

COMcheck Software Version 4.0.6.2
Envelope Compliance Certificate

Project Information

Energy Code: 90.1 (2007) Standard
Project Name: Burger King
Location: Kingstree, South Carolina
Climate Zone: 3a
Project Type: New Construction
Vertical Glazing / Wall Area: 10%

Construction Site: 206 Longstreet, Kingstree, SC 29556
Owner/Agent: Bruce Daniels, Carolina Franchise Holding, PO BOX 711, Greenwood, SC 29648, 646-462-5481
Designer/Contractor: Arie Kohn Architects, PC, 74 Woodstock Road, Roswell, GA 30075, 770-642-3785, arie@akohmarch.com

Building Area	Floor Area
1. Dining, Cafeteria/Fast Food, Nonresidential	2,360

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
High Elevation Wood Framed, 1/2" c.c., 5/8" Ins. Use 1 - Dining, Cafeteria/Fast Food	1103	16.0	2.0	0.628	0.680
Window 1 Metal Frame Curtain Wall/Storefront, Perf. Specs., Product ID N/A, SHGC 0.25, PF 0.50, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	78	---	---	0.602	0.600
Window 1 copy 1 Metal Frame Curtain Wall/Storefront, Perf. Specs., Product ID N/A, SHGC 0.25, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	29	---	---	0.600	0.600
Window 1 copy 2 Metal Frame Curtain Wall/Storefront, Perf. Specs., Product ID N/A, SHGC 0.25, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	85	---	---	0.600	0.600
Door 1 Glass (+20% glazing) Metal Frame, Entrance Door, Perf. Specs., Product ID N/A, SHGC 0.25, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	21	---	---	0.900	0.900
Front Elevation Wood Framed, 1/2" c.c., 5/8" Ins. Use 1 - Dining, Cafeteria/Fast Food	643	16.0	2.0	0.628	0.680
Roof 1 Insulation Entirely Above Deck, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	19	---	---	0.028	0.028
Low Elevation Wood Framed, 1/2" c.c., 5/8" Ins. Use 1 - Dining, Cafeteria/Fast Food	1103	16.0	2.0	0.628	0.680
Window 6 Metal Frame Curtain Wall/Storefront, Perf. Specs., Product ID N/A, SHGC 0.25, PF 0.50, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	69	---	---	0.600	0.600

Project Title: Burger King
Data filename: \\15507.168.44.313\ar\en\COMcheck\Burger King - Kingstree.SC.cck
Report date: 06/28/19
Page: 1 of 9

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Floor (b)	---	---	---	---	---
Window 6 Metal Frame Curtain Wall/Storefront, Perf. Specs., Product ID N/A, SHGC 0.25, PF 0.50, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	38	---	---	0.600	0.600
Window 7 Metal Frame Curtain Wall/Storefront, Perf. Specs., Product ID N/A, SHGC 0.25, PF 0.50, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	32	---	---	0.600	0.600
Front Elevation Wood Framed, 1/2" c.c., 5/8" Ins. Use 1 - Dining, Cafeteria/Fast Food	643	16.0	2.0	0.628	0.680
Window 8 Metal Frame Curtain Wall/Storefront, Perf. Specs., Product ID N/A, SHGC 0.25, PF 0.50, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	152	---	---	0.600	0.600
Window 9 Metal Frame Curtain Wall/Storefront, Perf. Specs., Product ID N/A, SHGC 0.25, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	67	---	---	0.600	0.600
Window 9 copy 1 Metal Frame Curtain Wall/Storefront, Perf. Specs., Product ID N/A, SHGC 0.25, PF 0.50, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	27	---	---	0.600	0.600
Window 9 copy 2 Metal Frame Curtain Wall/Storefront, Perf. Specs., Product ID N/A, SHGC 0.25, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	51	---	---	0.600	0.600
Door 9 Glass (+20% glazing) Metal Frame, Entrance Door, Perf. Specs., Product ID N/A, SHGC 0.25, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	21	---	---	0.900	0.900
Roof 1 Insulation Entirely Above Deck, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	2300	---	---	0.028	0.028

