

Right-Energy®

Energy Rating Software

Right-Energy Capabilities

- ENERGY STAR HVAC Design Report
- ENERGY STAR Compliance (Coming)
- California Title 24
- Florida Code Compliance
- RESNET HERS Index
- IECC Compliance

Wrightsoft Overview

History of Innovation



Bill Wright,
President

- 1986 – Partnered with ACCA
 - Developed Right-J®
- Developed relationships with manufacturers, distributors and installers
 - Grew as mainstream tool
- Renewable Energy and Conservation

Wrightsoft Software Partnerships



Technical Trade Partners



ACCA Exclusive technical software partner for 18 years

ASHRAE Commercial Loads and Duct software

HRAI Canadian Loads and Duct approved software

RPA Radiant in-floor design software

CEC Right-Energy Title 24 Residential New Construction approved software

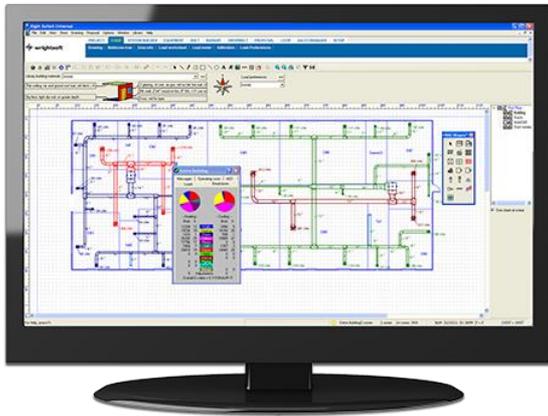
RESNET Right-Energy HERS & IECC approved Software

