

DATE	RELEASE
08.26.19	FOR CONSTRUCTION

CHECKED BY: AC  
DRAWN BY: KY

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DRAWINGS FOR:  
**BRUCE DANIELS  
CAROLINA RE HOLDINGS, LLC  
P.O. BOX 711  
GREENWOOD, SC 29649  
646-462-5481**

**ARIE KOHN ARCHITECTS, P.C.**  
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PROJECT: B1931  
DATE: 07/27/2019

SC HWY. 5-781 & SC HWY. 125  
BEECH ISLAND, SC 29642

**BURGER KING RESTAURANT**  
#026-20-03-003

## COMcheck Software Version 4.0.6.2 Envelope Compliance Certificate

**Project Information**  
Energy Code: 2015 (2007) Standard  
Project Title: Burger King  
Location: North Augusta, South Carolina  
Climate Zone: 3A  
Project Type: New Construction  
Ventilation Method: Mechanical

Construction Site: 3119 E. 29th St., Suite 225  
Beech Island, SC 29642

Owner/Agent: Bruce Daniels  
Carolina Franchise Holding  
PO BOX 711  
Greenwood, SC 29648  
646-462-5481

Designer/Architect: Arie Kohn  
Arie Kohn Architects, PC  
74 Woodstock Road  
Roswell, GA 30075  
770-642-9030  
arie@akarch.com

Building Area	Floor Area
1-Dining, Cafeteria/Fast Food - Nonresidential	2360

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Right Elevation, Wood-Framed, 1 1/2" x 4" (Bldg. Use 1 - Dining, Cafeteria/Fast Food)	1501	19.0	2.0	0.038	0.085
Window 1: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID NA, SHGC 0.25, PF 0.90, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	78	---	---	0.600	0.800
Window 1 copy 2: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID NA, SHGC 0.25, PF 0.90, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	28	---	---	0.600	0.800
Window 1 copy 3: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID NA, SHGC 0.25, PF 0.90, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	51	---	---	0.600	0.800
Door 1: Glass (1/2" glazing)/Metal Frame, Entrance Door, Perf. Specs.: Product ID NA, SHGC 0.25, PF 0.90, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	21	---	---	0.900	0.900
Rear Elevation, Wood-Framed, 1 1/2" x 4" (Bldg. Use 1 - Dining, Cafeteria/Fast Food)	843	19.0	2.0	0.038	0.085
Door 4: Insulated Metal, Swing-In, (Bldg. Use 1 - Dining, Cafeteria/Fast Food)	19	---	---	0.820	0.700
Left Elevation, Wood-Framed, 1 1/2" x 4" (Bldg. Use 1 - Dining, Cafeteria/Fast Food)	1101	19.0	2.0	0.038	0.085
Window 2: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID NA, SHGC 0.25, PF 0.90, (Bldg. Use 1 - Dining, Cafeteria/Fast Food)	89	---	---	0.600	0.800

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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Floor 2:					
Window 6: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID NA, SHGC 0.25, PF 0.90, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	38	---	---	0.600	0.800
Window 7: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID NA, SHGC 0.25, PF 0.90, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	32	---	---	0.600	0.800
Front Elevation, Wood-Framed, 1 1/2" x 4" (Bldg. Use 1 - Dining, Cafeteria/Fast Food)	843	19.0	2.0	0.038	0.085
Window 8: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID NA, SHGC 0.25, PF 0.90, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	182	---	---	0.600	0.800
Window 8: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID NA, SHGC 0.25, PF 0.90, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	57	---	---	0.600	0.600
Window 9 copy 1: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID NA, SHGC 0.25, PF 0.90, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	27	---	---	0.600	0.900
Window 9 copy 2: Metal Frame Curtain Wall/Storefront, Perf. Specs.: Product ID NA, SHGC 0.25, PF 0.90, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	51	---	---	0.600	0.900
Door 5: Glass (1/2" glazing)/Metal Frame, Entrance Door, Perf. Specs.: Product ID NA, SHGC 0.25, PF 0.90, (Bldg. Use 1 - Dining, Cafeteria/Fast Food) (b)	21	---	---	0.900	0.900
Floor 1: Study-On-Grade, Unheated, (Bldg. Use 1 - Dining, Cafeteria/Fast Food)	222	---	---	0.730	0.730
Roof 1: Insulation Embodied Above Deck, (Bldg. Use 1 - Dining, Cafeteria/Fast Food)	2360	---	30.0	0.032	0.045