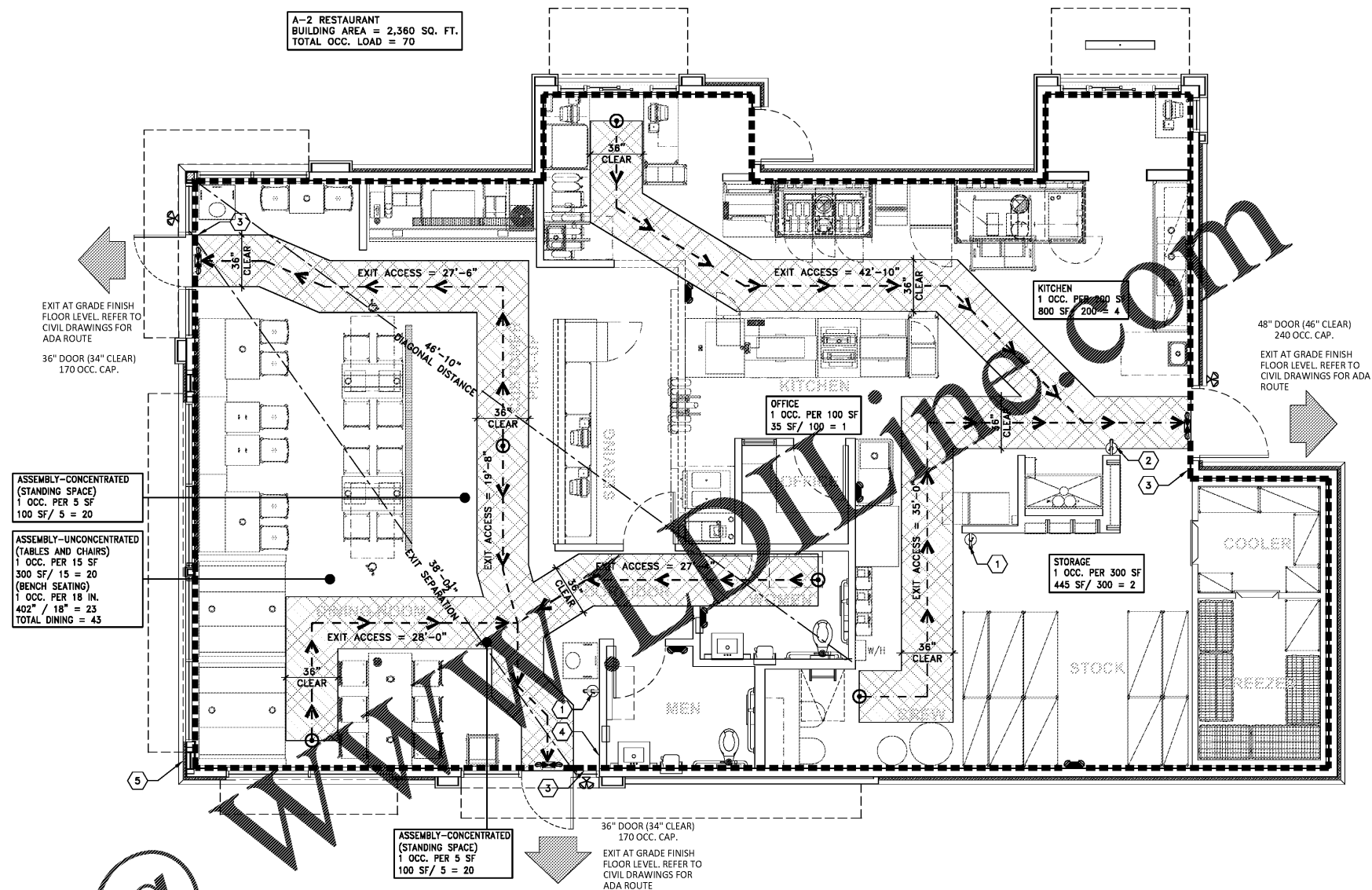
(a) Budget U-factors are used for software baseline calculations. (b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation. (c) Slab-On-Grade proposed and budget U-factors shown in table size R-factors.

Envelope Compliance Statement
I, the undersigned, as the registered professional engineer, architect, or other professional, certify that the design, construction, and other calculations submitted with this permit application, the proposed construction, and other calculations submitted with this permit application, have been designed to meet the 90.1, 2007 Standard requirements in COMcheck Version 4.0.6.2 in accordance with any applicable mandatory requirements listed in the Instruction Checklist.