Florida Right-Energy Florida approved Software

Wrightsoft Product Overview

Software and Mobile Solutions

Right-Suite Universal



Right-Mobile Consultant



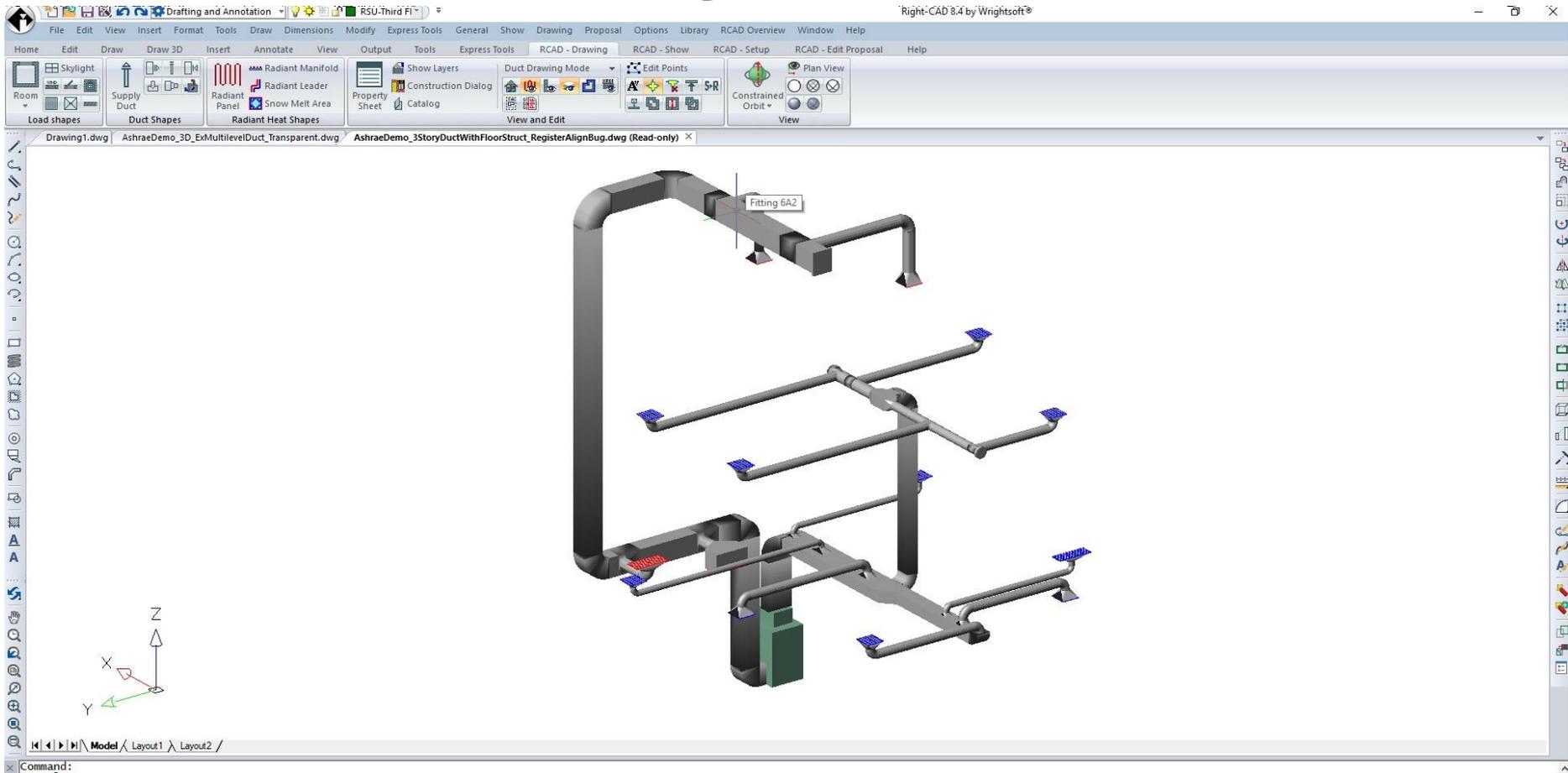
Right-J Mobile



ACCA Manual J • ACCA Manual D • ACCA Manual S • ACCA Manual N • ASHRAE RTS • ASHRAE Duct Fittings
High Velocity Ducts • Radiant In-floor • Geothermal Loop • Solar DHW • Energy Compliance
Equipment Operating Costs • Parts Take-off • Proposals • Presentations • Mobile Solutions • and More

