

**CHAPTER 13, Florida Building Code
METHODOLOGY
Compliance Method B Form Development
October, 2005**

The following were developed to reflect SEER 13 and 7.7 HSPF cooling and heating baseline multipliers for all climate zones. Baseline heating and cooling multipliers include efficiencies of an R-6 duct, an air handler in the garage, and a “leaky” duct as follows:

$$\underline{\text{R-6 duct} \times \text{SEER 13 A/C} \times \text{AHU in garage} \times \text{“leaky” duct} = \text{baseline}}$$

SUMMMBER 1.25 x 0.262 x 1.0 x 1.0 = 0.325

$$\underline{\text{R-6 duct} \times \text{HSPF 7.7} \times \text{AHU in garage} \times \text{“leaky” duct} = \text{baseline}}$$

WINTER 1.25 x 0.443 x 1.0 x 1.0 = 0.554

Redevelopment of revised baseline glazing multipliers for a U-factor of 0.75 (assuming the current SHGC baseline SHGC 0.4 and no overhang) is done by averaging the multipliers for that glazing with the windows (assuming 18% of window to 1500 sq.ft. of floor area) facing equally the 8 cardinal orientations:

	<u>Summer</u>	<u>Winter</u>
North	18.59	20.17
Central	24.35	9.11
South	30.53	3.60

The “baseline” example homes for north, central and south Florida on the EnergyGauge Fla/Res 4.0 computer program were then run with the new multipliers to come up with the TOTAL BASE POINTS (proposed). Using the baseline home example on the EnergyGauge Fla/Res computer program for the climate zone in question, choose the component options desired, calculate the TOTAL AS-BUILT POINTS, and compare them to the TOTAL BASE POINTS (proposed) shown below for that climate zone to determine if the compliance package you would like to propose passes code (meets baseline). The TOTAL AS-BUILT POINTS must be less than the TOTAL BASELINE POINTS (proposed) to PASS (meet) code.

TOTAL BASE POINTS (proposed) for the “baseline” home examples on EnergyGauge Fla/Res:

Climate zones 1,2,3 (North Florida):	21,407
Climate zones 4,5,6 (Central Florida):	19,274
Climate zones 7,8,9 (South Florida):	20,697

In no way is the development of new Compliance Method B packages going to prevent the use of Method A. The proposed new baselines will make Method A more stringent—it will be harder to comply with the code than it is now—but the whole range of tradeoffs and credits will still be available for demonstrating energy code compliance.