

## **Section 1: Project Information**

Energy Code: 2009 IECC

Project Title: Salvation Army ARC Dining Hall Addition

Project Type: Addition

Construction Site: Owner/Agent: Designer/Contractor:

88 Preble Street Major Ronald Bernardi Evan Carroll
Portland, ME 04101 Salvation Army Bild Architecture
Permit No. 201602844 30 Warren Ave PO Box 8235
Permit Date: 11/7/2016 Portland, ME 04103 30 Danforth, Suite 213

207-8787-8555 Portland, ME 04104
Ronald.Bernardi@use.salvationarmy.org 207-408-0168

evan@bildarchitecture.com

Building Location (for weather data): Portland, Maine

Climate Zone: 6a
Vertical Glazing / Wall Area Pct.: 24%

Building Use: Activity Type(s) Floor Area

1-Dining Hall Addition (Dining: Cafeteria/Fast Food): 4233

Nonresidential

# Section 2: Envelope Assemblies and Requirements Checklist

#### Envelope PASSES: Design 19% better than code.

#### **Envelope Assemblies:**

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, [Bldg. Use 1 - Dining Hall Addition]	4233		23.6	0.041	0.048
Exterior Wall 1: Steel-Framed, 16" o.c., [Bldg. Use 1 - Dining Hall Addition]	4014	21.0	9.6	0.052	0.064
Window 1: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID Kawneer, SHGC 0.40, [Bldg. Use 1 - Dining Hall Addition] (b)	972			0.450	0.450
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Dining Hall Addition]	63			0.450	0.700
Floor 1: Slab-On-Grade:Unheated, Horizontal with vertical >= 4 ft., [Bldg. Use 1 - Dining Hall Addition]	4233		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.
  - 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.

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Report date: 01/18/17

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<sup>(</sup>b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

8. Cargo doors and loading dock doors are weather sealed.    8. Recessed lighting fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, are sealed with gasket or caulk.
<b>47.</b>
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 3: 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 4.0.5.1 and to comply with the mandatory requirements in the Requirements Checklist.

Evan Carroll, Principal
Name-Title

Signature Date

Project Notes:

Envelope completed by Bild Lighting completed by Swift Current Mechanical completed by Ripcord

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