



# Envelope Compliance Certificate

## 90.1 (2007) Standard

### Section 1: Project Information

Project Type: **New Construction**

Project Title : Allagash Brewing Company

Construction Site:  
50 Industrial Way  
Portland, ME 04103

Owner/Agent:  
Rob Tod  
Allagash Brewing Company  
50 Industrial Way  
Falmouth, ME 04103  
207-878-5385

Designer/Contractor:  
Michael Hays  
Grant Hays Associates  
P.O. Box 6179  
Falmouth, ME 04105  
207-871-5900  
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### Section 2: General Information

Building Location (for weather data): **Portland, Maine**  
Climate Zone: **6a**  
Building Space Conditioning Type(s): **Nonresidential**  
Vertical Glazing / Wall Area Pct.: **8%**

**Building Type** **Floor Area**  
Manufacturing Facility 39480

### Section 3: Envelope Assemblies

**Envelope PASSES: Design 8% 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 <sup>(a)</sup>
Roof 1: Insulation Entirely Above Deck	33980	---	30.0	0.032	0.048
Roof 2: Other Roof (b)	5500	---	---	0.180	0.027
Skylight 1: Metal Frame with Thermal Break:Plastic, With Curb, Perf. Type: Other testing/cert. Product ID: Wasco, SHGC 0.79 (c)	375	---	---	0.700	0.870
Exterior Wall 1: Other Steel Framed Wall (b)	24780	---	---	0.050	0.064
Exterior Wall 2: Solid Concrete:12" Thickness,Normal Density , Furring: None	3120	---	0.0	0.630	0.080
Window 1: Metal Frame with Thermal Break, Perf. Type: Energy code default, Double Pane with Low-E, Clear , SHGC 0.68	2137	---	---	0.900	0.550
Door 1: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Type: Energy code default, Double Pane with Low-E, Clear , SHGC 0.68	210	---	---	0.900	0.800
Door 2: Insulated Metal, Swinging	21	---	---	0.100	0.700
Door 3: Uninsulated Double-Layer Metal, Non-Swinging	632	---	---	0.100	0.500
Floor 1: Slab-On-Grade:Unheated, Horizontal with vertical 4 ft.	33980	---	10.0	---	---
Floor 2: Slab-On-Grade:Unheated	5500	---	---	---	---

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

## 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 90.1 (2007) Standard requirements in COMcheck Version 3.9.4 and to comply with the mandatory requirements in the Requirements Checklist.

<u>MICHAEL F. HAYS - ARCHITECT</u>	<u>Michael F. Hays</u>	<u>8.18.14</u>
Name - Title	Signature	Date