



Generated by REScheck-Web Software
Compliance Certificate

Project Title: Smith_Hoopes

Energy Code: **2009 IECC**
Location: **Portland, Maine**
Construction Type: **Single Family**
Project Type: **New construction**
Building Orientation: **Bldg. faces 315 deg. from North**
Glazing Area Percentage: **15%**
Heating Degree Days: **7378**
Climate Zone: **6**

Construction Site:

Owner/Agent:

Designer/Contractor:

Compliance: Passes using UA trade-off

Compliance: **6.2% Better Than Code** Maximum UA: **677** Your UA: **635**

The % Better or Worse Than Code index reflects how close to compliance the house is based on code trade-off rules.
It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Entry Wall: Wood Frame, 24in. o.c. Orientation: Front	220	20.9	1.1		8
Door: Glass SHGC: 0.27 Orientation: Front	20			0.300	6
Window: Other SHGC: 0.36 Orientation: Front	38			0.330	13
Entry Sloped Ceiling: Cathedral	122	42.8	1.1		2
Skylight: Other SHGC: 0.22	25			0.420	11
Entry Flat Ceiling: Flat or Scissor Truss	207	42.8	1.1		6
Guest Hall Wall: Wood Frame, 24in. o.c. Orientation: Front	17	20.9	1.1		1
Guest Bed Wall: Wood Frame, 24in. o.c. Orientation: Right Side	124	20.9	1.1		6
Window: Other SHGC: 0.29 Orientation: Right Side	8			0.310	2
Guest Bed Wall: Wood Frame, 24in. o.c. Orientation: Front	118	20.9	1.1		5
Window: Other SHGC: 0.29 Orientation: Front	23			0.340	8
Guest Bed Wall: Wood Frame, 24in. o.c. Orientation: Left Side	124	20.9	1.1		6
Ceiling: Cathedral	40	35.1	1.1		1
Ceiling: Flat or Scissor Truss	145	35.1	1.1		4
Guest Bath Wall: Wood Frame, 24in. o.c. Orientation: Left Side	63	20.9	1.1		3
Living Wall: Wood Frame, 24in. o.c. Orientation: Left Side	122	20.9	1.1		6
Window: Other SHGC: 0.29 Orientation: Left Side	8			0.310	2
Living Wall: Wood Frame, 24in. o.c.	44	20.9	1.1		2

Orientation: Left Side				
Window: Other	14		0.310	4
SHGC: 0.29				
Orientation: Left Side				
Living Wall: Wood Frame, 24in. o.c.	130	20.9	1.1	3
Orientation: Back				
Window: Other	64		0.310	20
SHGC: 0.29				
Orientation: Back				
Living Wall: Wood Frame, 24in. o.c.	17	20.9	1.1	1
Orientation: Right Side				
Dining Wall: Wood Frame, 24in. o.c.	54	20.9	1.1	3
Orientation: Back				
Ceiling: Flat or Scissor Truss	21	35.1	1.1	1
Dining Wall: Wood Frame, 24in. o.c.	101	20.9	1.1	2
Orientation: Back				
Window: Other	54		0.310	17
SHGC: 0.29				
Orientation: Back				
Kitchen Wall: Wood Frame, 24in. o.c.	137	20.9	1.1	4
Orientation: Back				
Window: Other	14		0.310	4
SHGC: 0.29				
Orientation: Back				
Door: Glass	54		0.310	17
SHGC: 0.34				
Orientation: Back				
Sunroom Wall: Steel Frame, 24in. o.c.	162	20.9	1.1	7
Orientation: Right Side				
Window: Other	86		0.310	27
SHGC: 0.29				
Orientation: Right Side				
Sunroom Ceiling: Flat or Scissor Truss	100	35.1	1.1	3
Entry closet Wall: Wood Frame, 24in. o.c.	54	20.9	1.1	3
Orientation: Right Side				
entry Wall: Wood Frame, 24in. o.c.	106	20.9	1.1	4
Orientation: Front				
Door: Glass	20		0.300	6
SHGC: 0.27				
Orientation: Front				
Window: Other	2		0.310	1
SHGC: 0.29				
Orientation: Front				
Ceiling: Flat or Scissor Truss	48	35.1	1.1	1
Wall: Wood Frame, 24in. o.c.	137	20.9	1.1	6
Orientation: Front				
Window: Other	17		0.310	5
SHGC: 0.29				
Orientation: Front				
Master Bed Wall: Wood Frame, 24in. o.c.	60	20.9	1.1	3
Orientation: Back				
Master bed Wall: Wood Frame, 24in. o.c.	170	20.9	1.1	8
Orientation: Left Side				
Window: Other	10		0.310	3
SHGC: 0.29				
Orientation: Left Side				
Ceiling: Cathedral	113	42.8	1.1	2
Skylight: Other	25		0.420	11
SHGC: 0.22				
Ceiling: Flat or Scissor Truss	117	42.8	1.1	3
Master bath wall: Wood Frame, 24in. o.c.	133	20.9	1.1	7
Orientation: Left Side				
Wall: Wood Frame, 24in. o.c.	172	20.9	1.1	9
Orientation: Front				

