



Compliance Certificate

Project Sample House

Energy Code: **2009 IECC**
 Location: **Littleton, Colorado**
 Construction Type: **Single-family**
 Project Type: **New Construction**
 Conditioned Floor Area: **6,765 ft2**
 Glazing Area: **31%**
 Climate Zone: **5 (6243 HDD)**
 Permit Date:
 Permit Number:

Construction Site:

Owner/Agent:

Designer/Contractor:

Compliance: Passes using UA trade-off

Compliance: **4.3% Better Than Code** Maximum UA: **1104** Your UA: **1057**

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.

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Floor 1: Slab-On-Grade:Unheated Insulation depth: 0.0' Comment: Guest Suite, 22A-ph	37		0.0	1.042	39
Floor 2: Slab-On-Grade:Unheated Insulation depth: 0.0' Comment: GS Wic, 22A-ph	24		0.0	1.042	25
Floor 3: Slab-On-Grade:Unheated Insulation depth: 0.0' Comment: Bed 4, 22A-ph	9		0.0	1.042	9
Floor 4: Slab-On-Grade:Unheated Insulation depth: 0.0' Comment: Exercise, 22A-ph	25		0.0	1.042	26
Floor 5: Slab-On-Grade:Unheated Insulation depth: 0.0' Comment: Rec Room/Game Area, 22A-ph	22		0.0	1.042	23
Floor 6: All-Wood Joist/Truss:Over Outside Air Comment: Master Spa, 20P-30	17	30.0	0.0	0.033	1
Ceiling 1: Flat Ceiling or Scissor Truss Comment: Guest Suite, Roof 16B-50	4	50.0	0.0	0.026	0
Ceiling 2: Flat Ceiling or Scissor Truss Comment: GS Wic, Roof 16B-50	13	50.0	0.0	0.026	0
Ceiling 3: Flat Ceiling or Scissor Truss Comment: Bed 2, Roof 16B-50	250	50.0	0.0	0.026	6
Ceiling 4: Flat Ceiling or Scissor Truss Comment: B2 Wic, Roof 16B-50	32	50.0	0.0	0.026	1
Ceiling 5: Flat Ceiling or Scissor Truss Comment: B2 Bath, Roof 16B-50	65	50.0	0.0	0.026	2

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Ceiling 6: Flat Ceiling or Scissor Truss Comment: Cat. Kitch/Pantry, Roof 16B-50	106	50.0	0.0	0.026	3
Ceiling 7: Flat Ceiling or Scissor Truss Comment: Family Dining, Roof 16B-50	142	50.0	0.0	0.026	4
Ceiling 8: Flat Ceiling or Scissor Truss Comment: Kitchen, Roof 16B-50	370	50.0	0.0	0.026	10
Ceiling 9: Flat Ceiling or Scissor Truss Comment: OE, Roof 16B-50	219	50.0	0.0	0.026	6
Ceiling 10: Flat Ceiling or Scissor Truss Comment: Foyer, Roof 16B-50	354	50.0	0.0	0.026	9
Ceiling 11: Flat Ceiling or Scissor Truss Comment: Pwdr, Roof 16B-50	52	50.0	0.0	0.026	1
Ceiling 12: Flat Ceiling or Scissor Truss Comment: Great Room, Roof 16B-50	551	50.0	0.0	0.026	14
Ceiling 13: Flat Ceiling or Scissor Truss Comment: Study, Roof 16B-50	194	50.0	0.0	0.026	5
Ceiling 14: Flat Ceiling or Scissor Truss Comment: Laundry, Roof 16B-50	297	50.0	0.0	0.026	8
Ceiling 15: Flat Ceiling or Scissor Truss Comment: Master Retreat, Roof 16B-50	347	50.0	0.0	0.026	9
Ceiling 16: Flat Ceiling or Scissor Truss Comment: Master Spa, Roof 16B-50	273	50.0	0.0	0.026	7
Ceiling 17: Flat Ceiling or Scissor Truss Comment: Master Wic, Roof 16B-50	138	50.0	0.0	0.026	4
Wall 1: Wood Frame, 16" o.c. Comment: Guest Suite, R24	139	24.0	0.0	0.054	4
Window 1: Other Comment: Guest Suite, Ster 1	64			0.330	21
Wall 2: Wood Frame, 16" o.c. Comment: Guest Suite, R24	204	24.0	0.0	0.054	8
Window 2: Other Comment: Guest Suite, Ster 3	36			0.330	12
Window 3: Other Comment: Guest Suite, Ster 3	15			0.330	5
Wall 3: Wood Frame, 16" o.c. Comment: Guest Suite, R24	40	24.0	0.0	0.054	1
Window 4: Other Comment: Guest Suite, Ster 3	15			0.330	5
Wall 4: Wood Frame, 16" o.c. Comment: Guest Suite, R24	20	24.0	0.0	0.054	1
Wall 5: Wood Frame, 16" o.c. Comment: GS Wic, R24	73	24.0	0.0	0.054	4
Wall 6: Wood Frame, 16" o.c. Comment: GS Wic, R24	163	24.0	0.0	0.054	7
Window 5: Other Comment: GS Wic, Ster 3	30			0.330	10
Wall 7: Wood Frame, 16" o.c. Comment: GS Wic, R24	27	24.0	0.0	0.054	1
Wall 8: Wood Frame, 16" o.c. Comment: Bed 4, R24	98	24.0	0.0	0.054	4
Window 6: Other Comment: Bed 4, Ster 3	28			0.330	9
Basement Wall 1: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: B4 Bath, Bsmt Frmd R13-10	49	13.0	0.0	0.052	3