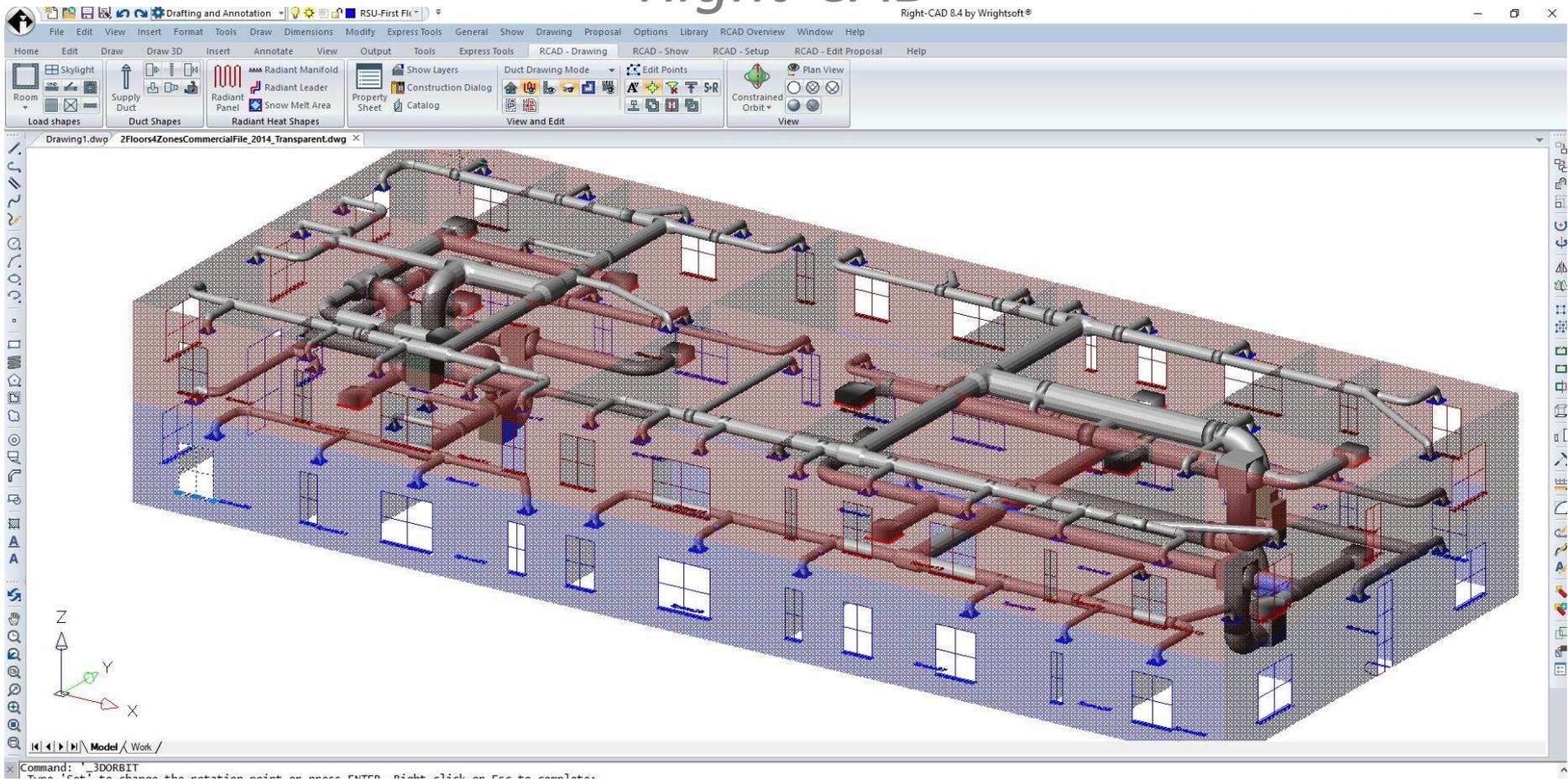
Wrightsoft Product Overview

Right-CAD



Wrightsoft Product Overview

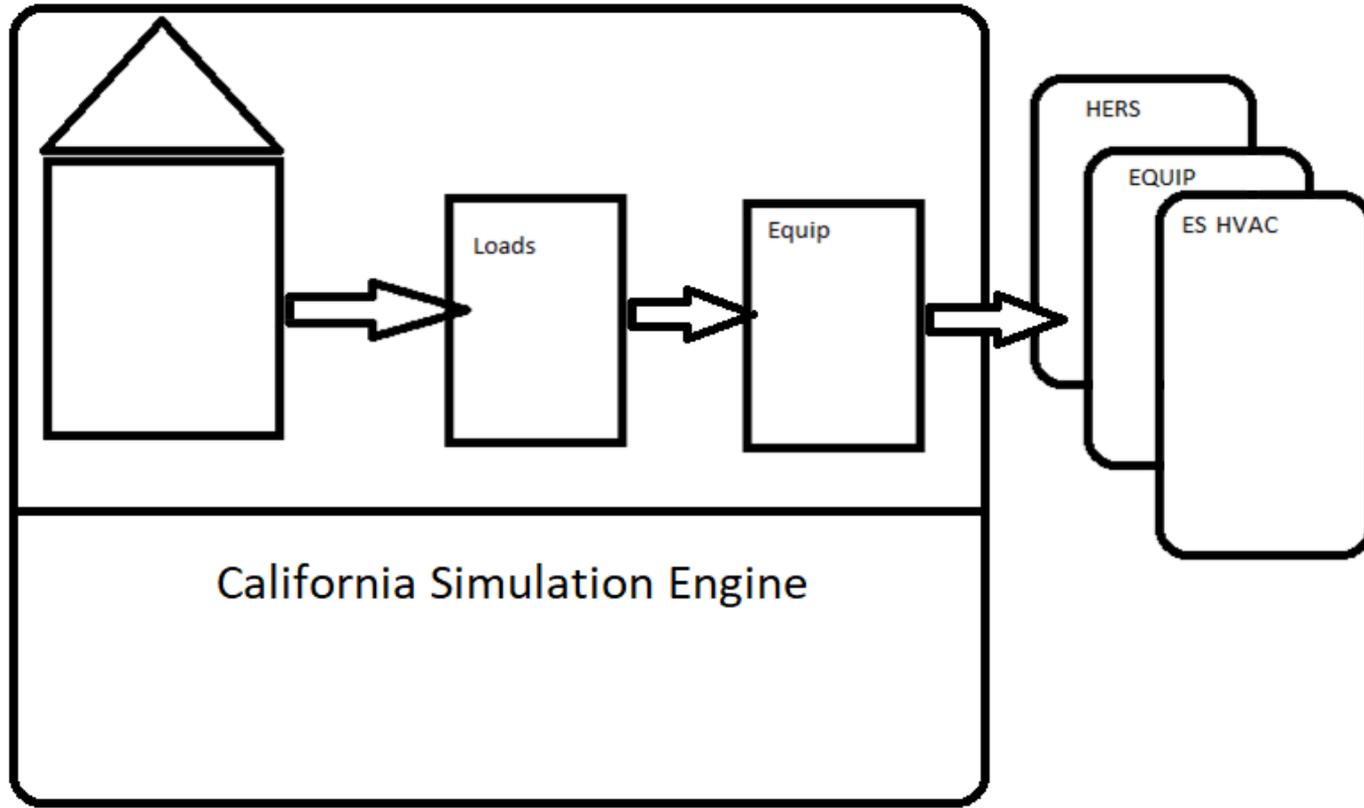
Right-CAD



Every Report is Produced from Same Building Description

Building design process

Reports



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ENERGY STAR Compliance (Coming)

- Target score for v3, v3.1, v3.2
- Configure Reference Design Home
- Single solution
 - HVAC System design
 - Energy & HVAC code compliance
 - ENERGY STAR Certified Home

California Title 24

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

CF1R-PRF-01

Project Name: U04R01

Calculation Date/Time: 15:28, Mon, Oct 09, 2017

Page 1 of 8

Calculation Description:

Input File Name: U04R01.rbd16

GENERAL INFORMATION					
01	Project Name	U04R01			
02	Calculation Description				
03	Project Location	1516 Ninth St			
04	City	Arcata	05	Standards Version	Compliance 2017
06	Zip Code		07	Compliance Manager Version	BEMCmpMgr 2016.2.1 (895)
08	Climate Zone	CZ1	09	Software Version	Wrightsoft Right-Energy® Title 24 v2.2
10	Building Type	Single Family	11	Front Orientation (deg/Cardinal)	0
12	Project Scope	Newly Constructed	13	Number of Dwelling Units	1
14	Total Cond. Floor Area (ft²)	2100	15	Number of Zones	1
16	Slab Area (ft²)	2100	17	Number of Stories	1
18	Addition Cond. Floor Area	n/a	19	Natural Gas Available	Yes
20	Addition Slab Area (ft²)	n/a	21	Glazing Percentage (%)	20.0%

COMPLIANCE RESULTS	
01	Building Complies with Computer Performance
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.
03	This building incorporates one or more Special Features shown below

This compliance analysis is valid only for permit applications through October 24, 2017

ENERGY USE SUMMARY				
04	05	06	07	08
Energy Use (kTDV/ft²-yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating	34.00	32.21	1.79	5.3%
Space Cooling	0.00	0.00	0.00	0.0%
IAQ Ventilation	1.17	1.17	0.00	0.0%
Water Heating	10.27	10.27	0.00	0.0%
Photovoltaic Offset	---	0.00	0.00	---
Compliance Energy Total	45.44	43.65	1.79	3.9%

