## **2009 IECC**

# **Section 1: Project Information**

Project Type: New Construction Project Title: Retail Containers

Construction Site: Owner/Agent: Designer/Contractor:

93 Washington Avenue 75 Washington **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.: 40%

Activity Type(s) Floor Area Retail 1920

# **Section 3: Requirements Checklist**

### Envelope PASSES: Design 5% 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 <sub>(a)</sub>
Roof 1: Attic Roof with Wood Joists	1920	30.1	0.0	0.034	0.027
Floor 1: Steel Joist	1920	0.0	20.1	0.044	0.033
Exterior Wall 1: Metal Building Wall	365	0.0	16.8	0.057	0.069
Door 1: Glass (> 50% glazing):Metal Frame, Entrance Door, SHGC 0.30, PF 1.00	220			0.550	0.800
Exterior Wall 2: Metal Building Wall	80	0.0	16.8	0.057	0.069
Exterior Wall 3: Metal Building Wall	326	0.0	16.8	0.057	0.069
Window 1: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.35, PF 1.00	50			0.290	0.550
Door 4: Glass (> 50% glazing):Metal Frame, Entrance Door, SHGC 0.30, PF 1.00	64			0.550	0.800
Exterior Wall 4: Metal Building Wall	349	0.0	16.8	0.057	0.069
Window 2: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.35, PF 1.00	50			0.290	0.550
Door 2: Insulated Metal, Swinging	21			0.290	0.700
Door 3: Glass (> 50% glazing):Metal Frame, Entrance Door, SHGC 0.30, PF 1.00	64			0.550	0.800

<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:

- n 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.

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Nar	me - Title	Signature	Date
and	npliance Statement: The proposed envelope design report of the calculations submitted with this permit application submers in COMcheck Version 3.9.1 and to comply with the complexity of the	n. The proposed envelope syste	m has been designed to meet the 2009 IECC
	ction 4: Compliance Statement		
	☐ Doors opening directly from a sleeping/dwelling u	ınit.	
	Doors used primarily to facilitate vehicular mover	· ·	idjacent personnel doors.
	Doors that open directly from a space less than 3	•	
	Doors not intended to be used as a building entra		
	☐ Building entrances with revolving doors.		
<u> </u>	10. Building entrance doors have a vestibule equipped vector of the equipped of the equippe	vith self-closing devices.	
<b>9</b>			eting ASTM E283, are sealed with gasket or caulk.
<b>a</b> 8	<ol><li>Cargo doors and loading dock doors are weather set</li></ol>		
<b></b> 7	<ol><li>Stair, elevator shaft vents, and other outdoor air intal dampers.</li></ol>	ke and exhaust openings in the	building envelope are equipped with motorized
<b>□</b> 6	<ol><li>Insulation installed according to manufacturer's instru achieves the rated R-value without compressing the</li></ol>	· ·	ith the surface being insulated, and in a manner that
<b></b> 5	5. 'Other' components have supporting documentation	for proposed U-Factors.	
<b>4</b>	<ol> <li>No roof insulation is installed on a suspended ceiling</li> </ol>	with removable ceiling panels.	

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