# **COM***check* **Software Version 4.0.5.3**



# **Envelope Compliance Certificate**

## **Project Information**

Energy Code: 90.1 (2007) Standard
Project Title: Ocean Gateway Addition

Location: Portland, Maine

Climate Zone: 6a
Project Type: Addition
Vertical Glazing / Wall Area: 53%

In lieu of meeting IECC 2009, because we are greater than 40% vertical fenestration, we are required to show compliance with ASHRAE 90.1-2007, which is shown in the following COMcheck.

Construction Site: 167 Fore Street Portland, ME 04101 Owner/Agent: 167 Fore Street LLC PO Box 910 Westbrook, ME 04092 Designer/Contractor:
Archetype Architects
48 Union Wharf
Portland, ME 04101
207-772-6022

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Please address the maximum area of vertical fenestration of 40% for the building envelope per Table 502.3 and the air leakage testing requirements of the curtain wall per Sec. 502.4.2

1-Roof (Office): Nonresidential 2442
2-South Wall (Office): Nonresidential 10210
3-East Wall (Office): Nonresidential 305
4-West Wall (Office): Nonresidential 565
5-North Wall (Office): Nonresidential 9125

#### **Envelope Assemblies**

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor <sub>(a)</sub>
Roof 1: Insulation Entirely Above Deck, [Bldg. Use 1 - Roof]	2442		38.0	0.026	0.048
<u>NORTH</u>					
Exterior Wall 4: Steel-Framed, 24" o.c., [Bldg. Use 5 - North Wall]	9125	25.8	15.0	0.036	0.064
Door 1: Insulated Metal, Swinging, [Bldg. Use 5 - North Wall]	21			0.160	0.700
Door 2: Insulated Metal, Swinging, [Bldg. Use 5 - North Wall]	21			0.160	0.700
Door 3: Insulated Metal, Swinging, [Bldg. Use 5 - North Wall]	21			0.160	0.700
Door 4: Insulated Metal, Swinging, [Bldg. Use 5 - North Wall]	21			0.160	0.700
Door 5: Insulated Metal, Swinging, [Bldg. Use 5 - North Wall]	21			0.160	0.700
EAST Exterior Wall 2: Steel-Framed, 16" o.c., [Bldg. Use 3 - East Wall]	305	19.0	10.0	0.052	0.064
SOUTH Exterior Wall 1: Other Exterior Wall, Heat capacity 0.0, [Bldg. Use 2 - South Wall] (b)	10210			0.270	0.051
Window 1: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID SB60, SHGC 0.32, [Bldg. Use 2 - South Wall] (c)	10210			0.240	0.450
WEST					
Exterior Wall 3: Other Exterior Wall, Heat capacity 0.0, [Bldg. Use 4 -	565			0.270	0.051

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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor <sub>(a)</sub>
West Wall] (b)					
Window 2: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product	565			0.240	0.450
ID SB60, SHGC 0.32, [Bldg. Use 4 - West Wall] (c)					

- (a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
- (b) 'Other' components require supporting documentation for proposed U-factors.
- (c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

### Envelope PASSES: Design 0.1% better than code

#### **Envelope 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 systems have been designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.0.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title	Signature	Date

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