2009 IECC

Section 1: Project Information

Project Type: New Construction Project Title: Danforth on High

Construction Site: Owner/Agent: 81 Danforth Street Danforth on High, LP Portland, ME 04101 309 Cumberland Ave. Portland, ME 04101

Designer/Contractor: Archetype Architects PA 48 Union Wharf Portland, ME 04101

Section 2: General Information

Building Location (for weather data): Portland, Maine

Climate Zone: 6a

Building Type for Envelope Requirements: Residential Vertical Glazing / Wall Area Pct.:

Activity Type(s) Floor Area Entire Building (Multifamily) 20908

Section 3: Requirements Checklist

Envelope PASSES: Design 16% 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	5317		60.0	0.016	0.048
Exterior Wall 1: Wood-Framed, 16" o.c.	14321	21.5	12.5	0.033	0.051
Window 1: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.35	3352			0.320	0.550
Door 1: Insulated Metal, Non-Swinging	48			0.200	0.500
Floor 1: Concrete Floor (over unconditioned space)	5317		35.0	0.026	0.057

⁽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. ng 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.
- ☐ 8. Cargo doors and loading dock doors are weather sealed.
- 9. Recessed lighting fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, are sealed with gasket or caulk.

☐ 10.Building entrance doors have a vestibule equipped with self-closing devices.

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Data filename: C:\Users\Kurt\Desktop\Danforth on High COMcheck.cck

Name - Title	Signature	Date
Compliance Statement: The proposed envelope design represent and other calculations submitted with this permit application. The requirements in COMcheck Version 3.9.1 and to comply with the	proposed envelope system has been design	ed to meet the 2009 IECC
Section 4: Compliance Statement		
☐ Doors opening directly from a sleeping/dwelling unit.		
Doors used primarily to facilitate vehicular movement o	r materials handling and adjacent personnel	doors.
□ Doors that open directly from a space less than 3000 seconds.	q. ft. in area.	
Doors not intended to be used as a building entrance.		
Building entrances with revolving doors.		
Exceptions:		

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