

Project Information

Energy Code: 2018 IECC

Project Title: WoodSpring Suites - Lee's Summit, MO

Location: Lees Summit, Missouri

Climate Zone: 4a

Project Type: New Construction

Vertical Glazing / Wall Area: 11%

Construction Site: Owner/Agent: Designer/Contractor:

1010 NW Ward Road Genesis Companies

Lee's Summit, Missouri 64086 4420 Madison Ave, Suite 100 Kansas City, Missouri 64111

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed Reduced Lighting Power, 1.0 credit

Building Area Floor Area

1-Hotel : Nonresidential 50470

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _(a)
Floor: Unheated Slab-On-Grade, Horizontal with vertical 2 ft., [Bldg. Use 1 - Hotel] (c)	690		5.0	0.700	0.540
Roof: Attic Roof, Wood Joists, [Bldg. Use 1 - Hotel]	12204	60.0	15.0	0.014	0.027
Roof - Entry: Attic Roof, Wood Joists, [Bldg. Use 1 - Hotel]	262	30.0	15.0	0.022	0.027
NORTH RIGHT - EIFS: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Hotel] Window: Vinyl Frame: Operable, Perf. Specs.: Product ID na, SHGC 0.27, [Bldg. Use 1 - Hotel] (b) RIGHT - STONE: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Hotel] Window: Vinyl Frame: Operable, Perf. Specs.: Product ID na, SHGC 0.27, [Bldg. Use 1 - Hotel] (b) Window: Metal Frame: Fixed, Perf. Specs.: Product ID na, SHGC 0.27, [Bldg. Use 1 - Hotel] (b) Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID na, SHGC 0.27, [Bldg. Use 1 - Hotel] (b)	4335 486 1391 126 76 45	19.0 19.0 	7.5 0.0 	0.043 0.450 0.067 0.450 0.650 0.600	0.064 0.450 0.064 0.450 0.380 0.770
FRONT - EIFS: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Hotel] Window: Vinyl Frame: Operable, Perf. Specs.: Product ID na,	3825 216	19.0 	7.5 	0.043 0.450	0.064 0.450
SHGC 0.27, [Bldg. Use 1 - Hotel] (b) FRONT - STONE: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Hotel]	2774	19.0	0.0	0.067	0.064
Door: Glass (over 50% glazing): Metal Frame, Non-Entrance Door, Perf. Specs.: Product ID na, SHGC 0.27, [Bldg. Use 1 - Hotel] (b)	45			0.600	0.450
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Hotel]	50			2.200	0.610
Window: Metal Frame: Fixed, Perf. Specs.: Product ID na, SHGC 0.27, [Bldg. Use 1 - Hotel] (b)	75			0.650	0.380

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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _(a)
Window: Vinyl Frame: Operable, Perf. Specs.: Product ID na, SHGC 0.27, [Bldg. Use 1 - Hotel] (b)	306			0.450	0.450
SOUTH					
LEFT - EIFS: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Hotel]	4160	19.0	7.5	0.043	0.064
Window: Vinyl Frame: Operable, Perf. Specs.: Product ID na, SHGC 0.27, [Bldg. Use 1 - Hotel] (b)	324			0.450	0.450
LEFT - STONE: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Hotel]	1872	19.0	0.0	0.067	0.064
Window: Metal Frame: Fixed, Perf. Specs.: Product ID na, SHGC 0.27, [Bldg. Use 1 - Hotel] (b)	40			0.650	0.380
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Hotel]	26			2.200	0.610
Window: Vinyl Frame: Operable, Perf. Specs.: Product ID na, SHGC 0.27, [Bldg. Use 1 - Hotel] (b)	162			0.450	0.450
WEST					
REAR - EIFS: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Hotel]	3872	19.0	7.5	0.043	0.064
Window: Vinyl Frame: Operable, Perf. Specs.: Product ID na, SHGC 0.27, [Bldg. Use 1 - Hotel] (b)	432			0.450	0.450
REAR - STONE: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Hotel]	2532	19.0	0.0	0.067	0.064
Window: Vinyl Frame: Operable, Perf. Specs.: Product ID na, SHGC 0.27, [Bldg. Use 1 - Hotel] (b)	324			0.450	0.450
Window: Metal Frame: Fixed, Perf. Specs.: Product ID na, SHGC 0.27, [Bldg. Use 1 - Hotel] (b)	72			0.650	0.380

