

**2024 - 8th Edition Florida Energy Code - Reference Energy Model**  
 energy code **baseline recommended values shown green** below

Envelope Component / Building System	Energy Points
Raised Floor <b>R-13</b> to R-19 insulation	-2
Raised Floor <b>R-13</b> to R-30 insulation	-3
Raised Floor <b>R-13</b> to R-38 insulation	-3
CMU Wall <b>R-6</b> to R-4 Insulation	+4
CMU Wall <b>R-6</b> to R-5 Insulation	+2
CMU Wall <b>R-6</b> to R-7.5 Insulation	-2
CMU Wall <b>R-6</b> to R-9.8 Insulation	-4
Frame Wall <b>R-13</b> to R-15 Insulation	-1
Frame Wall <b>R-13</b> to R-19 Insulation	-3
Frame Wall <b>R-13</b> to R-30 Insulation	-4
Wall Dark Color <b>.75 absorptance</b> to .3 Light Color	-7
Vented Attic <b>R-38</b> to R-30 Ceiling Insulation	+25
Vented Attic <b>R-38</b> to R-19 Ceiling Insulation	+6
Roof Color <b>Medium</b> to Light	-25
Roof Color <b>Medium</b> to Dark	+25
Roof Color <b>Medium</b> to Tested White	-.5
Roof Color <b>Medium</b> to Galvanized Metal	-25
Roof Color <b>Medium</b> to Galvalume Metal	-25
Attic Vent rate from <b>1/300 ratio</b> to 1/150 ratio	-1
Vented Attic Radiant Barrier	-3
16% Glass to Floor Area, .4 U value / .25 SHGC	+1
18% Glass to Floor Area, .4 U value / .25 SHGC	+3
20% Glass to Floor Area, .4 U value / .25 SHGC	+5
25% Glass to Floor Area, .4 U value / .25 SHGC	+10
Ducts Mounted Inside Building Envelope	-6
<b>Ducts Tested and Verified Leak Free</b> to default leakage	+2
Envelope Leakage <b>7 ach/50</b> to 5 ach/50	-3
Air Handler Mounts in Garage	+1
Air Handler Mounts in Vented Attic	+2
Programmable Thermostat	-25
Ceiling Fan Credit	-2
.93 uef Electric Storage Water Heater <b>50 gallon</b> to 40 gallon	-25
.93 uef Electric Storage Water Heater <b>50 gallon</b> to 55 gallon	-1
.93 uef <b>Electric</b> Water Heater to 3.45 uef Heat Pump	-8
<b>Electric</b> Storage Water Heater to .82 Gas Storage	-8
Gas Storage Water Heater to Gas Tankless Exterior Mount	+4
Heat Pump <b>14.3 SEER2/7.5 HSPF2</b> to 15 SEER2/7.8 HSPF2	-3
Heat Pump <b>14.3 SEER2/7.5 HSPF2</b> to 16 SEER2/7.8 HSPF2	-7
Heat Pump <b>14.3 SEER2/7.5 HSPF2</b> to 19 SEER2/8.7 HSPF2	-17
Heat Pump <b>14.3 SEER2/7.5 HSPF2</b> to 20 SEER2/8.9 HSPF2	-19

Reference Energy Model Shown  
**Scores the maximum 95 Points**

The **lower** the total energy score, the **more efficient** the home. The proposed home is compared to a geometric twin with only 15% glass to floor area.

Reference Energy Model Geometry and Building Envelope Components

2000 square feet conditioned area  
 44.72'x44.72'x9'=18,000' cubic  
 22'x17.4'x9' 64lf attached garage  
 4 occupants, 3 bedroom 2 bath  
 n,e,s,w 43.26'x9' CMU R-6 walls .75 color  
 w 17'x9' R-13 frame partition wall .01 color  
 slab on grade floor 40% tile 60% carpet  
 R-38 Vented Attic 1/300 med. color shingle  
 75 sq ft of glass each orientation .4 U value  
 .25 SHGC, 40 sq ft insulated .40 U value  
 exterior door, semi tight building  
 envelope leakage test 7 ach/50 maximum

Energy Model / Building Systems

3,242 BTUH appliance allowance, 15 cfm per person ventilation air rate, tested leak free  
 R8 ducts, 400/100 S/A attic/R/A interior, air handling unit mounts inside the building  
 14.3 seer2 / 7.5 hspf2 split heat pump equip.  
 50 gallon .93 uef efficiency water heater  
 mounts inside the building with heat trap

View the proposed homes EPL card for the energy performance index score / use the approximate energy point values shown to adjust the proposed energy score for changes made to the home during construction. Glass amounts and types are critical to the homes energy score, install envelope components that meet or exceed the proposed values, lower U values indicate greater efficiency.

The "as-built" home must score 95 points or less to be code compliant.