

Wrightsoft response to Staff Comments July 27 2017

Thanks for your feedback and comments. Wrightsoft has a long-term commitment to Florida, as we have been supplying our HVAC design software to Florida contractors and system designers for 30 years. We appreciate your helpful inputs and will work to meet all 2014 Energy Code and TAM requirements.

**Staff Comments concerning Right-Energy® Florida 2014.
July 25, 2017**

1) Does this program work for Additions or existing homes? Is there a way to specify different areas for compliance. (I.E. separating an existing home from an addition. Or adding an addition to existing mechanical equipment.)

Response: In our submittal letter requesting approval we indicated that this version is seeking approval only for New Construction, Single Family detached houses. We fully intend to submit a later extended version which addresses additions and multi-family residential. Once we have resolved any issues from this submittal and we gain approval, we will continue work to submit the extended version.

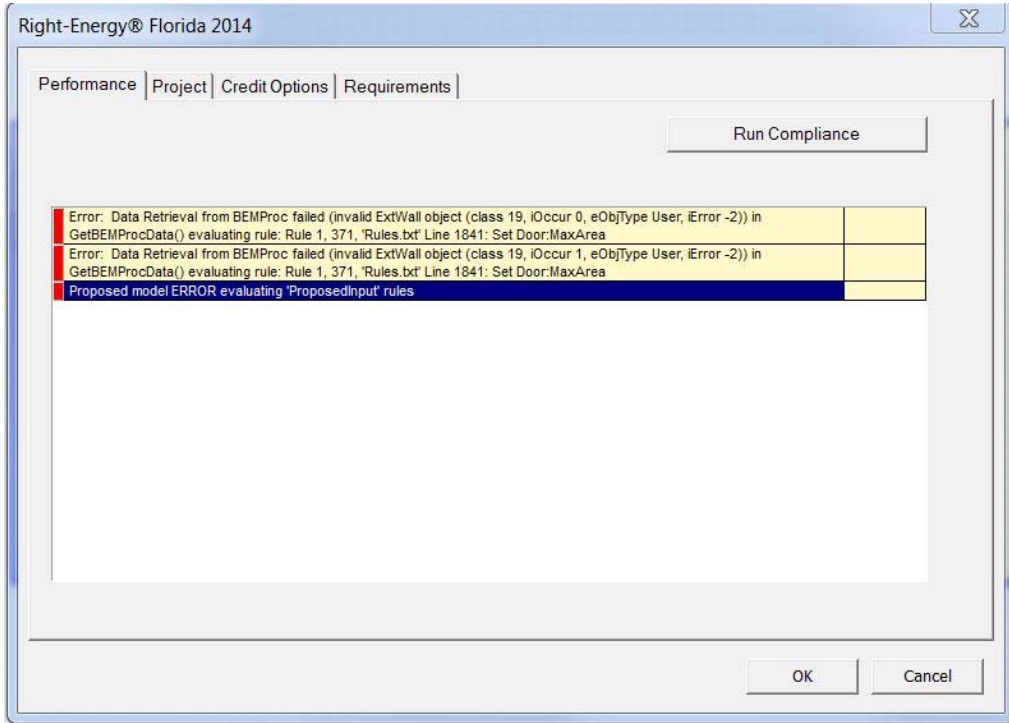
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2) There is a note: "Performance will not be run due to Mandatory Requirement failures. It would be more user friendly to specify exactly what requirements are failing.

Response: We agree. We will add more specific reasons for Mandatory Requirement failure. If you could supply us with the case that generated this message, it would be helpful for testing.

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3) Ran into an error code: ***Data Retrieval from BEMProc failed (invalid ExtWall object (class 19, iOccur 0, eObjType User, iError-2)) in GetBEMProcData () evaluating rule: Rule 1, 371, "Rules.txt' Line 1841: Set Door: MaxArea".***



Other than calling tech support there is no way to know what this issue is or how to correct it. I assume it is due to a component entered improperly but could not backtrace where this occurred.

Response: We agree. This message should never have appeared to a user. We regard it as a bug and we will diagnose and eliminate the cause. It would be helpful to have the file that produced the error message.

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Perhaps a help file detailing common errors would be helpful to users.

Response: Good Idea. We will work on adding that to the help file.

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4) There is no input for duct insulation in the attic. Or to specify higher insulation values. The program automatically generates the duct.

R405.2 Mandatory requirements. Compliance with this section requires that the mandatory provisions identified in Section R401.2 be met. All supply and return ducts not completely inside the building thermal envelope shall be insulated to a minimum of R-6.