- (a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
- (b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
- (c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 4% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Trevor Tyson Holcomb Name - Title Signature Date

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COMcheck Software Version COMcheckWeb Inspection Checklist Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1] ¹	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	□Complies □Does Not □Not Observable □Not Applicable	
C402.4.1 [PR10] ¹	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.1 [PR11] ¹	The skylight area <= 3 percent of the gross roof area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.2 [PR14] ¹	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling heights > 15 ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= half the floor area; (b) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40; or a minimum skylight effective aperture >= 1 percent.	□Complies □Does Not □Not Observable □Not Applicable	
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:

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Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2 [FO4] ²	Slab edge insulation installed per manufacturer's instructions.	\square Complies \square Does Not	
		□Not Observable □Not Applicable	
[FO6] ¹ Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	\square Complies \square Does Not		
	□Not Observable □Not Applicable		
C105 Installed slab-on-grade insulation ty and R-value consistent with insulation		\square Complies \square Does Not	See the Envelope Assemblies table for values.
	specifications reported in plans and COMcheck reports.	□Not Observable □Not Applicable	
C402.2.4 [FO7] ²	Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil.	□Complies □Does Not	See the Envelope Assemblies table for values.
		□Not Observable □Not Applicable	

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Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12] ²	Fenestration products rated in accordance with NFRC.	\square Complies \square Does Not	
		□Not Observable □Not Applicable	
C303.1.3 [FR13] ¹	Fenestration products are certified as to performance labels or certificates	\square Complies \square Does Not	
	provided.	□Not Observable □Not Applicable	
C402.4.3 [FR10] ¹	Vertical fenestration SHGC value.	□Complies □Does Not	See the Envelope Assemblies table for values.
		□Not Observable □Not Applicable	
C402.4.3, C402.4.3.	and SHGC consistent with label	□Complies □Does Not	See the Envelope Assemblies table for values.
4 [FR8] ¹	4 specifications and as reported in plans and COMcheck reports.	□Not Observable □Not Applicable	
2.2	The building envelope contains a continuous air barrier that is sealed in	□Complies □Does Not	
[FR20] ¹	an approved manner and average assembly air leakage <= 0.04 cfm/ft2. Air barrier penetrations are sealed in an approved manner.	□Not Observable □Not Applicable	
C402.5.4	Factory-built fenestration and doors are labeled as meeting air leakage	□Complies □Does Not	
[FR18] ³	requirements.	□Not Observable □Not Applicable	
C402.5.7 [FR17] ³	Vestibules are installed on all building entrances. Doors have self-closing	□Complies □Does Not	
	devices.	□Not Observable □Not Applicable	

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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.5.5, C403.2.4. 3 [ME3] ³		☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.7 [ME58] ³	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed. Reference section language for operational details.	□Complies □Does Not □Not Observable □Not Applicable	

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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.7 [EL27] ²	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	□Complies □Does Not □Not Observable □Not Applicable	
	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	□Complies □Does Not □Not Observable □Not Applicable	
C405.9 [EL29] ²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	□Complies □Does Not □Not Observable □Not Applicable	

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Section # & Reg.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1 [IN3] ¹	manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in	□Complies □Does Not □Not Observable □Not Applicable	
C402.2.1 [IN20] ¹	ceiling having ceiling tiles is not being specified for roor/ceiling assemblies.	□Complies □Does Not □Not Observable □Not Applicable	
C303.1 [IN10] ²	providing R-value and other relevant	□Complies □Does Not □Not Observable □Not Applicable	
C303.2 [IN7] ¹	per manufacturer's instructions.	□Complies □Does Not □Not Observable □Not Applicable	
C105 [IN6] ¹	type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
C402.2.3 [IN8] ²	value consistent with insulation specifications reported in plans and COMcheck reports	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
C402.2.6 [IN18] ³	components, designed for heat transfer from the panel surfaces to the occupants or indoor space are	□Complies □Does Not □Not Observable □Not Applicable	
C105 [IN2] ¹	value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
C402.5.1. 1 [IN1] ¹		□Complies □Does Not □Not Observable □Not Applicable	

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C402.5.6 [FI37] ¹	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.8 [FI26] ³	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.1.1 [FI57] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	□Complies □Does Not □Not Observable □Not Applicable	

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