COMcheck Software Version 3.8.0

Interior Lighting Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: New Construction
Project Title: Keller Springs Lofts

Construction Site: Owner/Agent: Designer/Contractor:
Keller Springs & Addison Rd. Gerald Zucker
Addison, TX Embery

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
common areas (Multifamily)	65092	0.7	46264
Parking Garage	118034	0.3	47680
		Total Allowed Watts =	93945

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
common areas (Multifamily 65092 sq.ft.)				
Compact Fluorescent 1: Triple 4-pin 32W / Electronic	1	594	35	20790
Linear Fluorescent 1: 48" T8 32W / Electronic	2	108	65	7020
Compact Fluorescent 2: Triple 4-pin 26W / Electronic	1	68	25	1682
Compact Fluorescent 3: Triple 4-pin 42W / Electronic	1	6	45	270
Compact Fluorescent 4: Triple 4-pin 13W / Electronic	1	1	143	143
Linear Fluorescent 2: 48" T5 HO 54W / Electronic	2	12	128	1536
Parking Garage (118034 sq.ft.)				
HID 1: Metal Halide 175W / Pulse start	1	192	190	37248
			Total Proposed Watts =	68497

Section 4: Requirements Checklist

Lighting Wattage:

☐ 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
93945	68497	YES

Controls, Switching, and Wiring:

☐ 2. Daylight zones under daylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.

☐ 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:

☐ Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.

☐ Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

☐ 4. Independent controls for each space (switch/occupancy sensor).

Exceptions:

☐ Areas designated as security or emergency areas that must be continuously illuminated.

☐ Lighting in stairways or corridors that are elements of the means of egress.

☐ 5. Master switch at entry to hotel/motel guest room.

☐ 6. Individual dwelling units separately metered.

☐ 7. Medical tube lighting or preliminary display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.

☐ 8. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp lamp sets independently of other lamps, or switching each luminaire or each lamp.

Exceptions:

☐ Only one luminaire in space.

☐ An occupant-sensing device controls the area.

☐ The area is a corridor, stairwoods, restroom, public lobby or sleeping unit.

☐ Areas that can less than 0.6 Watts/sq.ft.

☐ 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

Exceptions:

☐ Sleeping units, patient care areas and spaces where automatic shutoff would endanger safety or security.

☐ 10 Photovoltaic-minimal time switch on exterior lights.

Exceptions:

☐ Lighting intended for 24 hour use.

☐ 11. Tandem wired overlamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Exceptions:

☐ Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Interior Lighting PASSES: Design 27% better than code

Section 5: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 3.8.0 and to comply with the mandatory requirements in the Requirements Checklist.

Mike Jennings Sec Designer 8/8/2011
Name - Title Signature Date

10-17-2011

REVISIONS

KELLER SPRINGS LOFTS

LOFT APARTMENTS IN ADDISON, TEXAS

CONSTRUCTION ISSUE
10-17-2011

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DATE
08-05-2011

PROJECT
11129

SHEET NUMBER
1.5
RES. CHECK
MUTLI-FAMILY

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