COMcheck Software Version 4.1.4.1
Envelope Compliance Certificate

Project Information

Energy Code:	90.1 (2013) Standard
Project Title:	Jackson County Animal Rescue Center
Location:	Dillsboro, North Carolina
Climate Zone:	4a
Project Type:	New Construction
Vertical Glazing / Wall Area:	9%
Performance Sim. Specs:	EnergyPlus 8.1.0.009 (EPW: USA_NC_Asheville.Rgnl.AP.723150_TMY3.epw)

Construction Site: Owner/Agent: Designer/Contractor:

Building Area	Floor Area
1-Office : Nonresidential	5164

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof 1: Metal Building, Standing Seam, Liner System with Thermal Blocks (e), [Bldg. Use 1 - Office]	5164	30.0	0.0	0.037	0.037
Floor 1: Slab-On-Grade:Unheated, Horizontal with vertical 2 ft., [Bldg. Use 1 - Office] (d)	333	---	15.0	0.590	0.520
NORTH					
Exterior Wall 1: Steel-Framed, 16" o.c., [Bldg. Use 1 - Office]	1271	13.0	10.0	0.055	0.064
Window 1: Metal Frame:Fixed, Perf. Specs.: Product ID Guardian SN 54, SHGC 0.26, PF 0.42, VT 0.54, [Bldg. Use 1 - Office] : Comment: (c)	122	---	---	0.290	0.420
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Office]	76	---	---	0.500	0.500
Door 4: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID pending ID, SHGC 0.40, PF 0.42, VT 0.70, [Bldg. Use 1 - Office] : Comment: (c)	50	---	---	0.570	0.770
EAST					
Exterior Wall 4: Steel-Framed, 16" o.c., [Bldg. Use 1 - Office]	888	13.0	10.0	0.055	0.064
Window 3: Metal Frame:Fixed, Perf. Specs.: Product ID Guardian SN 54, SHGC 0.28, VT 0.54, [Bldg. Use 1 - Office] (c)	90	---	---	0.290	0.420
Window 5: Metal Frame:Fixed, Perf. Specs.: Product ID Guardian SN 54, SHGC 0.26, PF 0.88, VT 0.54, [Bldg. Use 1 - Office] (c)	77	---	---	0.290	0.420
Door 3: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID pending ID, SHGC 0.40, PF 0.88, VT 0.70, [Bldg. Use 1 - Office] (c)	73	---	---	0.570	0.770
SOUTH					
Exterior Wall 2: Steel-Framed, 16" o.c., [Bldg. Use 1 - Office]	470	13.0	10.0	0.055	0.064
Window 2: Metal Frame:Fixed, Perf. Specs.: Product ID Guardian SN 54, SHGC 0.28, PF 3.23, VT 0.54, [Bldg. Use 1 - Office] (c)	4	---	---	0.290	0.420
Door 2: Insulated Metal, Swinging, [Bldg. Use 1 - Office]	26	---	---	0.500	0.500
Exterior Wall 3: Other Mass Wall, Heat capacity 1.6, [Bldg. Use 1 - Office] (b)	802	---	---	0.070	0.064

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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Door 5: Insulated Metal, Swinging, [Bldg. Use 1 - Office] : Comment:	49	---	---	0.500	0.500
WEST					
Exterior Wall 5: Steel-Framed, 16" o.c., [Bldg. Use 1 - Office]	805	13.0	10.0	0.055	0.064
Door 6: Insulated Metal, Swinging, [Bldg. Use 1 - Office]	26	---	---	0.500	0.500
Exterior Wall 6: Other Mass Wall, Heat capacity 1.6, [Bldg. Use 1 - Office] (b)	527	---	---	0.070	0.064
Window 4: Metal Frame:Fixed, Perf. Specs.: Product ID Guardian SN 54, SHGC 0.28, PF 3.00, VT 0.54, [Bldg. Use 1 - Office] (c)	8	---	---	0.290	0.420

(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.
(e) Thermal spacer block with minimum R-3.5 must be installed above the purlin/batt, and the roof deck secured to the purlins.

Envelope PASSES: Design 2% 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 90.1 (2013) Standard requirements in COMcheck Version 4.1.4.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Caroline (Cary) Perkins, AIA, Architect 9/2/2020
Name - Title Signature Date

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Data filename: P:\GRV\019216.00 - Jackson County Animal Rescue Center\File Cabinet\3.0_Ref Materials\3-1 Code Research\3-1-5 Energy Code\COMcheck.cck Page 2 of 11

NOTE: FLOOR AREA FOR ENVELOPE COMPLIANCE CONSISTS OF BUSINESS (100 GROSS), STORAGE (S-1) AND SHORT TERM INTAKE HOLDING. PLEASE SEE SHEET G012 FOR LOCATION AND DISTRIBUTION OF AREAS.

Order Plans @ WWW.LDILine.com

9/2/2020 5:34:17 PM BIM 360://019216.00_Jackson County Animal Rescue Center/Arch_Jackson County Animal Rescue Center_R19.rvt
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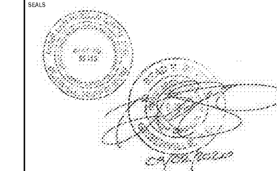
mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS



JACKSON COUNTY
ANIMAL RESCUE CENTER AND GREEN ENERGY PARK
DILLSBORO, NORTH CAROLINA

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	9/2/2020	ISSUE FOR BID + PERMIT	

PRINCIPAL IN CHARGE:	CP
PROJECT ARCHITECT:	CP
DRAWN BY:	Author

SHEET TITLE:
COMcheck REPORTS

SHEET NO. G011
PROJ. NO. 019216.00