

COMcheck Software Version COMcheckWeb
Envelope Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: ALDI Virginia Beach Blvd (Thalia ENVELOPE ONLY)
 Location: Virginia Beach, Virginia
 Climate Zone: 4a
 Project Type: New Construction
 Vertical Glazing / Wall Area: 7%

Construction Site: 4220 Virginia Beach Blvd, Virginia Beach, Virginia 23452
 Owner/Agent: ALDI Inc., 1985 Old Union Church Rd., Salisbury, North Carolina 28146
 Designer/Contractor: ms consultants, 2221 Schrock Road, Columbus 43229, 614.898.7100

Building Area	Floor Area
1-Sales, Office, Warehouse (Retail) - Nonresidential	19054

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

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Floor: Insulation Entirety Above Deck, [Bldg. Use 1 - Sales, Office, Warehouse]	18148	---	25.0	0.038	0.038
Floor: Slab-On-Grade Unheated, Vertical 4 ft., [Bldg. Use 1 - Sales, Office, Warehouse] (b)	698	---	10.0	0.480	0.440
NORTH					
Dock Wall - Side: Steel-Framed, 16" o.c., [Bldg. Use 1 - Sales, Office, Warehouse]	422	14.8	10.1	0.054	0.064
Door 110C: Insulated Metal Swinging, [Bldg. Use 1 - Sales, Office, Warehouse]	24	---	---	0.167	0.610
EAST					
Long Wall - Back: Steel-Framed, 16" o.c., [Bldg. Use 1 - Sales, Office, Warehouse]	1718	14.8	10.1	0.054	0.064
Storefront Type H: Metal Frame Fixed, Part. Type: Energy code default, Double Pane with Low-E, Clear, SHGC 0.70, PF 1.12, VT 0.80, [Bldg. Use 1 - Sales, Office, Warehouse]	20	---	---	0.800	0.380
Short Wall - Back: Steel-Framed, 16" o.c., [Bldg. Use 1 - Sales, Office, Warehouse]	2170	14.8	10.1	0.054	0.064
SOUTH					
Short Wall - Front: Steel-Framed, 16" o.c., [Bldg. Use 1 - Sales, Office, Warehouse]	1807	14.8	10.1	0.054	0.064
Storefront Type A: Metal Frame Fixed, Part. Type: Energy code default, Double Pane with Low-E, Clear, SHGC 0.70, PF 1.12, VT 0.80, [Bldg. Use 1 - Sales, Office, Warehouse]	103	---	---	0.800	0.380
Storefront Type B: Metal Frame Fixed, Part. Type: Energy code default, Double Pane with Low-E, Clear, SHGC 0.70, PF 1.12, [Bldg. Use 1 - Sales, Office, Warehouse]	137	---	---	0.800	0.380

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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
VT 0.60, [Bldg. Use 1 - Sales, Office, Warehouse]					
Storefront Type D: Metal Frame Fixed, Part. Type: Energy code default, Double Pane with Low-E, Clear, SHGC 0.70, PF 1.12, VT 0.60, [Bldg. Use 1 - Sales, Office, Warehouse]	129	---	---	0.800	0.380
Door 110A: Insulated Metal Swinging, [Bldg. Use 1 - Sales, Office, Warehouse]	24	---	---	0.167	0.610
WEST					
Dock Wall - Front: Steel-Framed, 16" o.c., [Bldg. Use 1 - Sales, Office, Warehouse]	348	14.8	10.1	0.054	0.064
Door 110B: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Sales, Office, Warehouse]	64	---	---	0.110	0.480
Storefront Above Door 101A: Metal Frame Fixed, Part. Type: Energy code default, Single Pane, Clear, SHGC 0.80, PF 2.97, VT 0.60, [Bldg. Use 1 - Sales, Office, Warehouse]	40	---	---	1.200	0.80
Long Wall - Front: Steel-Framed, 16" o.c., [Bldg. Use 1 - Sales, Office, Warehouse]	2605	14.8	10.1	0.054	0.064
Storefront Door 101A: Glass (>50% glazing) Metal Frame, Part. Type: Energy code default, Single Pane, Clear, SHGC 0.80, PF 0.74, VT 0.60, [Bldg. Use 1 - Sales, Office, Warehouse]	126	---	---	1.200	0.80
Storefront Type C: Metal Frame Fixed, Part. Type: Energy code default, Double Pane with Low-E, Clear, SHGC 0.70, PF 2.97, VT 0.60, [Bldg. Use 1 - Sales, Office, Warehouse]	55	---	---	0.800	0.380
Door 103B: Insulated Metal Swinging, [Bldg. Use 1 - Sales, Office, Warehouse]	29	---	---	0.167	0.610

(a) Budget U-factors are used for software baseline calculations ONLY, and are not enforceable.
 (b) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Project Notes
 This file is for the envelope only, mechanical and lighting are separate.

