



COMcheck Software Version COMcheckWeb

Envelope Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: CH Lee's Summit
Location: Lees Summit, Missouri
Climate Zone: 4a
Project Type: New Construction
Vertical Glazing / Wall Area: 13%

Construction Site:
540 NW Chipman Road
Lee's Summit, Missouri 64086

Owner/Agent:
Tim McHenry
COOPER'S HAWK WINERY &
RESTAURANT, LLC.
3500 Lacey Road, Suite 1000
Downers Grove, Illinois 60515
708-839-2920
wfisher@chwinery.com

Designer/Contractor:
Daniel Bernatek
ARIA GROUP ARCHITECTS
830 North Blvd
Oak Park, Illinois 60301
708-445-8400
dbernat@ariainc.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Enhanced Interior Lighting Controls, 1.0 credit

Building Area

Floor Area

1-Dining: Bar Lounge/Leisure : Nonresidential	10772
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Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _(a)
Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	10772	---	30.0	0.032	0.032
Floor: Unheated Slab-On-Grade, Horizontal with vertical 2 ft., [Bldg. Use 1 - Dining: Bar Lounge/Leisure] (c)	467	---	10.0	0.700	0.540
NORTH					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	2213	13.0	7.5	0.064	0.064
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID n/a, SHGC 0.39, PF 7.60, [Bldg. Use 1 - Dining: Bar Lounge/Leisure] (b)	48	---	---	0.290	0.380
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	21	---	---	0.350	0.610
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	21	---	---	0.350	0.610
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	28	---	---	0.350	0.610
EAST					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	1736	13.0	7.5	0.064	0.064
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID n/a, SHGC 0.36, [Bldg. Use 1 - Dining: Bar Lounge/Leisure] (b)	216	---	---	0.290	0.380
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	21	---	---	0.350	0.610

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Data filename:

Report date: 08/17/21
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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor ^(a)
SOUTH					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	2384	13.0	7.5	0.064	0.064
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID n/a, SHGC 0.36, [Bldg. Use 1 - Dining: Bar Lounge/Leisure] (b)	70	---	---	0.290	0.380
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID n/a, SHGC 0.36, [Bldg. Use 1 - Dining: Bar Lounge/Leisure] (b)	214	---	---	0.290	0.380
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID n/a, SHGC 0.39, PF 0.55, [Bldg. Use 1 - Dining: Bar Lounge/Leisure] (b)	35	---	---	0.290	0.380
Door: , Perf. Specs.: Product ID n/a, SHGC 0.33, PF 0.55, [Bldg. Use 1 - Dining: Bar Lounge/Leisure] (b)	48	---	---	0.290	0.770
WEST					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	1740	13.0	7.5	0.064	0.064
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID n/a, SHGC 0.36, [Bldg. Use 1 - Dining: Bar Lounge/Leisure] (b)	71	---	---	0.290	0.380
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID n/a, SHGC 0.39, PF 2.75, [Bldg. Use 1 - Dining: Bar Lounge/Leisure] (b)	195	---	---	0.290	0.380
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Bar Lounge/Leisure]	28	---	---	0.350	0.610
Door: , Perf. Specs.: Product ID n/a, SHGC 0.33, PF 2.10, [Bldg. Use 1 - Dining: Bar Lounge/Leisure] (b)	24	---	---	0.290	0.770

(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.

DAN BERNATEK
Name - Title

[Signature]
Signature

8/19/21
Date

