COMcheck Software Version 4.0.2.8 **Envelope Compliance Certificate**

Project Information

Energy Code:

2015 IECC

Project Title:

Dollar General Lillington #23680

Location:

Lillington, North Carolina

Climate Zone:

Project Type:

New Construction

Vertical Glazing / Wall Area:

3%

Construction Site: 7003 NC Hwy. 421 N Lillington, NC 27546 Owner/Agent: Pittman Lee Rhetson Companies, Inc. 2075 Juniper Lake Road West End, NC 3580127376 910-944-0881

Ipittman@rhetson.com

Designer/Contractor: Tim O'Connell Rhetson Companies, Inc. 2075 Juniper Lake Road West End, NC 27376 910-944-0881 timo@rhetson.com

Building Area

Floor Area

1-Retail: Nonresidential

9100

Additional Efficiency Package

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

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	10640	36.0	5.0	0.027	0.035
Blocks (d), [Bldg. Use 1 - Retail] Floor 1: Slab-On-Grade:Unheated, Vertical 2 ft., [Bldg. Use 1 - Retail] (c)	427		8.4	0.560	0.550
<u>NORTH</u> Exterior Wall 2: Metal Building Wall, Single Layer Mineral Fiber, [Bldg.	2123	0.0	19.0	0.050	0.052
Use 1 - Retail] Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Retail]	21		<u></u>	0.700	0.610
<u>EAST</u> Exterior Wall 3: Metal Building Wall, Single Layer Mineral Fiber, [Bldg.	1120	0.0	19.0	0.050	0.052
Use 1 - Retail] Window 1: Metal Frame with Thermal Break:Fixed, Perf. Specs.: Product ID Assa Abloy, SHGC 0.25, PF 0.55, VT 0.50, [Bldg. Use 1 -	168			0.320	0.380
Retail] (b) Door 2: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID Assa Abbloy, SHGC 0.30, PF 0.55, VT 0.60, [Bldg. Use 1 - Retail] (b)	42			0.300	0.770
SOUTH Exterior Wall 4: Metal Building Wall, Single Layer Mineral Fiber, [Bldg.	1820	0.0	19.0	0.050	0.052
Use 1 - Retail] Door 3: Insulated Metal, Swinging, [Bldg. Use 1 - Retail]	42			0.700	0.610
WEST					

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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _(a)
Exterior Wall 1: Metal Building Wall, Single Layer Mineral Fiber, [Bldg. Use 1 - Retail]	1120	0.0	19.0	0.050	0.052

- (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.
- (d) 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 13% 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 2015 IECC requirements in COMcheck Version 4.0.2.8 and to comply with the mandatory requirements listed in the Inspection Checklist.

Signature

Project Title:

Dollar General Lillington #23680

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