Project Information

Energy Code: 2018 IECC

Project Title: Lee's Summit, MO
Location: Lees Summit, Missouri

Climate Zone: 4a

Project Type: New Construction

Vertical Glazing / Wall Area: 6%

Construction Site: 3544 SW Market St. Lee's Summit, Missouri Owner/Agent:
Brant Heflin
Bridgestone Retail Operations LLC
200 4th Ave. South, Suite 100
Nashville, Tennessee 37201

615-927-9251

Designer/Contractor: Mitch Garrett SGA Design Group, P.C. 1437 S. Boulder Ave Suite 550

Suite 550 Tulsa 74119 918-587-8600

Additional Efficiency Package(s)

High efficiency HVAC. Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist report.

Building Area Floor Area

1-Automotive Facility : Nonresidential 6262

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _(a)
Floor 1: Unheated Slab-On-Grade, Vertical 2 ft., [Bldg. Use 1 - Automotive Facility] (d)	354		10.0	0.540	0.540
Roof: Other Metal Building Roof, [Bldg. Use 1 - Automotive Facility] (b)	6262			0.035	0.035
<u>NORTH</u>					
Exterior Wall 2: Other Metal Building Wall, [Bldg. Use 1 - Automotive Facility] (b)	920			0.052	0.052
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Automotive Facility]	31			0.610	0.610
	2271			0.052	0.052
SOUTH					
Exterior Wall 1: Other Metal Building Wall, [Bldg. Use 1 - Automotive Facility] (b)	920			0.052	0.052
Window: Metal Frame Curtain Wall/Storefront, Fixed, Perf. Specs.: Product ID N/A, SHGC 0.43, PF 0.20, [Bldg. Use 1 - Automotive Facility] (c)	270			0.380	0.380
WEST					
Ext. Wall: Other Metal Building Wall, [Bldg. Use 1 - Automotive Facility] (b)	2429			0.052	0.052
Window: Metal Frame Curtain Wall/Storefront, Fixed, Perf. Specs.: Product ID N/A, SHGC 0.43, PF 0.20, [Bldg. Use 1 - Automotive Facility] (c)	120			0.380	0.380

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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _(a)
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Automotive Facility]	800			0.100	0.179
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Automotive Facility]	24			0.610	0.610

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

Envelope PASSES: Design 6% better than code

Envelope Compliance S	statement	
specifications, and other calcula	oposed envelope design represented in this documer ations submitted with this permit application. The process requirements in COMcheck Version COMcheckWeb in the Inspection Checklist.	pposed envelope systems have been
Name - Title	Signature	

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COMcheck Software Version COMcheckWeb Inspection Checklist Francy Code: 2019 JECC

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	

Additional Comments/Assumptions:

	1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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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	
C303.2.1 [FO6] ¹	Exterior insulation protected against damage, sunlight, moisture, wind,	\square Complies \square Does Not	
	landscaping and equipment maintenance activities.	□Not Observable □Not Applicable	
C402.2.4 [FO7] ²	Slab edge insulation depth/length. Slab insulation extending away from	\square Complies \square Does Not	See the Envelope Assemblies table for values.
	building is covered by pavement or >= 10 inches of soil.		

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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	□Complies □Does Not	
	provided.	□Not Observable □Not Applicable	
C402.4.3 [FR10] ¹	Vertical fenestration SHGC value.	\square Complies \square Does Not	See the Envelope Assemblies table for values.
		□Not Observable □Not Applicable	
C402.4.3, C402.4.3.	Vertical fenestration U-Factor.	\square Complies \square Does Not	See the Envelope Assemblies table for values.
4 [FR8] ¹		□Not Observable □Not Applicable	
C402.4.4 [FR14] ²	U-factor of opaque doors associated with the building thermal envelope	□Complies □Does Not	See the Envelope Assemblies table for values.
	meets requirements.	□Not Observable □Not Applicable	
2.1	The building envelope contains a continuous air barrier that is sealed in	□Complies □Does Not	
[FR19] ¹	an approved manner and material permeability <= 0.004 dfm/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	motorized dampers that automatically	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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Section # & Req.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. Continuous insulation board installed	□Complies □Does Not □Not Observable □Not Applicable	
C303.1 [IN10] ²	with R-value or insulation certificate 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	
C303.2.1 [IN14] ²	damage with a protective material. Verification for exposed foundation insulation may need to occur during	□Complies □Does Not □Not Observable □Not Applicable	
C402.1.3 [IN19] ³	4.75 insulation.	□Complies □Does Not □Not Observable □Not Applicable	
C402.2.3 [IN8] ²		□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	
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	C402.5.6 Weatherseals installed on all loading [Fl37]¹ dock cargo door openings and provide		
	direct contact along the top and sides of vehicles parked in the doorway.	□Not Observable □Not Applicable	
C402.5.6 [FI37] ¹	[FI37] ¹ dock cargo door openings and provide		
	direct contact along the top and sides of vehicles parked in the doorway.	□Not Observable □Not Applicable	
[FI37] ¹ dock cargo door openings and provide	□Complies □Does Not		
		□Not Observable □Not Applicable	
C402.5.6 [FI37] ¹	Weatherseals installed on all loading dock cargo door openings and provide	□Complies □Does Not	
	i venicies parked in the doorway.	□Not Observable □Not Applicable	
C402.5.8 [FI26] ³	envelope to limit infiltration and be IC	□Complies □Does Not	
		□Not Observable □Not Applicable	

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