

2009 IECC

Section 1: Project Information

Project Type: New Construction

Project Title: 89 Anderson Street Apartments

Construction Site: 89 Anderson Street Owner/Agent: Redfern Propoerties Designer/Contractor:

Ryan Senatore Architecture, LLC

Portland, ME 04101

Section 2: General Information

Building Location (for weather data):

Portland, Maine

Climate Zone:

6a

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

Activity Type(s)

Multifamily

Floor Area 44352

Section 3: Requirements Checklist

Envelope PASSES: Design 14% 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: Attic Roof with Wood Joists	13333	45.3	6.7	0.020	0.027
Exterior Wall 1: Wood-Framed, 16" o.c.	6658	20.9	13.0	0.032	0.051
Exterior Wall 2: Wood-Framed, 16" o.c.	5174	20.9	13.0	0.032	0.051
Exterior Wall 3: Wood-Framed, 16" o.c.	6186	20.9	13.0	0.032	0.051
Exterior Wall 4: Wood-Framed, 16" o.c.	5873	20.9	13.0	0.032	0.051
Window 1: Vinyl Frame:Double Pane with Low-E, Clear, SHGC 0.27	2939		***	0.270	0.350
Window 2: Metal Frame with Thermal Break:Double Pane with Low-E, Clear, SHGC 0.27	527	***	***	0.400	0.550
Door 1: Glass (> 50% glazing):Metal Frame, Entrance Door, SHGC 0.27	98			0.400	0.800
Door 2: Insulated Metal, Swinging	84		***	0.250	0.500
Floor 1: Steel Joist	8980	0.0	38.0	0.024	0.033
Floor 2: Slab-On-Grade:Unheated, Horizontal with vertical >= 4 ft.	4353		10.0		

⁽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.

A. 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.

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7. NA 39. D 9.	Stair, elevator shaft vents, and other outdoor air intake and exhaust openings in the building envelope are equipped with motorized dampers. Cargo doors and loading dock doors are weather sealed. Recessed lighting fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, are sealed with gasket or caulk D. Building entrance dcors 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.
Sec	ction 4: Compliance Statement
and o	pliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2009 IECC rements in COMcheck Version 3.9.1 and to comply with the mandatory requirements in the Requirements Checklist. Signature Signature Date

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