



COMcheck Software Version 3.9.0 Envelope Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **New Construction**
Project Title : cPort - Portland Forest Ave

Construction Site:
285 Forwesat Ave
Portland , ME 04101

Owner/Agent:
Gene Ardito
Cport Federal Credit Union
50 Riverside Industrial Parkway
PO Box 777
Portland, Me, ME 04104

Designer/Contractor:
Stan Gawron
29 Black Point Rd
Scarborough, Me , ME 04101
883-6397

Section 2: General Information

Building Location (for weather data): **Portland, Maine**
Climate Zone: **6a**
Building Type for Envelope Requirements: **Non-Residential**
Vertical Glazing / Wall Area Pct.: **28%**

Activity Type(s)	Floor Area
Retail Bank (Retail)	3711
Office Space (Office)	912

Section 3: Requirements Checklist

Envelope PASSES: Design 22% better than code.

Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor ^(a)
Flat roof over heated space: Insulation Entirely Above Deck	3865	---	20.0	0.048	0.048
Exterior Wall 1: Steel-Framed, 16" o.c.	5866	0.0	21.0	0.042	0.064
Windows: Metal Frame Curtain Wall/Storefront:Double Pane with Low-E, Tinted, SHGC 0.38	1645	---	---	0.280	0.450
Doors: Insulated Metal, Swinging	131	---	---	0.310	0.700
Radaint Floor Perimeter: Slab-On-Grade:Heated, Horizontal with vertical 4 ft.	3711	---	10.0	---	---

(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. *N/A*
- 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 4: 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 3.9.0 and to comply with the mandatory requirements in the Requirements Checklist.

Stan GAWRON - ARCHITECT Stan Gawron NOV 14 2011
 Name - Title Signature Date