REQUIRED SPECIAL FEATURES
The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.
• Window overhangs and/or fins

Registration Number:
CA Building Energy Efficiency Standards - 2016 Residential Compliance

Registration Date/Time:
Report Version - CF1R-07312017-895

HERS Provider:
Report Generated at: 2017-10-09 12:27:05



Florida Code Compliance

FORM R405-2014

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Street: 15710 NW 41st Ave City, State, Zip: Reddick, FL 32886 Owner: Thomas Residence Design Location: FL, Ocala Int J Taylor		Builder Name: Permit Office: Permit Number: Jurisdiction: 521000 County: (Florida Climate Zone 2)	
1. New construction or existing	New (From Plans)	9. Wall types (1328 ft ²)	Insulation Area (ft ²)
2. Single family or multiple family	Single-Family	a. Blk wall, stucco ext, r-5 e	6.0 1328.00
3. Number of units, if multiple family	1	b. N/A	R=
4. Number of bedrooms	4	c. N/A	R=
5. Is this a worst case?	No	d. N/A	R=
6. Conditioned floor area above grade (ft ²)	1553.25	10. Ceiling types (1902 ft ²)	Insulation Area (ft ²)
7. Windows (130 ft ²)	Description Area (ft ²)	a. Attic, shingles, r-38 ce	R=38.0 1901.97
a. U-Factor:	Del, U=0.340 130.20	b. N/A	R=
SHGC:	SHGC=0.32	c. N/A	R=
b. U-Factor:		11. Ducts	R Area (ft ²)
SHGC:		a. Sup: System 1/Ret: System 1/AH: System 1	6.0 590.13
c. U-Factor:		b.	
SHGC:		12. Cooling systems	kBtu/hr Efficiency
d. U-Factor:		a. Split air source heat pump	22.3 SEER: 15.5
SHGC:		13. Heating systems	kBtu/hr Efficiency
Area Weighted Average Overhang Depth: 1.300 ft		a. Split air source heat pump	24.0 HSPF: 0.0
Area Weighted Average SHGC: 0.320		14. Hot water systems	Cap: 40 gal
8. Floor types (1553.25 ft ²)	Insulation Area (ft ²)	a. Electric conventional (40 gal)	EF: 0.96
a. S/G	R=0.0 1553.25	b. Conservation features	
b. N/A	R=	(None)	
c. N/A	R=	15. Credits Cool Roof/Ceiling Fan	
Total Proposed Modified Loads: 37.08		PASS	
Glass/Floor area: 0.084		Total Baseline Loads: 44.16	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: _____ DATE: _____		Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed, this building will be inspected for compliance with Section 553.908 Florida Statutes.	
I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: _____ DATE: _____		 BUILDING OFFICIAL: _____ DATE: _____	

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.2.2.1.
 - Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and starting July 1, 2017, this project requires an envelope leakage test report with envelope leakage no greater than 7.0 ACH50 (R402.4.1.2).
 - Compliance requires a roof absorptance test and roof emittance test in accordance with R405.7.2.
 - Compliance with a proposed duct leakage Qn requires a Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with Section 803 of RESNET Standards, is not greater than 0.040 Qn for whole house.

wrightsoft Right-Suite® Universal 2017 17.0.30 R5U40001 Right-Energy® Florida 2014 Section 405.4.1 Compliant Software 2017-Oct-10 15:48:19
 ...:\d\ides\Thomas - 15710 NW 41st Ave RETEST.rpt Calc = MJB Front Door faces: E Page 2

Accommodates California & Florida Credit Options

- Radiant Barrier
- Cool Roof
- Unvented Attic
- Cross Ventilation
- Indoor Air Quality (IAQ)
- Whole House Fan
- Ceiling Fan
- Heat Recovery Unit (HRU)
- Dedicated Heat Pump
- Solar Water Heating

Right-Energy®

Energy Rating Software

Thank You

Ethan Croteau

Senior Software Developer

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