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Envelope Compliance Certificate

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 05/17/17

Section 1: Project Information

Energy Code: **2009 IECC**
Project Title: ECOMAINE Scale House
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Building Location (for weather data): Portland, Maine
Climate Zone: 6a
Vertical Glazing / Wall Area Pct.: **17%**

Building Use: Activity Type(s)	Floor Area
1-Office : Nonresidential	430

Section 2: Envelope Assemblies and Requirements Checklist

Envelope PASSES: Design 3% better than code.

Envelope Assemblies:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - Office]	430	---	30.0	0.032	0.048
Ext. Wall: Concrete Block, 8in., Partially Grouted, Cells Ins.,Medium Density , Furring: Metal, [Bldg. Use 1 - Office]	894	18.0	7.0	0.062	0.080
Window: Metal Frame, Thermal Break, Perf. Type: Energy code default, Double Pane, Clear , SHGC 0.70, [Bldg. Use 1 - Office]	153	---	---	0.650	0.550
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Office]	42	---	---	0.290	0.700
Floor: Steel Joist, [Bldg. Use 1 - Office]	430	30.0	0.0	0.038	0.033
Floor: Unheated Slab-On-Grade, [Bldg. Use 1 - Office]	89	---	---	---	---

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

Air Leakage, Component Certification, and Vapor Retarder Requirements:

q 1. All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions.
q 2. Windows, doors, and skylights certified as meeting leakage requirements.
q 3. Component R-values & U-factors labeled as certified.
q 4. No roof insulation is installed on a suspended ceiling with removable ceiling panels.
q 5. 'Other' components have supporting documentation for proposed U-Factors.
q 6. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.
q 7. Stair, elevator shaft vents, and other outdoor air intake and exhaust openings in the building envelope are equipped with motorized dampers.
q 8. Cargo doors and loading dock doors are weather sealed.
q 9. Recessed lighting fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, are sealed with gasket or caulk.
q 10. Building entrance doors have a vestibule equipped with self-closing devices.
Exceptions:

- q Building entrances with revolving doors.
- q Doors not intended to be used as a building entrance.
- q Doors that open directly from a space less than 3000 sq. ft. in area.

q Doors used primarily to facilitate vehicular movement or materials handling and adjacent personnel doors.

q Doors opening directly from a sleeping/dwelling unit.

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Section 3: Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, spec and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2009 IECC requirements in COM*check-Web* and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title	Signature	Date