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Basement Wall 2: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: B4 Bath, Bsmt Frmd R13-10	155	13.0	0.0	0.052	8
Basement Wall 3: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: B4 Bath, Bsmt Frmd R13-10	69	13.0	0.0	0.052	4
Basement Wall 4: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: B4 Wic, Bsmt Frmd R13-10	25	13.0	0.0	0.052	1
Basement Wall 5: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: B4 Wic, Bsmt Frmd R13-10	7	13.0	0.0	0.052	0
Basement Wall 6: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: B4 Wic, Bsmt Frmd R13-10	91	13.0	0.0	0.052	5
Wall 9: Wood Frame, 16" o.c. Comment: Exercise, R24	175	24.0	0.0	0.054	5
Window 7: Other Comment: Exercise, Ster 1	80			0.330	26
Wall 10: Wood Frame, 16" o.c. Comment: Exercise, R24	70	24.0	0.0	0.054	3
Window 8: Other Comment: Exercise, Ster 3	15			0.330	5
Wall 11: Wood Frame, 16" o.c. Comment: Exercise, R24	9	24.0	0.0	0.054	0
Wall 12: Wood Frame, 16" o.c. Comment: Exercise, R24	26	24.0	0.0	0.054	1
Basement Wall 7: Other Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Rec Room/Game Area, Bsmt Frmd R13-10	258			0.040	8
Wall 13: Wood Frame, 16" o.c. Comment: Rec Room/Game Area, R24	240	24.0	0.0	0.054	6
Window 9: Other Comment: Rec Room/Game Area, Ster 1	128			0.330	42
Basement Wall 8: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Rec Room/Game Area, Bsmt Frmd R13-10	24	13.0	0.0	0.052	1
Basement Wall 9: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Rec Room/Game Area, Bsmt Frmd R13-10	51	13.0	0.0	0.052	3
Basement Wall 10: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Rec Room/Game Area, Bsmt Frmd R13-10	118	13.0	0.0	0.052	6

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Basement Wall 11: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Rec Room/Game Area, Bsmt Frmd R13-10	54	13.0	0.0	0.052	3
Basement Wall 12: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Rec Room/Game Area, Bsmt Frmd R13-10	97	13.0	0.0	0.052	5
Basement Wall 13: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Pdr, Bsmt Frmd R13-10	70	13.0	0.0	0.052	4
Basement Wall 14: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Pdr, Bsmt Frmd R13-10	97	13.0	0.0	0.052	5
Basement Wall 15: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Pdr, Bsmt Frmd R13-10	65	13.0	0.0	0.052	3
Basement Wall 16: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Mech 1, Bsmt Drape R11-10	151	0.0	11.0	0.051	8
Basement Wall 17: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Mech 1, Bsmt Drape R11-10	141	0.0	11.0	0.051	7
Basement Wall 18: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Mech 1, Bsmt Drape R11-10	76	0.0	11.0	0.051	4
Basement Wall 19: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Mech 1, Bsmt Drape R11-10	94	0.0	11.0	0.051	5
Basement Wall 20: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Mech 1, Bsmt Drape R11-10	183	0.0	11.0	0.051	9
Basement Wall 21: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Mech 1, Bsmt Drape R11-10	93	0.0	11.0	0.051	5
Basement Wall 22: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Mech 1, Bsmt Drape R11-10	158	0.0	11.0	0.051	8

