



# Compliance Certificate

Project High-performance Little House

Energy Code: **2009 IECC**  
 Location: **Portland, Maine**  
 Construction Type: **Single-family**  
 Project Type: **New Construction**  
 Orientation: **Bldg. faces 225 deg. from North**  
 Conditioned Floor Area: **697 ft2**  
 Glazing Area: **10%**  
 Climate Zone: **6 (7378 HDD)**  
 Permit Date:  
 Permit Number:

Construction Site:  
 76 Melbourne St  
 Portland, ME 04101

Owner/Agent:  
 Will Kessler  
 HPLH  
 76 Melbourne St  
 Portland, ME 04101  
 207-221-0772  
 tankfullofsun@gmail.com

Designer/Contractor:

**Compliance: Passes using performance alternative**

Compliance: **3.1% Better Than Code**

## Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Roof: Flat Ceiling or Scissor Truss	410	54.6	0.0	0.025	10
4" Frost-protected slab: Slab-On-Grade:Heated Insulation depth: 4.0'	76		11.0	0.677	51
SW wall: Wood Frame, 16" o.c. Orientation: Front	432	31.4	0.0	0.048	17
Gnd floor picture: Vinyl/Fiberglass Frame:Triple Pane with Low-E SHGC: 0.46 Orientation: Front	30			0.167	5
Ascending stair: Vinyl/Fiberglass Frame:Triple Pane with Low-E SHGC: 0.46 Orientation: Front	5			0.167	1
2nd floor lounge SW (1): Vinyl/Fiberglass Frame:Triple Pane with Low-E SHGC: 0.46 Orientation: Front	11			0.167	2
2nd floor lounge SW (2): Vinyl/Fiberglass Frame:Triple Pane with Low-E SHGC: 0.46 Orientation: Front	11			0.167	2
2nd floor lounge SW (3): Vinyl/Fiberglass Frame:Triple Pane with Low-E SHGC: 0.46 Orientation: Front	11			0.167	2
Front door: Solid Orientation: Front	20			0.160	3

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
NE wall: Wood Frame, 16" o.c. Orientation: Back	432	31.4	0.0	0.048	20
2nd floor bath: Vinyl/Fiberglass Frame:Triple Pane with Low-E SHGC: 0.46 Orientation: Back	6			0.167	1
dining area: Vinyl/Fiberglass Frame:Triple Pane with Low-E SHGC: 0.46 Orientation: Back	9			0.167	2
SE wall: Wood Frame, 16" o.c. Orientation: Right side	342	31.4	0.0	0.048	13
2nd floor lounge SE: Vinyl/Fiberglass Frame:Triple Pane with Low-E SHGC: 0.46 Orientation: Right side	11			0.167	2
2nd floor BR SE: Vinyl/Fiberglass Frame:Triple Pane with Low-E SHGC: 0.46 Orientation: Right side	11			0.167	2
Sliding door: Glass SHGC: 0.29 Orientation: Right side	40			1.020	41
NW wall: Wood Frame, 16" o.c. Orientation: Left side	342	31.4	0.0	0.048	16
2nd floor lounge NW: Vinyl/Fiberglass Frame:Triple Pane with Low-E SHGC: 0.46 Orientation: Left side	11			0.167	2
Gnd floor bath: Vinyl/Fiberglass Frame:Triple Pane with Low-E SHGC: 0.46 Orientation: Left side	6			0.167	1

## Mechanical Equipment

Description	Fuel type	Efficiency
Other (Except Gas-Fired Steam)		100 AFUE

*Compliance Statement:* The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2009 IECC requirements in REScheck Version 4.6.4 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

\_\_\_\_\_  
Name - Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date