

7th Edition Florida Energy Code - "Tampa" 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	-1
Raised Floor <b>R-13</b> to R-30 insulation	-1
Raised Floor <b>R-13</b> to R-38 insulation	-2
CMU Wall <b>R-6</b> to R-4 Insulation	+2
CMU Wall <b>R-6</b> to R-5 Insulation	+1
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 Medium Color <b>.75 absorptance</b> to .3 Light Color	-7
Vented Attic <b>R-38</b> to R-30 Ceiling Insulation	+5
Vented Attic <b>R-38</b> to R-19 Ceiling Insulation	+4
Roof Color <b>Medium</b> to Light	-5
Roof Color <b>Medium</b> to Dark	+1
Roof Color <b>Medium</b> to Tested White	-5
Roof Color <b>Medium</b> to Galvanized Metal	-5
Roof Color <b>Medium</b> to Galvalume Metal	-5
Attic Vent rate from <b>1/300 ratio</b> to 1/150 ratio	-2
Vented Attic Radiant Barrier	-3
<b>16% Glass to Floor Area</b> , .4 U value / .25 SHGC	0
<b>18% Glass to Floor Area</b> , .4 U value / .25 SHGC	+2
<b>20% Glass to Floor Area</b> , .4 U value / .25 SHGC	+3
<b>25% Glass to Floor Area</b> , .4 U value / .25 SHGC	+7
<b>30% Glass to Floor Area</b> , .4 U value / .25 SHGC	+11
Ducts Mounted Inside Building Envelope	-8
<b>Ducts Tested and Verified Leak Free</b> to default leakage	+2
Envelope Leakage <b>7 ach/50</b> to 5 ach/50	-3
<b>Air Handler Mounts inside the building envelope</b>	0
Air Handler Mounts in Garage	+5
Air Handler Mounts in Vented Attic	+1
Programmable Thermostat	-5
Ceiling Fan Credit	-2
.93 uef Electric Storage Water Heater <b>50 gallon</b> to 40 gallon	0
.93 uef Electric Storage Water Heater <b>50 gallon</b> to 55 gallon	-1
<b>Electric</b> Storage Water Heater to .82 Gas Storage	-9
Gas Storage Water Heater to Gas Tankless Exterior Mount	-5
Split Heat Pump <b>14 SEER/8.2 HSPF</b> to 15 SEER/8.5 HSPF	-5
Split Heat Pump <b>14 SEER/8.2 HSPF</b> to 16 SEER/9 HSPF	-10
Split Heat Pump <b>14 SEER/8.2 HSPF</b> to 20 SEER/10HSPF	-22

"Tampa" Reference Energy Model Shown  
**Scores the maximum 100 Points**

The **lower the total energy score, the more efficient the home.** The proposed home is compared to a geometric twin with only 16% glass to floor area.

"Tampa" Energy Model Geometry  
and Building Envelope Components

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

"Tampa" Energy Model / Building Systems

3,242 BTUH appliance allowance, 15 cfm per person ventilation air rate, tested leak free duct system mounted in vented attic, air handling unit mounts inside the building  
14 seer / 8.2 hspf 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 glass components that meet or exceed the proposed values, lower values indicate greater efficiency.

The "as-built" home must score 100 points or less to be code compliant.