## **2009 IECC**

## **Section 1: Project Information**

**Project Type: New Construction** Project Title: Bayside Bowl

Construction Site: Designer/Contractor: Owner/Agent:

58 Ander Street BoPo **RSA** 

Portland, ME 04101

## **Section 2: General Information**

Building Location (for weather data): Portland, Maine

Climate Zone:

Building Type for Envelope Requirements: Non-Residential

Vertical Glazing / Wall Area Pct.:

Activity Type(s) Floor Area 13461 Gymnasium

# **Section 3: Requirements Checklist**

#### Envelope PASSES: Design 4% 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)
Roof 1: Insulation Entirely Above Deck	13461		22.0	0.044	0.048
Exterior Wall 1: Metal Building Wall	3225	19.0	0.0	0.070	0.069
Window 1: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.35	120			0.310	0.550
Exterior Wall 2: Metal Building Wall	3225	19.0	0.0	0.070	0.069
Window 2: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.35	160			0.310	0.550
Exterior Wall 3: Metal Building Wall	4229	19.0	0.0	0.070	0.069
Exterior Wall 4: Metal Building Wall	6895	19.0	0.0	0.070	0.069
Window 3: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.35	80			0.310	0.550
Door 1: Glass (> 50% glazing):Metal Frame, Entrance Door, SHGC 0.35	60			0.310	0.800
Floor 1: Slab-On-Grade:Unheated, Horizontal with vertical >= 4 ft.	528		10.0		

<sup>(</sup>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.
- 1. No roof insulation is installed on a suspended ceiling with removable ceiling panels.
- ☐ 5. 'Other' components have supporting documentation for proposed U-Factors.

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Nar	me	e - Title Signature Date
and	ot	liance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications her calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2009 IECC ements in COMcheck Version 3.9.1 and to comply with the mandatory requirements in the Requirements Checklist.
Se	C	tion 4: Compliance Statement
		Doors opening directly from a sleeping/dwelling unit.
		Doors used primarily to facilitate vehicular movement or materials handling and adjacent personnel doors.
		☐ Doors that open directly from a space less than 3000 sq. ft. in area.
		Doors not intended to be used as a building entrance.
		☐ Building entrances with revolving doors.
<u> </u>	0.	Building entrance doors have a vestibule equipped with self-closing devices.  Exceptions:
<b></b> 9		$Recessed \ lighting \ fixtures \ installed \ in \ the \ building \ envelope \ are \ Type \ IC \ rated \ as \ meeting \ ASTM \ E283, \ are \ sealed \ with \ gasket \ or \ caulk.$
<b>a</b> 8	3.	Cargo doors and loading dock doors are weather sealed.
<b></b> 7	<b>7</b> .	Stair, elevator shaft vents, and other outdoor air intake and exhaust openings in the building envelope are equipped with motorized dampers.
<b>□</b> 6	<b>3</b> .	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.

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