



COMcheck Software Version 4.0.6.2
Mechanical Compliance Certificate

Project Information

Energy Code: 2012 IECC
Project Title: Panda Express
Location: Franklin, Tennessee
Climate Zone: 4a
Project Type: New Construction

Construction Site: 2430 Goose Creek Bypass Lot 194 Franklin, TN 37064
Owner/Agent: Panda Express, Inc. 1683 Walnut Grove Avenue Rosemead, CA 91770 626-799-9898
Designer/Contractor: Kurzynske & Associates 2900 Lebanon Pike Suite 201 Nashville, TN 37214 615-255-5203

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

Mechanical Systems List

Quantity	System Type & Description
1	RTU 1 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 115 kBtu/h Proposed Efficiency = 81.00% Et, Required Efficiency = 80.00% Et Cooling: 1 each - Single Package DX Unit, Capacity = 57 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 15.20 SEER, Required Efficiency: 13.00 SEER Fan System: None
1	RTU 2 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 224 kBtu/h Proposed Efficiency = 82.00% Et, Required Efficiency = 80.00% Et Cooling: 1 each - Single Package DX Unit, Capacity = 112 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 11.50 EER, Required Efficiency: 11.00 EER + 11.2 IEEER Fan System: None
1	RTU 3 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 224 kBtu/h Proposed Efficiency = 82.00% Et, Required Efficiency = 80.00% Et Cooling: 1 each - Single Package DX Unit, Capacity = 112 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 11.50 EER, Required Efficiency: 11.00 EER + 11.2 IEEER Fan System: None
1	Make-up Air Unit (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 407 kBtu/h Proposed Efficiency = 92.00% Et, Required Efficiency = 80.00% Et Cooling: 1 each - Split System, Capacity = 120 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 12.00 EER, Required Efficiency: 11.00 EER + 11.2 IEEER Fan System: None
1	Gas Water Heater: Gas Storage Water Heater, Capacity: 50 gallons, Input Rating: 98 Btu/h w/ Circulation Pump Proposed Efficiency: 95.00 % Et, Required Efficiency: 80.00 % Et
1	Electric Water Heater: Electric Storage Water Heater, Capacity: 10 gallons w/ Circulation Pump No minimum efficiency requirement applies

Project Title: Panda Express
Data filename: F:\Prototypes\Panda Express\2017 Panda Express\PE1706 - Franklin, TN\DWGs\PE1706 - Envel_Mech COMCheck.cck
Report date: 12/21/17
Page 1 of 12

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.6.2 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Panda Express
Data filename: F:\Prototypes\Panda Express\2017 Panda Express\PE1706 - Franklin, TN\DWGs\PE1706 - Envel_Mech COMCheck.cck
Report date: 12/21/17
Page 2 of 12



COMcheck Software Version 4.0.6.2
Envelope Compliance Certificate

Project Information

Energy Code: 2012 IECC
Project Title: Panda Express
Location: Franklin, Tennessee
Climate Zone: 4a
Project Type: New Construction
Vertical Glazing / Wall Area: 28%

Construction Site: 2430 Goose Creek Bypass Lot 194 Franklin, TN 37064
Owner/Agent: Panda Express, Inc. 1683 Walnut Grove Avenue Rosemead, CA 91770 626-799-9898
Designer/Contractor: Kurzynske & Associates 2900 Lebanon Pike Suite 201 Nashville, TN 37214 615-255-5203

Building Area	Floor Area
1-Dining: cafeteria/fast food - Nonresidential	2216

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

Envelope Assemblies

Assembly or Perimeter	Gross Area	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _{req}
Roof: Insulation Entirely Above Deck; High Albedo Roof Required, [Bldg. Use 1 - Dining: cafeteria/fast food]	2216	---	30.0	0.032	0.039
Slab: Slab-On-Grade:Unheated, [Bldg. Use 1 - Dining: cafeteria/fast food] (c)	200	---	---	0.730	0.540
NORTH Back Wall (DT Side): Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: cafeteria/fast food]	725	19.0	6.6	0.045	0.064
Drive-thru Window: Metal Frame, Perf. Specs.: Product ID Solarban, SHGC 0.39, PF 0.35, [Bldg. Use 1 - Dining: cafeteria/fast food] (b)	18	---	---	0.250	0.380
EAST Right Wall (Back Door): Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: cafeteria/fast food]	475	19.0	6.6	0.045	0.064
Rear Door: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: cafeteria/fast food]	28	---	---	0.560	0.610
SOUTH Front Wall (Storefront): Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: cafeteria/fast food]	700	19.0	6.6	0.045	0.064
Storefront Side Door: Glass (> 50% glazing) Metal Frame, Non-Entrance Door, Perf. Specs.: Product ID Solarban, SHGC 0.39, PF 0.33, [Bldg. Use 1 - Dining: cafeteria/fast food] (b)	50	---	---	0.250	0.770
Storefront Side Bay Windows: Metal Frame:Fixed, Perf. Specs.: Product ID Solarban, SHGC 0.39, PF 0.19, [Bldg. Use 1 - Dining: cafeteria/fast food] (b)	309	---	---	0.250	0.380

Project Title: Panda Express
Data filename: F:\Prototypes\Panda Express\2017 Panda Express\PE1706 - Franklin, TN\DWGs\PE1706 - Envel_Mech COMCheck.cck
Report date: 12/21/17
Page 1 of 9

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _{req}
WEST Left Wall (Patio Wall): Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining: cafeteria/fast food]	500	19.0	6.6	0.045	0.064
Side Bay Windows: Metal Frame:Fixed, Perf. Specs.: Product ID Solarban, SHGC 0.39, PF 0.58, [Bldg. Use 1 - Dining: cafeteria/fast food] (b)	228	---	---	0.250	0.380
Storefront Door: Glass (> 50% glazing) Metal Frame, Entrance Door, Perf. Specs.: Product ID Solarban, SHGC 0.39, PF 0.58, [Bldg. Use 1 - Dining: cafeteria/fast food] (b)	58	---	---	0.250	0.770

- (a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Penetration 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 8% 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 2012 IECC requirements in COMcheck Version 4.0.6.2 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Panda Express
Data filename: F:\Prototypes\Panda Express\2017 Panda Express\PE1706 - Franklin, TN\DWGs\PE1706 - Envel_Mech COMCheck.cck
Report date: 12/21/17
Page 2 of 9



PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.6288

All ideas, designs, arrangement and plans indicated or represented by this drawing are the property of Panda Express Inc. and were created for use on this specific project. None of these ideas, designs, arrangements or plans may be used by or disclosed to any person, firm, or corporation without the written permission of Panda Express Inc.

REVISIONS:

ISSUE DATE:

1st	ISSUE FOR PERMIT	12-22-17

DRAWN BY: RR

PANDA PROJECT #: S8-18-D5306
ARCH PROJECT #: 1706

Project No.
PE1706

Kurzynske
& Associates
CONSULTING ENGINEERS
2900 Lebanon Pike Suite 201
Nashville, Tennessee 37214



12-22-17

PANDA EXPRESS
BERRY FARMS - 2430 Goose Cree Bypass - Lot 194
GOOSE CREEK BYPASS at LEWISBURG PIKE
FRANKLIN, TN 37064

2200 TRUE WARM & WELCOME (DD3)

M-502

COMPLIANCE REPORT