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Basement Wall 23: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Mech 1, Bsmt Drape R11-10	59	0.0	11.0	0.051	3
Basement Wall 24: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Mech 1, Bsmt Drape R11-10	47	0.0	11.0	0.051	2
Basement Wall 25: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Mech 1, Bsmt Drape R11-10	170	0.0	11.0	0.051	9
Basement Wall 26: Solid Concrete or Masonry Wall height: 11.0' Depth below grade: 10.0' Insulation depth: 11.0' Comment: Mech 2, Bsmt Frmd R13-10	36	0.0	11.0	0.051	2
Wall 14: Wood Frame, 16" o.c. Comment: Bed 2, R24	137	24.0	0.0	0.054	7
Window 10: Other Comment: Bed 2, Ster 3	15			0.330	5
Wall 15: Wood Frame, 16" o.c. Comment: Bed 2, R24	44	24.0	0.0	0.054	2
Wall 16: Wood Frame, 16" o.c. Comment: Bed 2, R24	43	24.0	0.0	0.054	2
Wall 17: Wood Frame, 16" o.c. Comment: Bed 2, R24	155	24.0	0.0	0.054	4
Window 11: Other Comment: Bed 2, Ster 1	80			0.330	26
Wall 18: Wood Frame, 16" o.c. Comment: B2 Wic, R24	52	24.0	0.0	0.054	3
Wall 19: Wood Frame, 16" o.c. Comment: B2 Wic, R24	49	24.0	0.0	0.054	3
Wall 20: Wood Frame, 16" o.c. Comment: Cat. Kitch/Pantry, R24	62	24.0	0.0	0.054	3
Window 12: Other Comment: Cat. Kitch/Pantry, Ster 3	10			0.330	3
Window 13: Other Comment: Cat. Kitch/Pantry, Ster 13	4			0.320	1
Wall 21: Wood Frame, 16" o.c. Comment: Cat. Kitch/Pantry, R24	116	24.0	0.0	0.054	6
Wall 22: Wood Frame, 16" o.c. Comment: Family Dining, R24	183	24.0	0.0	0.054	4
Window 14: Other Comment: Family Dining, Ster 5	108			0.320	35
Wall 23: Wood Frame, 16" o.c. Comment: Family Dining, R24	94	24.0	0.0	0.054	2
Window 15: Other Comment: Family Dining, Ster 3	36			0.330	12
Window 16: Other Comment: Family Dining, Ster 13	18			0.320	6
Wall 24: Wood Frame, 16" o.c. Comment: Family Dining, R24	94	24.0	0.0	0.054	2
Window 17: Other Comment: Family Dining, Ster 44	54			0.310	17
Wall 25: Wood Frame, 16" o.c. Comment: OE, R24	39	24.0	0.0	0.054	2

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Wall 26: Wood Frame, 16" o.c. Comment: OE, R24	89	24.0	0.0	0.054	5
Wall 27: Wood Frame, 16" o.c. Comment: OE, R24	59	24.0	0.0	0.054	2
Door 1: Solid Comment: OE, 11N	24			0.350	8
Wall 28: Wood Frame, 16" o.c. Comment: OE, R24	40	24.0	0.0	0.054	2
Wall 29: Wood Frame, 16" o.c. Comment: Foyer, R24	138	24.0	0.0	0.054	3
Window 18: Other Comment: Foyer, Ster 3	72			0.330	24
Window 19: Other Comment: Foyer, Ster 5	12			0.320	4
Wall 30: Wood Frame, 16" o.c. Comment: Foyer, R24	64	24.0	0.0	0.054	3
Wall 31: Wood Frame, 16" o.c. Comment: Foyer, R24	114	24.0	0.0	0.054	5
Window 20: Other Comment: Foyer, Ster 43	18			0.340	6
Wall 32: Wood Frame, 16" o.c. Comment: Foyer, R24	33	24.0	0.0	0.054	2
Wall 33: Wood Frame, 16" o.c. Comment: Great Room, R24	400	24.0	0.0	0.054	12
Window 21: Other Comment: Great Room, Ster 3	180			0.330	59
Wall 34: Wood Frame, 16" o.c. Comment: Great Room, R24	374	24.0	0.0	0.054	10
Window 22: Other Comment: Great Room, Ster 7	180			0.330	59
Wall 35: Wood Frame, 16" o.c. Comment: Great Room, R24	85	24.0	0.0	0.054	2
Window 23: Other Comment: Great Room, Ster 5	54			0.320	17
Wall 36: Wood Frame, 16" o.c. Comment: Study, R24	25	24.0	0.0	0.054	1
Wall 37: Wood Frame, 16" o.c. Comment: Study, R24	51	24.0	0.0	0.054	3
Wall 38: Wood Frame, 16" o.c. Comment: Study, R24	162	24.0	0.0	0.054	6
Window 24: Other Comment: Study, Ster 4	54			0.340	18
Wall 39: Wood Frame, 16" o.c. Comment: Study, R24	168	24.0	0.0	0.054	8
Window 25: Other Comment: Study, Ster 3	18			0.330	6
Wall 40: Wood Frame, 16" o.c. Comment: Laundry, R24	81	24.0	0.0	0.054	4
Window 26: Other Comment: Laundry, Ster 3	14			0.330	5
Wall 41: Wood Frame, 16" o.c. Comment: Laundry, R24	34	24.0	0.0	0.054	1
Window 27: Other Comment: Laundry, Ster 3	14			0.330	5
Window 28: Other Comment: Laundry, Ster 5	6			0.320	2
Wall 42: Wood Frame, 16" o.c. Comment: Laundry, R24	20	24.0	0.0	0.054	1