ARI KOHN - ARCHITECT.
Name - Title: Arie Kohn, Architect
Signature: [Signature]
Date: 06/28/19

Project Title: Burger King
Data filename: \\15507.168.44.313\ar\en\COMcheck\Burger King - Kingstree.SC.cck
Report date: 06/28/19
Page: 2 of 9

A-2 RESTAURANT
BUILDING AREA = 2,360 SQ. FT.
TOTAL OCC. LOAD = 70



LIFE SAFETY PLAN
SCALE: 1/4" = 1'-0"

- CODED KEYED NOTES**
- SURFACE MOUNTED TYPE ABC FIRE EXTINGUISHER, MOUNT @ 44" A.F.F., COORDINATE FINAL LOCATIONS AND QUANTITY WITH FIRE MARSHAL.
 - TYPE K FIRE EXTINGUISHER, COORDINATE FINAL LOCATIONS AND QUANTITY WITH FIRE MARSHAL. LOCATE WITHIN 30'-0" OF HOOD.
 - PROVIDE TACTILE EXIT SIGN.
 - POST SIGNAGE LISTING THE ASSEMBLY OCCUPANT LOAD IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT DOOR FROM THE SPACE.
 - POST THE BUILDING ADDRESS WITH A MINIMUM OF 4" NUMBERS ON A CONTRASTING BACKGROUND THAT IS VISIBLE FROM THE STREET. FIELD VERIFY REQUIREMENTS WITH LOCAL FIRE DEPARTMENT PRIOR TO START OF CONSTRUCTION.

LIFE SAFETY PLAN LEGEND

SYMBOL	TYPE
▬▬▬▬	EXIT ACCESS TRAVEL DISTANCE
←	OCCUPANT PER EXIT
⊙	MOST REMOTE POINT
☼	EXIT SIGNAGE / EMERGENCY LIGHTING
☼	FIRE EXTINGUISHER

- GENERAL NOTES**
- MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE TO AN EXIT IS 75'-0" MEASURED AT THE MOST REMOTE POINT ALONG THE NATURAL AND UNOBSTRUCTED PATH OF HORIZONTAL AND VERTICAL TRAVEL TO THE EXIT. THE COMMON PATH OF TRAVEL DISTANCE MUST BE LESS THAN 20 FEET WHERE THE PATH OF TRAVEL SERVES 50 OR MORE OCCUPANTS PER NFPA 101.
 - DISTANCE BETWEEN TWO POINTS OF EGRESS (MEASURED IN A STRAIGHT LINE BETWEEN THE TWO) SHALL NOT BE LESS THAN 1/2 DIAGONAL DISTANCE OF THE SPACE BEING SERVED BY EGRESS PATH.
 - MINIMUM DISTANCE BETWEEN SEATS IS 12 INCHES FOR A DISTANCE OF 12'-0" WITH AN ADDITIONAL 1/2" WIDTH FOR EACH 1'-0" OR FRACTION THEREOF BEYOND THE ORIGINAL 12'-0".
 - EGRESS ALONG SEATING IS MEASURED 19 INCHES FROM EDGE OF TABLE WHERE MOVEABLE CHAIRS ARE USED, OR FROM THE EDGE OF A FIXED SEAT.
 - PROVIDE FIRE EXTINGUISHERS AS REQUIRED PER APPLICABLE CODES AND COORDINATE EXACT QUANTITY AND LOCATION WITH FIRE MARSHAL.
 - PER IFC, THE MINIMUM FIRE EXTINGUISHER REQUIREMENT IS A 2A10BC EXTINGUISHER WITHIN 75'-0" OF TRAVEL DISTANCE OF ALL AREAS AND A MINIMUM RATED CLASS "K" FIRE EXTINGUISHER WITHIN 30'-0" OF COMMERCIAL COOKING EQUIPMENT.
 - PROVIDE AND INSTALL OCCUPANCY SIGN IN A CONSPICUOUS LOCATION IN ACCORDANCE WITH STATE & LOCAL CODES.
 - ALL LIGHT SWITCHES, THERMOSTATS, SECURITY ALARMS, ELECTRICAL OUTLETS, ETC. MUST BE MOUNTED TO MEET ALL GOVERNING ACCESSIBILITY REQUIREMENTS FOR FLOOR & HEIGHT CLEARANCES AND ONE HAND GRASPING OPERATION.
 - ALL MEANS OF EGRESS DOOR OPENING HARDWARE SHALL BE OPERATED BY A SINGLE HAND WITHOUT MEANS OF TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE. ALL DOORS EQUIPPED WITH PANIC HARDWARE MUST MAINTAIN A 32" CLEAR WIDTH. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED: 5.0 L.B.F.
 - NFPA INSPECTION TAGS SHALL BE ATTACHED TO ALL FIRE EXTINGUISHERS.

Order Plans @

B1916

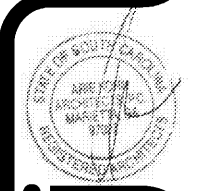
DATE	RELEASE FOR
08.26.19	FOR CONSTRUCTION

CHECKED BY: AK
DRAWN BY: CY

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PROJECT: B1916
DATE: 07/27/2019

BURGER KING RESTAURANT

ENERGY COMPLIANCE & LIFE SAFETY PLAN