

# COMcheck Software Version 4.0.7.2 Review

## Envelope Compliance Certificate

### Section 1: Project Information

Energy Code: **2009 IECC**  
Project Title: Cport Credit Union  
Project Type: New Construction

Construction Site:  
50 India Street  
Portland, ME 04103

Owner/Agent:  
Cport Credit Union

Designer/Contractor:  
Gawron Turgeon Architects

Building Location (for weather data): Portland, Maine  
Climate Zone: 6a  
Vertical Glazing / Wall Area Pct.: 13%

<u>Building Use: Activity Type(s)</u>	<u>Floor Area</u>
1-Office : Nonresidential	2278

### 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 <sup>(a)</sup>
Roof 1: Insulation Entirely Above Deck, [Bldg. Use 1 - Office]	1570	---	30.0	0.032	0.048
Exterior Wall 1: Steel-Framed, 16" o.c., [Bldg. Use 1 - Office]	14803	24.0	11.5	0.045	0.064
Window 1: Metal Frame Curtain Wall/Storefront, Perf. Specs.: NFRC CPD-ID P-KAW-16086, SHGC 0.35, [Bldg. Use 1 - Office]	1996	---	---	0.366	0.450
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Office]	49	---	---	0.530	0.700
Floor 1: Concrete Floor (over unconditioned space), [Bldg. Use 1 - Office]	1440	---	20.0	0.043	0.064

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


#### 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 COMcheck Version 4.0.7.2 Review and to comply with the mandatory requirements in the Requirements Checklist.

Stan Gawron - Principal Architect		11-28-17
Name - Title	Signature	Date