Response: We will add User Interface to allow for specifying insulation R Value of supply and return ducts outside conditioned space.

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5) Allows the compliance calculation to run when ceiling insulation is lower than minimum allowed.

R405.2.1 Ceiling insulation. Ceilings shall have an insulation level of at least R-19, space permitting. For the purposes of this code, types of ceiling construction that are considered to have inadequate space to install R-19 include single assembly ceilings of the exposed deck and beam type and concrete deck roofs. Such ceiling assemblies shall be insulated to at least a level of R-10.

[See Response to your 8\)](#)

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6) Page 8 of the Compliance Report. The section number for R403.4.4.2 Water heating equipment is left of the checklist.

[Response: We will add to the report.](#)

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7) Under roof assembly there is no definition for certain Attic Types. IE. "Encapsulated." Definitions for assembly and component types would be appreciated.

[Response: We will add definitions to either Help or on-screen](#)

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8) Per R405.2.1 there should be an option for single assembly ceilings. R405.2.1

R405.2.1 Ceiling insulation. Ceilings shall have an insulation level of at least R-19, space permitting. For the purposes of this code, types of ceiling construction that are considered to have inadequate space to install R-19 include single assembly ceilings of the exposed deck and beam type and concrete deck roofs. Such ceiling assemblies shall be insulated to at least a level of R-10.

[Response: We propose to add a checkbox to the Mandatory Requirements tab so that users can indicate that their ceiling is a "single assembly". We think our normal ceiling specification screen allows for thermal description of such assemblies but doesn't call them "single assemblies". Therefore if a ceiling shows an insulation less than 19 and the box is not checked, the ceiling will fail Minimum Requirements, and if the ceiling insulation R value is greater than or equal to 10 and the box is checked, then it will pass Minimum Requirements.](#)

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9) The compliance report does not indicated the type of floor as shown in the program.

[Response: We will correct the report to show floor type.](#)

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10) For Wall, Floor, and Ceiling inputs on the Compliance Report, could unused portions be hidden or marked as N/A Not applicable. (See below areas)

9. Wall types (1319 ft ²)	Insulation	Area
a. Frm wall, eifs ext, r-15 cav i	R=19.0	1091 ft ²
b. Frm wall, stucco ext, r-15 cav	R=15.0	228 ft ²
c.		0 ft ²
d.		0 ft ²
10. Ceiling types (2100 ft ²)	Insulation	Area
a. Attic ceiling, asphalt shingle	R=0.0	2100 ft ²
b.		0 ft ²
c.		0 ft ²
11. Ducts	R	ft ²
a. Sup:Vented attic Ret:Vented attic AH:Cond. Space	6	273
b.		

Response: We will change the report to show N/A with blanks for Area.

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11) The Floor type information for the home does not show up in the Compliance report. (See below)

SHGC:	SHGC=0.25	13. H
Area Weighted Average Overhang Depth:	1 ft	
Area Weighted Average SHGC:	0.25	
8. Floor types (0 ft ²)	Insulation	Area
a.		0 ft ²
b.	0	ft ²
c.	0	ft ²
		14. H
		15. C

Response: Same as 9)

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12) We tried to replicate the solar water heater entry that was in your submittal – however this does not show up on the Compliance Report. (See below)

Response: We have corrected the report to refer to the correct data fields.

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1	Electric conventional (40 gal, 0.96 EF)	0.96	40 gal	71 gal	120 °F
SOLAR HOT WATER SYSTEM					
FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	
	N/A		N/A		
DUCTS					

13) Compliance Report should indicate the Air distribution system components. Total Duct Leakage test report, AHU Location.

Response: Yes, the Duct section of the Building Input Summary has those fields except for the Total Duct Leakage which we will add.

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14) Include on the Summary page for the Compliance Report the HVAC Sizing.

Response: Our software computes Manual J and Manual S, both Mandatory Requirements. Sizes for heating and cooling equipment are shown on the Summary page of the Compliance Report.

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15) Credits should show up on the summary sheet for the Compliance Report.

Response: We will add the checked Credit Options to Line 15 in the Summary page of the Compliance Report.

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16) The Compliance Report should show what Climate Zone the project is under.

Response: Yes, we will add to the Building Input Summary

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17) Can more information be provided concerning Wall Orientation. (Building Input Summary Report.)

Response: Yes, we will add wall orientations to the Building Input Summary

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18) Can the Compliance Report summary provide more information concerning the window area Orientation? (Building Input Summary Report.)

Response: Yes, we will add window area orientation to the Building Input Summary

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