

**ENERGY CONSERVATION APPLICATION FORM FOR ENERGY EFFICIENCY FOR ONE- AND TWO-FAMILY DETACHED RESIDENTIAL CONSTRUCTION (780 CMR 61.00)**

Applicant Name: \_\_\_\_\_ Site Address: \_\_\_\_\_  
print

Town: \_\_\_\_\_

Applicant Phone: \_\_\_\_\_

Applicant Signature: \_\_\_\_\_ Date of Application: \_\_\_\_\_

**NEW CONSTRUCTION: (choose ONE of the following two options)**

**780 CMR TABLE 6107.1  
 PRESCRIPTIVE ENVELOPE COMPONENT CRITERIA FOR  
 NEW ONE- AND TWO-FAMILY BUILDINGS**

<input type="checkbox"/> <u>Option 1:</u>	MAXIMUM	MINIMUM							
	Fenestration U-factor	Ceiling or exposed floors R-Value	Wall R-Value	Floor R-Value	Basement Wall R-Value	Slab Perimeter R-Value and Depth	AFUE	HSPF	SEER
	.35	R-38	R-19	R-19	R-10	R-10, 4 ft.	National Appliance Energy Conservation Act (NAECA) of 1987 as amended, minimums or greater as applicable		

Option 2: Note: This form is not required if you choose either of the two versions of REScheck as listed below.

√ REScheck Version 4.1.2 or later variant software analysis must be completed (780 CMR 6107.3.2)

√ REScheck-Web which can be accessed at <http://www.energycodes.gov/rescheck/>

**ADDITIONS OR ALTERATIONS TO EXISTING BUILDINGS OVER 5 YEARS OLD\***

\*Buildings under 5 years old must use option #1 or #2 in New Construction section above.

Complete the following formula to determine the % of glazing:

(a) Gross Wall & Ceiling Area equals \_\_\_\_\_ SF

(b) Glazing area equals \_\_\_\_\_ SF

Formula:  $(100 \times b \div a)$

$$100 \times \frac{\text{Glazing Area}}{\text{Gross Wall \& Ceiling Area}} = \text{ \% of glazing}$$

If glazing is  $\leq 40\%$  use the chart below. If glazing is  $> 40\%$  proceed to "SUNROOM" section

**780 CMR TABLE 6101.3  
 PRESCRIPTIVE ENVELOPE COMPONENT CRITERIA ADDITIONS TO EXISTING  
 LOW-RISE RESIDENTIAL BUILDINGS**

<input type="checkbox"/>	MAXIMUM	MINIMUM				
	Fenestration U-factor	Ceiling and Exposed floors R-Value	Wall R-Value	Floor R-value	Basement Wall R-Value	Slab Perimeter R-Value and Depth
	.39	R-37 a	R-13	R-19	R-10	R-10, 4 feet

a R-30 ceiling insulation may be used in place of R-37 if the insulation achieves the full R-value over the entire ceiling area (i.e. not compressed over exterior walls, and including any access openings).

**SUNROOM** – An addition or alteration to an existing building/dwelling unit where the total glazing area of said addition exceeds 40% of the combined gross wall and ceiling area of the addition.  
**Note: Owner to fill out Consumer Information Form (found in Appendix 120.P)**