COMcheck Software Version 4.1.0.0

Mechanical Compliance Certificate

Project Information

Energy Code:	2017 Florida Building Code, Energy Conservation
Project Title:	Panda Express
Location:	Gulf Breeze, Florida
Climate Zone:	2a
Project Type:	New Construction

Construction Site:
3868 Gulf Breeze Parkway
Gulf Breeze, FL

Owner/Agent:
Panda Restaurant Group Inc.
1683 Walnut Grove Avenue
Rosemead, CA 91770, CA 91770
626-733-9898

Designer/Contractor:
Kurzynske & Associates
2900 Lebanon Pike
Suite 201
Nashville, TN 37214
615-255-5203

Additional Efficiency Package(s)

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 = 108 kBtu/h
Proposed Efficiency = 80.00% AFUE, Required Efficiency: 80.00 % AFUE (or 80% Et)
Cooling: 1 each - Single Package DX Unit, Capacity = 57 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 15.50 SEER, Required Efficiency: 14.00 SEER
Fan System: None

1 RTU-2 (Single Zone)
Heating: 1 each - Central Furnace, Gas, Capacity = 180 kBtu/h
Proposed Efficiency = 80.00% AFUE, Required Efficiency: 80.00 % AFUE (or 80% Et)
Cooling: 1 each - Single Package DX Unit, Capacity = 111 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.00 EER, Required Efficiency: 11.00 EER + 12.6 IEER
Fan System: None

1 RTU-3 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 180 kBtu/h
Proposed Efficiency = 80.00% AFUE, Required Efficiency: 80.00 % AFUE (or 80% Et)
Cooling: 1 each - Single Package DX Unit, Capacity = 111 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.00 EER, Required Efficiency: 11.00 EER + 12.6 IEER
Fan System: None

1 Makeup Air Unit (MAU-1) (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 400 kBtu/h
Proposed Efficiency = 82.00% 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 + 12.6 IEER
Fan System: None

1 Water Heater:
Gas Storage Water Heater, Capacity: 80 gallons, Input Rating: 120 kBtu/h w/ Circulation Pump
Proposed Efficiency: 90.00 % Et, Required Efficiency: 80.00 % Et

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 2017 Florida Building Code, Energy Conservation requirements in *COMcheck* Version 4.1.0.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COMcheck Software Version 4.1.0.0

Envelope Compliance Certificate

Project Information

Energy Code:	2017 Florida Building Code, Energy Conservation
Project Title:	Panda Express
Location:	Gulf Breeze, Florida
Climate Zone:	2a
Project Type:	New Construction
Vertical Glazing / Wall Area:	12%

Construction Site:
3868 Gulf Breeze Parkway
Gulf Breeze, FL

Owner/Agent:
Panda Restaurant Group Inc.
1682 Walnut Grove Avenue
Rosemead, CA 91770, CA 91770
626-733-9898

Designer/Contractor:
Kurzynske & Associates
2900 Lebanon Pike
Suite 201
Nashville, TN 37214
615-255-5203

Additional Efficiency Package(s)

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

Building Area **Floor Area**

1 Dining; Cafeteria/Fast Food 2216

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof: Insulation Entirely Above Deck: High Albedo Roof Required, 3-Year-Aged Solar Reflectance = 0.68, Thermal Emittance = 0.84 (d). [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	0.730
NORTH					
Right Wall (Back Door): Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining; Cafeteria/Fast Food]	580	19.0	6.6	0.045	0.064
Rear Door: Insulated Metal, Swinging, [Bldg. Use 1 - Dining; Cafeteria/Fast Food]	25	--	--	0.360	0.610
EAST					
Front Wall (Storefront): Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining; Cafeteria/Fast Food]	1020	19.0	6.6	0.045	0.064
Storefront Door: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID Solarban 90 Low E, SHGC 0.23, PF 0.15, [Bldg. Use 1 - Dining; Cafeteria/Fast Food] (b)	21	--	--	0.240	0.830
Storefront Door Sidelites & Transom: Metal Frame:Fixed, Perf. Specs.: Product ID Solarban 90 Low E, SHGC 0.23, PF 0.15, [Bldg. Use 1 - Dining; Cafeteria/Fast Food] (b)	27	--	--	0.240	0.500
Storefront Side Bay Windows: Metal Frame:Fixed, Perf. Specs.: Product ID Solarban 90 Low E, SHGC 0.23, PF 0.15, [Bldg. Use 1 - Dining; Cafeteria/Fast Food] (b)	155	--	--	0.240	0.500
Storefront Side Door: Glass (> 50% glazing):Metal Frame, Non-Entrance Door, Perf. Specs.: Product ID Solarban 90Low E, SHGC	25	--	--	0.240	0.830

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
0.23, PF 0.15, [Bldg. Use 1 - Dining; Cafeteria/Fast Food] (b)					
Storefront Side Sidelites & Transom:Side Door: Metal Frame:Fixed, Perf. Specs.: Product ID Solarban 90 Low E, SHGC 0.23, PF 0.15, [Bldg. Use 1 - Dining; Cafeteria/Fast Food] (b)	24	---	---	0.240	0.500
SOUTH					
Left Wall (Patio Wall): Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining; Cafeteria/Fast Food]	580	19.0	6.6	0.045	0.064
Side Bay Windows: Metal Frame:Fixed, Perf. Specs.: Product ID Solarban 90 Low E, SHGC 0.23, PF 0.51, [Bldg. Use 1 - Dining; Cafeteria/Fast Food] (b)	140	---	---	0.240	0.500
WEST					
Back Wall (DT Side): Wood-Framed, 16" o.c., [Bldg. Use 1 - Dining; Cafeteria/Fast Food]	1020	19.0	6.6	0.045	0.064
Drive-Thru Window: Metal Frame:Operable, Perf. Specs.: Product ID Solarban 90 Low E, SHGC 0.23, PF 0.43, [Bldg. Use 1 - Dining; Cafeteria/Fast Food] (b)	32	---	---	0.240	0.690

(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) High albedo roof requirement options: 1) 3-year aged solar reflectance >= 0.55 thermal emittance >= 0.75, 2) 3-year aged solar reflectance index >= 64.0, 3) Initial year aged solar reflectance >= 0.70 thermal emittance >= 0.75, 4) Initial year aged solar reflectance index >= 82.0.

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 2017 Florida Building Code, Energy Conservation requirements in COMcheck Version 4.1.0.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

MECHANICAL COMPLIANCE REPORT 1
No Scale M-502

ENVELOPE COMPLIANCE REPORT 2
No Scale M-502

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REVISIONS:

1	JURISDICTIONAL COMMENTS	11-29-18

ISSUE DATE:

1st	ISSUE FOR BUILDING PERMIT	08-16-18
2nd	ISSUE FOR BID	11-29-18

DRAWN BY: RR

PANDA PROJECT #: S8-19-D6558
ARCH PROJECT #: 1804

Project No. PE1804

Kurzynske & Associates
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3868 GULF BREEZE PARKWAY
GULF BREEZE, FL

2200 TRUE - R1 - DAB 12

M-502
COMPLIANCE REPORT