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 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Eric Elizondo - Architect
 Name - Title: Eric M. Elizondo Signature Date: 04/07/17

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COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 90.1 (2013) Standard
 Project Title: 62-40330-39 Montoursville MEP
 Project Type: Addition

Construction Site: 2595 Wilmont Dr, Montoursville, Pennsylvania 17754
 Owner/Agent: ALDI Inc., 2700 Saucon Valley Road, Center Valley 18034
 Designer/Contractor: ms consultants, 2221 Schrock Road, Columbus 43229, 614.898.7100

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Grocery (Retail-Sales Area)	18893	1.43	27206
Total Allowed Watts =			27206

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Grocery (Retail-Sales Area)				
LED 1: L1, 8' LED Strip, Other	1	111	68	9768
LED 1H: L1H, 8' LED Strip HO, Other	1	14	100	1400
LED 4: L4, 2'x4' LED Troffer, Other	1	8	44	396
LED 5: L5, LED Track Head, Other	1	28	41	1148
Total Proposed Watts =				12712

Interior Lighting PASSES: Design 83% better than code

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Daniel E. Dowler - PE
 Name - Title: Daniel E. Dowler Signature Date: 03/28/17

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Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 90.1 (2013) Standard
 Project Title: 62-40330-39 Montoursville MEP
 Project Type: Addition
 Exterior Lighting Zone: 2 (Neighborhood business district)

Construction Site: 2595 Wilmont Dr, Montoursville, Pennsylvania 17754
 Owner/Agent: ALDI Inc., 2700 Saucon Valley Road, Center Valley 18034
 Designer/Contractor: ms consultants, 2221 Schrock Road, Columbus 43229, 614.898.7100

Allowed Exterior Lighting Power

A Area/Category	B Quantity	C Allowed Watts / Tradable Wattage	D Tradable Wattage	E Allowed Watts (B X C)
Entry canopy	1041 ft ²	0.25	Yes	260
Egress (Other door (not main entry))	11 ft of	20	Yes	220
Total Tradable Watts (a) =				812
Total Allowed Supplemental Watts (b) =				600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
 (b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Entry canopy (1041 ft ²): Tradable Wattage				
Walkway (7.10 feet wide) (227 ft ²): Tradable Wattage	1	6	43	258
Main entry (7 ft of door width): Tradable Wattage				
Egress (Other door (not main entry)) (11 ft of door width): Tradable Wattage				
LED 2: L21, Wall Pack, Other	1	3	43	129
Roll-up (Other door (not main entry)) (8 ft of door width): Tradable Wattage				
Total Tradable Proposed Watts =				287

Exterior Lighting PASSES: Design 73% better than code

Exterior Lighting Compliance Statement
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: 62-40330-39 Montoursville MEP Report date: 03/09/17
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COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information
 Energy Code: 90.1 (2013) Standard
 Project Title: 62-40330-39 Montoursville MEP
 Location: Montoursville, Pennsylvania
 Climate Zone: 5a (weather data TBD)
 Project Type: Addition

Construction Site: 2595 Wilmont Dr, Montoursville, Pennsylvania 17754
 Owner/Agent: ALDI Inc., 2700 Saucon Valley Road, Center Valley 18034
 Designer/Contractor: ms consultants, 2221 Schrock Road, Columbus 43229, 614.898.7100

Mechanical Systems List

Quantity	System Type & Description
1	HVAC System 1 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 405 kBtu/h Proposed Efficiency = 80.00% Eo, Required Efficiency = 80.00% Eo Cooling: 1 each - Single Package DX Unit, Capacity = 328 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 11.90 SEER, Required Efficiency = 9.80 SEER (14 IEER) Fan System: FAN SYSTEM 1 Sales Floor - Compliance (Motor nameplate HP method) - Fails Fans: RTU1 Supply, Single-Zone VAV, 7900 CFM, 10.0 motor nameplate hp, 0.0 fan efficiency
1	HVAC System 2 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 85 kBtu/h Proposed Efficiency = 80.00% Eo, Required Efficiency = 80.00% Eo Cooling: 1 each - Single Package DX Unit, Capacity = 52 kBtu/h, Air-Cooled Condenser Proposed Efficiency = 13.00 SEER, Required Efficiency = 14.00 SEER Fan System: FAN SYSTEM 2 Office Area - Compliance (Motor nameplate HP method) - Passes Fans: RTU2 Supply, Constant Volume, 800 CFM, 0.2 motor nameplate hp, 0.0 fan efficiency SYSTEM COMPLIANCE FAILS: PROPOSED EFFICIENCY FAILS TO MEET CODE REQUIREMENTS.
1	Water Heater 1: Electric Storage Water Heater, Capacity 20 gallons No minimum efficiency requirement applies

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Issued:	Date:
A Client Review Set	04/07/17
B Permit Set	04/07/17
C Bid Set	09/05/17
D	

Revisions:	Date:
1	
2	
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 REVIEWED BY: KFF/DED

Seal
 PROFESSIONAL OF RECORD:
 DANIEL E. DOWLER No 0402054658
 EXP. DATE: 02/28/2019

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 (704) 642-0073
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ALDI Inc. Store #: 161
 VA Beach Store & Thalia
 4220 Virginia Beach Blvd
 Virginia Beach, VA 23452
 Willis Wayside
 Project Name & Location:

COMcheck

Drawing Name:
 Prototype Rls. 02/08/17 Project No. 40320-40
 Type: RHSD-V7
 Scale: As Noted Drawing No. G-003

Order Plans