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Wall 43: Wood Frame, 16" o.c. Comment: Laundry, R24	43	24.0	0.0	0.054	2
Wall 44: Wood Frame, 16" o.c. Comment: Master Retreat, R24	157	24.0	0.0	0.054	2
Window 29: Other Comment: Master Retreat, Ster 5	112			0.320	36
Wall 45: Wood Frame, 16" o.c. Comment: Master Retreat, R24	62	24.0	0.0	0.054	2
Window 30: Other Comment: Master Retreat, Ster 3	14			0.330	5
Window 31: Other Comment: Master Retreat, Ster 13	6			0.320	2
Wall 46: Wood Frame, 16" o.c. Comment: Master Retreat, R24	7	24.0	0.0	0.054	0
Wall 47: Wood Frame, 16" o.c. Comment: Master Retreat, R24	22	24.0	0.0	0.054	1
Wall 48: Wood Frame, 16" o.c. Comment: Master Spa, R24	125	24.0	0.0	0.054	6
Window 32: Other Comment: Master Spa, Ster 3	7			0.330	2
Window 33: Other Comment: Master Spa, Ster 3	7			0.330	2
Wall 49: Wood Frame, 16" o.c. Comment: Master Spa, R24	23	24.0	0.0	0.054	1
Wall 50: Wood Frame, 16" o.c. Comment: Master Spa, R24	19	24.0	0.0	0.054	0
Window 34: Other Comment: Master Spa, Ster 43	10			0.340	4
Wall 51: Wood Frame, 16" o.c. Comment: Master Spa, R24	82	24.0	0.0	0.054	2
Window 35: Other Comment: Master Spa, Ster 43	52			0.340	18
Wall 52: Wood Frame, 16" o.c. Comment: Master Spa, R24	19	24.0	0.0	0.054	0
Window 36: Other Comment: Master Spa, Ster 43	10			0.340	4
Wall 53: Wood Frame, 16" o.c. Comment: Master Spa, R24	78	24.0	0.0	0.054	4
Window 37: Other Comment: Master Spa, Ster 37	5			0.300	2
Wall 54: Wood Frame, 16" o.c. Comment: Master Spa, R24	57	24.0	0.0	0.054	3
Window 38: Other Comment: Master Spa, Ster 37	5			0.300	2
Wall 55: Wood Frame, 16" o.c. Comment: Master Wic, R24	85	24.0	0.0	0.054	5
Wall 56: Wood Frame, 16" o.c. Comment: Master Wic, R24	128	24.0	0.0	0.054	6
Window 39: Other Comment: Master Wic, Ster 3	12			0.330	4
Wall 57: Wood Frame, 16" o.c. Comment: Master Wic, R24	24	24.0	0.0	0.054	1

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

Name - Title

Signature

Date



2009 IECC Energy Efficiency Certificate

Insulation Rating	R-Value
Above-Grade Wall	24.00
Below-Grade Wall	0.00
Floor	0.00
Ceiling / Roof	50.00
Ductwork (unconditioned spaces):	_____

Glass & Door Rating	U-Factor	SHGC
Window	0.33	0.25
Door	0.35	

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

Name: _____ Date: _____

Comments