

**ENERGY CONSERVATION APPLICATION FORM FOR  
LOW-RISE RESIDENTIAL NEW CONSTRUCTION and ADDITIONS**  
780 CMR Appendix J

Applicant Name: \_\_\_\_\_ Site Address: \_\_\_\_\_  
 Applicant Address: \_\_\_\_\_ City/Town: \_\_\_\_\_  
 \_\_\_\_\_ Use Group: \_\_\_\_\_  
 \_\_\_\_\_ Date of Application: \_\_\_\_\_  
 Applicant Phone: \_\_\_\_\_ Applicant Signature: \_\_\_\_\_

Compliance Path (check one):

**Prescriptive Package (Limited to 1- or 2-family wood frame buildings heated with fossil fuels only)**

Package (A through KK from Table J5.2.1b): \_\_\_\_\_ Heating Degree Days (HDD<sub>65</sub>) from Table J5.2.1a \_\_\_\_\_  
 (For items d. through i., fill in all values that apply from Table J5.2.1b:)

- |                              |              |                   |          |
|------------------------------|--------------|-------------------|----------|
| a. Gross Wall Area           | _____ sq.ft  | f. Wall R-value   | R- _____ |
| b. Glazing Area <sub>1</sub> | _____ sq.ft. | g. Floor R-value  | R- _____ |
| c. Glazing % (100 x b ÷ a)   | _____ %      | h. Basement wall  | R- _____ |
| d. Glazing U-value           | U- _____     | i. Slab Perimeter | R- _____ |
| e. Ceiling R-value           | R- _____     | j. Heating AFUE   | _____    |

**Component Performance: “Manual Trade-Off” (Limited to wood or metal framed buildings only)**

Climate Zone (from Figure J6.2.2)     Zone 12     Zone 13     Zone 14

Attach *Trade-Off Worksheet* from Appendix J, [and *HVAC Trade-Off Worksheet*, if applicable]

**MAScheck Software**

Attach *Compliance Report* and *Inspection Checklist* printouts

**Home Energy Rating System Evaluation**

Attach Home Energy Rating Certificate (HERS rating score must be 83 or higher)

**Systems Analysis OR Renewable Energy Sources**

Attach Mass Registered Architect or Engineer Analysis

**ALTERNATIVE FOR ADDITIONS ONLY:**

a. Gross Wall + Ceiling Area \_\_\_\_\_ sq.ft.    b. Glazing Area<sub>1</sub> \_\_\_\_\_ sq.ft.    c. Glazing % (100 x b ÷ a) \_\_\_\_\_ %

**ADDITION with Glazing % (c.) up to 40%** may use 780 CMR Table J1.1.2.3.1 below:

MAXIMUM U-Value	MINIMUM R-Values				
Fenestration <sup>2</sup>	Ceiling <sup>3</sup>	Wall	Floor	Basement Wall	Slab Perimeter, Depth
0.39 <sup>2</sup>	R-37	R-13	R-19	R-10	R-10, 4 ft.

- 1    Glazing Area may be either Rough Opening or Unit dimensions.  
 2    Based on NFRC listing. Applies either to every unit, or to area-weighted average of all units.  
 3    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” addition (greater than 40% glazing-to-wall and ceiling gross area)**

Attach “Consumer Information Form” from 780 CMR Appendix B.

Official’s Name: \_\_\_\_\_ Official’s Signature: \_\_\_\_\_  
 Application     Approved     Denied    Date of Approval/Denial: \_\_\_\_\_  
 Reason(s) for Denial:    (provide additional details as needed on back side)