



Envelope Compliance Certificate

Section 1: Project Information

Energy Code: **2009 IECC**
 Project Title: 16 Middle Street
 Project Type: New Construction

Construction Site:	Owner/Agent:	Designer/Contractor:
16 Middle Street	16 Middle Street Associates LLC	Archetype Architects
Portland, ME 04101	16 Middle Street	48 Union Wharf
Permit No. 2016-01601	Portland, ME 04101	Portland, ME 04101
		207-772-6022

Building Location (for weather data): Portland, Maine
 Climate Zone: 6a
 Vertical Glazing / Wall Area Pct.: 31%

<u>Building Use: Activity Type(s)</u>	<u>Floor Area</u>
1-Roof (Office) : Nonresidential	10712
2-Slab On Grade (Office) : Nonresidential	6506
3-Floor Above Drive (Office) : Nonresidential	3663
4-North Wall (Office) : Nonresidential	9323
5-South Wall (Office) : Nonresidential	9124
6-West Wall (Office) : Nonresidential	4559
7-East Wall (Office) : Nonresidential	4039
8-Wall Under Drive (Office) : Nonresidential	761

Section 2: Envelope Assemblies and Requirements Checklist

Envelope PASSES: Design 1% 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)
Orientation: NORTH					
Exterior Wall 1: Steel-Framed, 16" o.c., [Bldg. Use 4 - North Wall]	9324	13.0	12.0	0.050	0.064
Window 1: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID NA, SHGC 0.28, [Bldg. Use 4 - North Wall] (b)	1155	---	---	0.340	0.450
Window 2: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID NA, SHGC 0.29, [Bldg. Use 4 - North Wall] (b)	2871	---	---	0.370	0.450
Orientation: EAST					
Exterior Wall 4: Steel-Framed, 16" o.c., [Bldg. Use 7 - East Wall]	4039	13.0	12.0	0.050	0.064
Window 5: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID NA, SHGC 0.28, [Bldg. Use 7 - East Wall] (b)	396	---	---	0.340	0.450
Window 6: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID NA, SHGC 0.29, [Bldg. Use 7 - East Wall] (b)	1689	---	---	0.370	0.450
Orientation: SOUTH					
Exterior Wall 2: Steel-Framed, 16" o.c., [Bldg. Use 5 - South Wall]	9124	13.0	12.0	0.050	0.064
Window 3: Metal Frame Curtain Wall/Storefront, Perf. Type: Energy code default, Double Pane with Low-E, Clear, SHGC 0.70, [Bldg. Use 5 - South Wall]	1322	---	---	0.800	0.450
Door 1: Insulated Metal, Swinging, [Bldg. Use 5 - South Wall]	117	---	---	0.690	0.700
Orientation: WEST					
Exterior Wall 3: Steel-Framed, 16" o.c., [Bldg. Use 6 - West Wall]	4559	13.0	12.0	0.050	0.064
Window 4: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID NA, SHGC 0.28, [Bldg. Use 6 - West Wall] (b)	1056	---	---	0.340	0.450

