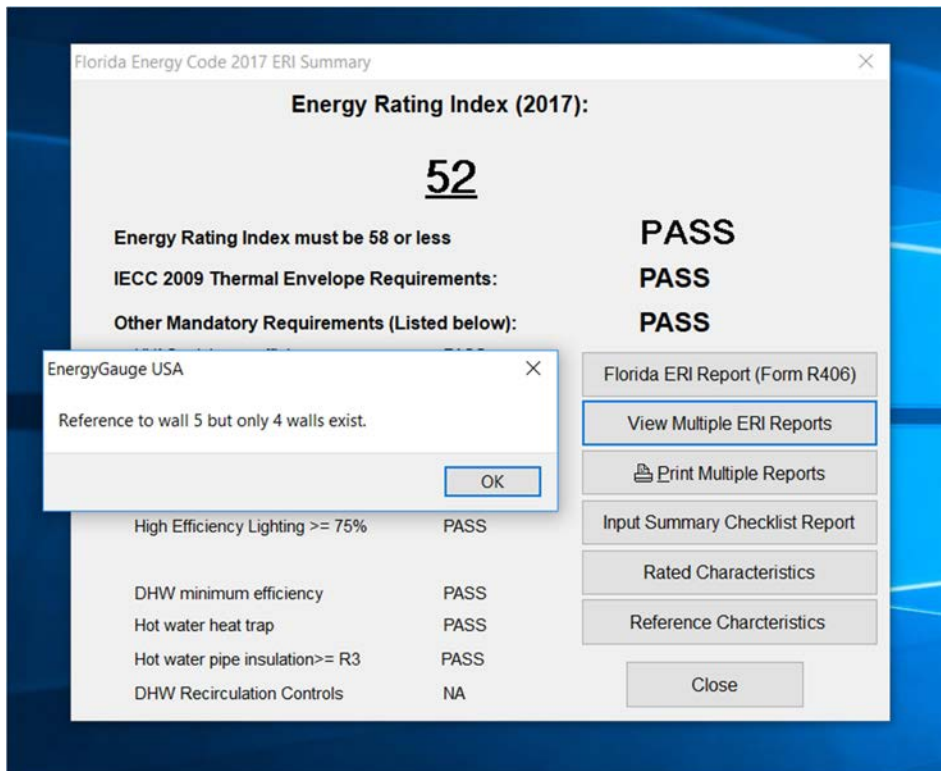


Figure 2

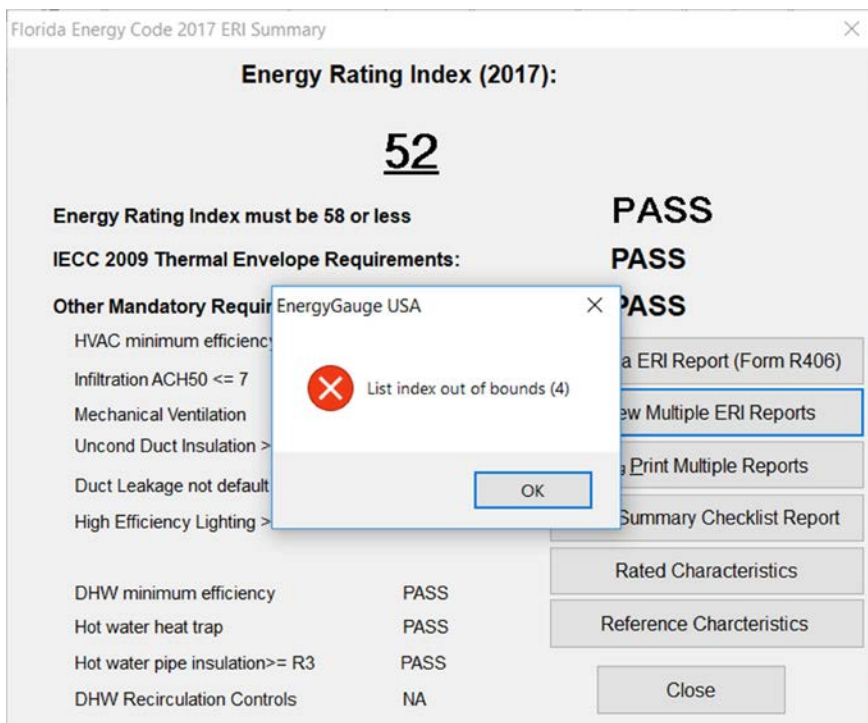


Figure 3

