

COMcheck Software Version COMcheck-Web
Interior Lighting Compliance Certificate

Project Information
Energy Code: 2012 IECC
Project Title: 40452-13 Aldi Store #65 Charlotte, NC
Project Type: New Construction

Construction Site: 6113 Idlewild Road, Charlotte, NC 28209
Owner/Agent: ALDI, Inc., 1985 Old Union Church Road, Salisbury, NC 28146, 704-642-0028
Designer/Contractor: ms consultants, inc., 2221 Salsbury Road, Columbus, OH 43229, 614-998-7100

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

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1 Grocery Store (Retail)	21115	1.30	27460
Total Allowed Watts =			27460

Proposed Interior Lighting Power

A Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Watt (C X D)	E (C X D)
1 Grocery Store (Retail)				
LED L1: Other	1	33	57	1140
LED L2: Other	1	39	72	1056
LED L3: Other	1	8	37	296
LED L4: Other	1	18	72	1296
LED L5: Other	1	10	37	660
LED L6: Other	1	4	72	288
LED L7: Other	1	7	28	196
LED L8: Other	1	33	45	1485
LED L9: Other	1	16	68	1088
LED L10: Other	1	2	44	88
LED L11: Other	1	10	44	704
LED L12: Other	1	7	83	441
LED L13: Other	1	36	18	648
LED L14: Other	1	6	38	216
Total Proposed Watts =			15882	

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Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	47000 sq	0.06	Yes	2820
Entry canopy	800 sq	0.35	Yes	280
Illuminated length of facade wall or surface	205 ft	2.5	No	758
Main entry	8 ft of door	20	Yes	160
Other door (not main entry)	12 ft of	20	Yes	240
Total Allowed Watts =			4622	
Total Allowed Supplemental Watts =			622	

Proposed Exterior Lighting Power

A Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Watt (C X D)	E (C X D)
Parking area (12000 sq) Tradable Wattage				
LED L1: Other	1	4	112	448
LED L2: Other	4	2	448	896
Entry canopy (800 sq) Tradable Wattage				
LED L3: Other	1	4	42	172
Illuminated length of facade wall or surface (205 ft) Non-Tradable Wattage				
LED L4: Other	1	32	928	
Main entry (8 ft of door width) Tradable Wattage	1		88	
LED L5: Other	1	4	172	
Other door (not main entry) (12 ft of door width) Tradable Wattage				
LED L6: Other	1	4	172	
Walkways (1818 sq) Tradable Wattage				
Total Proposed Watts =			1624	

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Envelope Compliance Certificate

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Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Window Above Vertical: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID: Product ID Kawneer 451, SHGC 0.43, PF 1.00, (Bldg. Use 1 - Grocery Store) (c)	48	---	---	0.330	0.480
Window Type A: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Kawneer 451, SHGC 0.43, PF 0.80, (Bldg. Use 1 - Grocery Store) (b)	46	---	---	0.330	0.460
Window Type B: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Kawneer 451, SHGC 0.43, PF 0.11, (Bldg. Use 1 - Grocery Store) (a)	46	---	---	0.330	0.460
Window Type C: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Kawneer 451, SHGC 0.43, PF 0.11, (Bldg. Use 1 - Grocery Store) (a)	53	---	---	0.330	0.480
Window Type D: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Kawneer 451, SHGC 0.43, PF 0.80, (Bldg. Use 1 - Grocery Store) (b)	31	---	---	0.330	0.480
Window Type E: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Kawneer 451, SHGC 0.43, PF 0.11, (Bldg. Use 1 - Grocery Store) (a)	31	---	---	0.330	0.480
Long Wall of Tower & Deck Steel-Framed 16in. o.c. (Bldg. Use 1 - Grocery Store)	4433	14.0	10.1	0.054	0.064
Vertical Door - Parf. Type Energy code default, Single Pane, Clear, SHGC 0.60, PF 0.74, (Bldg. Use 1 - Grocery Store)	151	---	---	1.200	0.770

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

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Mechanical Systems List

Quantity	Type & Description
1	HVAC System (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 85 kBtu/h Proposed Efficiency = 80.00% EER, Required Efficiency = 80.00% EER Cooling: 1 each - Single Package DX Unit, Capacity = 264 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 13.00 SEER, Required Efficiency = 13.00 SEER Fan System: FAN SYSTEM 2 (RTU) - Compliance (Motor nameplate HP method): Passes
1	HVAC System (Single Zone) Heating: 1 each - Other, Electric, Capacity = 12 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Split System, Capacity = 9 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Proposed Efficiency = 20.00 SEER, Required Efficiency = 13.00 SEER Fan System: FAN SYSTEM 3 (RTU) - Compliance (Motor nameplate HP method): Passes
1	Water Heater Electric Storage Water Heater, Capacity: 20 gallons No minimum efficiency requirement applies

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Report date: 11/27/17
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Mechanical Compliance Certificate

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Project Information
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Project Title: 40452-13 Aldi Store #65 Charlotte, NC
Project Type: New Construction

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Owner/Agent: ALDI, Inc., 1985 Old Union Church Road, Salisbury, NC 28146, 704-642-0028
Designer/Contractor: ms consultants, inc., 2221 Salsbury Road, Columbus, OH 43229, 614-998-7100

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Mechanical Systems List

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Project Title: 40452-13 Aldi Store #65 Charlotte, NC
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Envelope Compliance Statement

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Additional Efficiency Package
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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 COMcheck-Web and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Eric Elzondo
Name - Title: Signature: Date: 12/02/2017

Project Title: 40452-13 Aldi Store #65 Charlotte, NC
Report date: 11/27/17
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Issued: Date:

A	Permit Set	12/05/17
B	Client Review Set	05/03/18
C	Bid Set	05/11/18
D		

Revisions: Date:

1		
5		
6		
7		
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9		

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REVIEWED BY: JAB

Seal

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ALDI Inc. Store #: 65
Charlotte, NC
6113 Idlewild Road
Charlotte, NC 28212
Mecklenburg County
Project Name & Location:

COMcheck

Drawing Name:
Prototype Rls. 09/07/17
Project No. 40452-13

Type: LHSD-V8
G-003

Scale: As Noted
Drawing No.