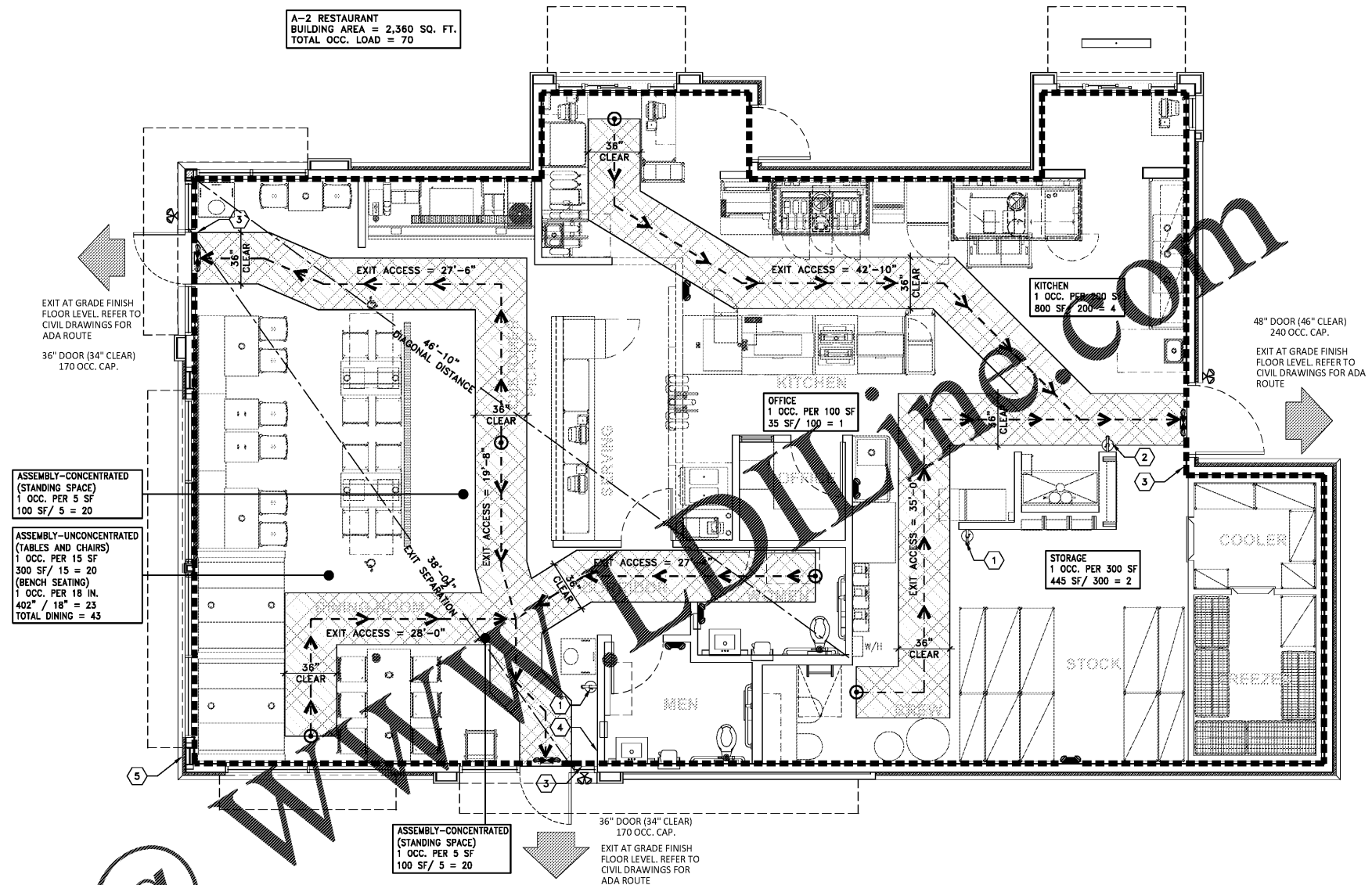
(a) Budget U-factors are used for software baseline calculations only, and are not code requirements.  
(b) Performance based calculations must be provided in accordance with IBC 703 and requires supporting documentation and shall be made available and budget U-factors shown in table are F-factors.

**Envelope Compliance Statement**  
Compliance Statement: The proposed envelope design represented in this document complies with the building code requirements, and other calculations submitted with this permit application. The proposed envelope design has been designed to meet the 2015 (2007) Standard requirements in COMcheck Version 4.0.6.2 in accordance with the applicable mandatory requirements listed in the Inspection Checklist.

ARIE KOHN, ARCHITECT  
DATE: 08-28-19

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



**ASSEMBLY-CONCENTRATED  
(STANDING SPACE)**  
1 OCC. PER 5 SF  
100 SF / 5 = 20

**ASSEMBLY-UNCONCENTRATED  
(TABLES AND CHAIRS)**  
1 OCC. PER 15 SF  
300 SF / 15 = 20  
BENCH SEATING  
1 OCC. PER 18 IN.  
402" / 18" = 23  
TOTAL DINING = 43

**ASSEMBLY-CONCENTRATED  
(STANDING SPACE)**  
1 OCC. PER 5 SF  
100 SF / 5 = 20

### 1 LIFE SAFETY PLAN

SCALE: 1/4" = 1'-0"

#### CODED KEYED NOTES

- 1 SURFACE MOUNTED TYPE ABC FIRE EXTINGUISHER, MOUNT @ 44" A.F.F., COORDINATE FINAL LOCATIONS AND QUANTITY WITH FIRE MARSHAL.
- 2 TYPE K FIRE EXTINGUISHER, COORDINATE FINAL LOCATIONS AND QUANTITY WITH FIRE MARSHAL. LOCATE WITHIN 30'-0" OF HOOD.
- 3 PROVIDE TACTILE EXIT SIGN.
- 4 POST SIGNAGE LISTING THE ASSEMBLY OCCUPANT LOAD IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT DOOR FROM THE SPACE.
- 5 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

- A. 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.
- B. 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.
- C. 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".
- D. EGRESS ALONG SEATING IS MEASURED 19 INCHES FROM EDGE OF TABLE WHERE MOVABLE CHAIRS ARE USED, OR FROM THE EDGE OF A FIXED SEAT.
- E. PROVIDE FIRE EXTINGUISHERS AS REQUIRED PER APPLICABLE CODES AND COORDINATE EXACT QUANTITY AND LOCATION WITH FIRE MARSHAL.
- F. 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.
- G. PROVIDE AND INSTALL OCCUPANCY SIGN IN A CONSPICUOUS LOCATION IN ACCORDANCE WITH STATE & LOCAL CODES.
- H. 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.
- I. 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.
- J. NFPA INSPECTION TAGS SHALL BE ATTACHED TO ALL FIRE EXTINGUISHERS.

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