COM*check* Software Version 4.0.1

Envelope Compliance Certificate

Section 1: Project Information

Energy Code: **2009 IECC**
Project Title: 185 Fore St
Project Type: New Construction

Construction Site:	Owner/Agent:	Designer/Contractor:
185 Fore St Portland, ME 04101		

Building Location (for weather data):	Portland, Maine
Climate Zone:	6a
Vertical Glazing / Wall Area Pct.:	**26%**
Skylight Glazing / Roof Area Pct.:	**0%**

Building Use: Activity Type(s)	Floor Area
1-Office : Nonresidential	4687
2-Multifamily : Residential	14861

Section 2: Envelope Assemblies and Requirements Checklist

Envelope PASSES: Design 10% 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 1: Insulation Entirely Above Deck, [Bldg. Use 2 - Multifamily]	4687	---	38.0	0.026	0.048
Skylight 1: Metal Frame with Thermal Break:Glass, With Curb, Perf. Specs.: Energy code default Double Pane with Low-E, SHGC 0.70, [Bldg. Use 2 - Multifamily]	8	---	---	1.100	0.600
Roof 2: Insulation Entirely Above Deck, [Bldg. Use 1 - Office]	590	---	38.0	0.026	0.048
Exterior Wall 1: Wood-Framed, 24" o .c., [Bldg. Use 2 - Multifamily]	12085	21.0	10.0	0.036	0.051
Window 1: Metal Frame with Thermal Break, Perf. Specs.: Product ID AND-N-91-00535-00001, SHGC 0.30, [Bldg. Use 2 - Multifamily] (b)	3227	---	---	0.290	0.550
Exterior Wall 2: Wood-Framed, 16" o.c., [Bldg. Use 1 - Office]	3311	21.0	10.0	0.036	0.051
Window 2: Metal Frame Curtain Wall/Storefront, Perf. Type: Energy code default, Double Pane with Low-E, Clear , SHGC 0.70, [Bldg. Use 1 - Office]	754	---	---	0.800	0.450
Door 1: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Type: Energy code default, Double Pane with Low-E, Clear , SHGC 0.70, [Bldg. Use 1 - Office]	72	---	---	0.800	0.800

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

(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

Air Leakage, Component Certification, and Vapor Retarder Requirements:

- ☐ 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.
- ☐ 2. Windows, doors, and skylights certified as meeting leakage requirements.
- ☐ 3. Component R-values & U-factors labeled as certified.
- ☐ 4. No roof insulation is installed on a suspended ceiling with removable ceiling panels.
- ☐ 5. 'Other' components have supporting documentation for proposed U-Factors.
- ☐ 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.

- ❑ 7. Stair, elevator shaft vents, and other outdoor air intake and exhaust openings in the building envelope are equipped with motorized dampers.
- ❑ 8. Cargo doors and loading dock doors are weather sealed.
- ❑ 9. Recessed lighting fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, are sealed with gasket or caulk.
- ❑ 10. Building entrance doors have a vestibule equipped with self-closing devices.
  Exceptions:
  - ❑ Building entrances with revolving doors.
  - ❑ Doors not intended to be used as a building entrance.
  - ❑ Doors that open directly from a space less than 3000 sq. ft. in area.
  - ❑ Doors used primarily to facilitate vehicular movement or materials handling and adjacent personnel doors.
  - ❑ Doors opening directly from a sleeping/dwelling unit.

Section 3: Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2009 IECC requirements in COM*check* Version 4.0.1 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title	Signature	Date