Ceiling: Cathedral	73	42.8	1.1		2
Skylight: Other SHGC: 0.22	7			0.420	3
Ceiling: Flat or Scissor Truss	42	42.8	1.1		1
master closet Wall: Wood Frame, 24in. o.c. Orientation: Front	20	20.9	1.1		1
Ceiling: Cathedral	39	42.8	1.1		1
Bed #4 Wall: Wood Frame, 24in. o.c. Orientation: Front	60	20.9	1.1		3
Wall: Wood Frame, 24in. o.c. Orientation: Right Side	71	20.9	1.1		3
Window: Other SHGC: 0.29 Orientation: Right Side	8			0.310	2
Ceiling: Cathedral	113	42.8	1.1		3
Skylight: Other SHGC: 0.22	8			0.420	3
Ceiling: Flat or Scissor Truss	68	42.8	1.1		2
Bed #3 Wall: Wood Frame, 24in. o.c. Orientation: Back	60	20.9	1.1		3
Wall: Wood Frame, 24in. o.c. Orientation: Right Side	71	20.9	1.1		3
Window: Other SHGC: 0.29 Orientation: Right Side	8			0.310	2
Ceiling: Cathedral	113	42.8	1.1		3
Skylight: Other SHGC: 0.22	8			0.420	3
Ceiling: Flat or Scissor Truss	68	42.8	1.1		2
clo/bath/laundryWall: Wood Frame, 24in. o.c. Orientation: Back	66	20.9	1.1		3
Ceiling: Cathedral	125	42.8	1.1		3
Skylight: Other SHGC: 0.22	8			0.420	3
Ceiling: Flat or Scissor Truss	79	42.8	1.1		2
garage framed wall: Wood Frame, 24in. o.c. Orientation: Back	181	20.9	1.1		8
Window: Other SHGC: 0.29 Orientation: Back	8			0.310	2
Door: Glass SHGC: 0.27 Orientation: Back	17			0.300	5
Wall: Wood Frame, 24in. o.c. Orientation: Left Side	173	20.9	1.1		2
Door: Solid Orientation: Left Side	144			0.080	12
Wall: Wood Frame, 24in. o.c. Orientation: Front	44	20.9	1.1		2
Wall: Solid Concrete or Masonry w/ Exterior Insul Orientation: Front	25	13.3	20.0		1
Wall: Solid Concrete or Masonry w/ Exterior Insul Orientation: Front	328	0.0	20.0		14
Wall: Wood Frame, 24in. o.c. Orientation: Back	120	34.2	1.1		3
Door: Glass SHGC: 0.00 Orientation: Back	54			0.310	17
1st Floor over garage: All-Wood Joist/Truss Over Uncond. Space	669	42.8	1.1		15
dining & livingroom Floor: All-Wood Joist/Truss Over Outside Air	86	60.0	1.1		1
basement/garage Floor: Unheated Slab-On-Grade Insulation depth: 0.3'	202		18.8		200

Basement: Solid Concrete or Masonry Orientation: Front Wall height: 8.0' Depth below grade: 6.0' Insulation depth: 8.0'	277	13.3	1.8	15
Window: Other SHGC: 0.29 Orientation: Front	8		0.310	2
Basement: Solid Concrete or Masonry Orientation: Back Wall height: 8.0' Depth below grade: 6.0' Insulation depth: 8.0'	139	13.3	1.8	8

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-Web and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Name - Title	Signature	Date

Project Notes:

63 Stroudwater Rd. Portland, ME



2009 IECC Energy Efficiency Certificate

Insulation Rating	R-Value
Ceiling / Roof	43.90
Wall	20.00
Floor / Foundation	43.90
Ductwork (unconditioned spaces):	_____

Glass & Door Rating	U-Factor	SHGC
Window	0.31	0.29
Skylight	0.42	0.22
Door	0.08	0.34

Heating & Cooling Equipment	Efficiency
Heating System: _____	_____
Cooling System: _____	_____
Water Heater: _____	_____

Name: _____ Date: _____

Comments: