



## BUILDER'S INSULATION WORKSHEET

Applicant's Name: \_\_\_\_\_

Phone Number: \_\_\_\_\_ E-Mail: \_\_\_\_\_

Jobsite Location: \_\_\_\_\_

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Method of Calculation	Yes	No
A. System Analysis (REScheck) (If yes, skip items 1 thru 6 and Submit REScheck form)	_____	_____
B. PA Alternative Residential Energy Provisions (See table on back of this form & complete items 1 thru 6)		

### Component Criteria for Thermal Envelope

1. Glazing U-factor for all windows \_\_\_\_\_  
Glazing U-factor for all skylights \_\_\_\_\_  
Glazing U-factor for all doors, etc. \_\_\_\_\_  
(In accordance with NFRC 100, NFRC 200 or U-Factor default  
Tables 102.1.3 (1) & (2) of the International Energy Conservation Code.
2. Ceiling R-Value \_\_\_\_\_
3. Wall R-Value (material installed in wall cavity only) \_\_\_\_\_
4. Basement wall R-value or \_\_\_\_\_  
Basement ceiling R-value \_\_\_\_\_
5. Crawlspace wall R-value or \_\_\_\_\_  
Crawlspace ceiling R-value \_\_\_\_\_
6. For concrete floors slab perimeter R-Value & depth of insulation \_\_\_\_\_

\*Basement and crawlspace must be insulated with either wall or ceiling insulation.

\*Where blown-in or sprayed insulation is applied in the roof/ceiling assembly, the installer shall provide a certification of the initial installed thickness, settled thickness, coverage area, and number of bags of insulating material installed. Markers shall be provided for every 300 square feet of area, attached to the trusses, rafters or joists and indicate in 1-inch high numbers the installed thickness of the insulation.

Table PA401.1  
Insulation and Fenestration Requirements by Component

	Climate Zone
	South
Fenestration U-Factor	0.40
Skylight U-Factor	0.60
Ceiling R-Value	38
Wood Frame Wall R-Value	13
Mass Wall R-Value	5
Floor R-Value	19
Basement Wall R-Value	10/13
Slab R-Value & Depth	10.2 ft
Crawl Space Wall R-Value	10/13

For S1: 1 foot = 304.mm

- a. R-values are minimums. U-factors and SHGC are maximums.  
R-19 shall be permitted to be compressed into a 2 X 8 cavity.
- b. The fenestration U-factor column excludes skylights.
- c. The first R-value applies to continuous insulation, the second to framing cavity insulation: either insulation meets the requirement.
- d. R-5 shall be added to the required slab edge R-values for heated slabs.
- e. Or insulation sufficient to fill the framing cavity, R-19 minimum.
- f. "13 + 5" means R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 25 percent or less of the exterior, insulating sheathing is not required where structural sheathing is used. If structural sheathing covers more than 25 percent of exterior, structural sheathing shall be supplemented with insulated sheathing of a least R-2.