



COMcheck Software Version 4.0.5.3

Interior Lighting Compliance Certificate

Section 1: Project Information

Energy Code: **2014 Oregon Energy Efficiency Specialty Code**
 Project Title: Reedville Crossing Clinic
 Project Type: New Construction

Construction Site:
 SE 75th Ave. & TV Highway
 Hillsboro, OR

Owner/Agent:

Designer/Contractor:
 Chris Winer
 MFIA, Inc.
 2007 SE Ash Street
 Portland, OR 97214

Section 2: Interior Lighting and Power Calculation

A	B Floor Area	C Allowed Watts / ft ²	D Allowed Watts
Health Care-Clinic	6898	0.89	6139
Total Allowed Watts =			6139

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)
Health Care-Clinic (6898 sq.ft.)				
TYPE "A": Other:	1	25	72	1800
TYPE "A2" / "A2E": Other:	1	5	72	360
TYPE "A3": Other:	1	13	47	611
TYPE "A4" / "A4E": Other:	1	8	39	312
TYPE "B": Other:	1	1	20	20
TYPE "B2" / "B2E": Other:	1	26	36	936
TYPE "B3": Other:	1	2	40	80
TYPE "B4": Other:	1	4	36	144
TYPE "B5": Other:	1	4	36	144
TYPE "C": Other:	1	5	35	175
TYPE "C2": Other:	1	2	29	58
TYPE "D": Other:	1	3	39	117
TYPE "F2": Other:	1	8	12	96
TYPE "G": Other:	1	7	18	126
TYPE "J": Other:	1	11	14	154
Total Proposed Watts =			5133	

Section 4: Requirements Checklist

In the following requirements, blank checkboxes identify requirements that the applicant has not acknowledged as being met. Checkmarks identify requirements that the applicant acknowledges are met or excepted from compliance. 'Plans reference page/section' identifies where in the plans/specs the requirement can be verified as being satisfied.

Lighting Wattage:

- ✓ 1. Total proposed watts must be less than or equal to total allowed watts.
 Allowed Wattage: 6139 Proposed Wattage: 5133
 Complies: YES

Mandatory Requirements:

- ✓ 2. Exit signs. Internally illuminated exit signs shall not exceed 5 watts per side.

Plans reference page/section: Sheet E2.00 and E4.00

- ✓ 3. Daylight zone control. All daylight zones are provided with individual controls that control the lights independent of general area lighting in the non-daylight zone. In all individual daylight zones larger than 350 sq.ft., automatic daylight controls is provided. Automatic daylight sensing controls reduce the light output of the controlled luminaires at least 50 percent, and provide an automatic OFF control, while maintaining a uniform level of illumination. Contiguous daylight zones adjacent to vertical fenestration may be controlled by a single controlling device provided that they do not include zones facing more than two adjacent cardinal orientations (i.e., north, east, south, west). Daylight zones under skylights shall be controlled separately from daylight zones adjacent to vertical fenestration.

Plans reference page/section: Sheet E2.00

- ✓ 4. Interior lighting controls. At least one local shutoff lighting control has been provided for every 2,000 square feet of lit floor area and each area enclosed by walls or floor-to-ceiling partitions. The required controls are located within the area served by the controls or are a remote switch that identifies the lights served and indicates their status.

Plans reference page/section: Sheet E2.00

- ✓ 5. Sleeping unit controls. Master switch at entry to hotel/motel guest room.

Plans reference page/section: Does not apply

- ✓ 6. Egress lighting. Egress illumination is controlled by a combination of listed emergency relay and occupancy sensors to shut off during periods that the building space served by the means of egress is unoccupied.

Plans reference page/section: Sheet E2.00

- ✓ 7. Additional controls. Each area that is required to have a manual control shall have additional controls that meet the requirements of Sections 505.2.2.1 and 505.2.2.2.

Plans reference page/section: Sheet E2.00

- ✓ 8. Light reduction controls. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either
- 1) controlling (dimming or multi-level switching) all luminaires; or
 - 2) dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps; or
 - 3) switching the middle lamp luminaires independently of other lamps; or
 - 4) switching each luminaire or each lamp.

Plans reference page/section: Sheet E2.00

- ✓ 9. Buildings larger than 2,000 square feet are equipped with an automatic control device to shut off lighting in those areas. This automatic control device shall function on either:
- 1) a scheduled basis, using time-of-day, with an independent program schedule that controls the interior lighting in areas that do not exceed 10,000 square feet and are not more than one floor; or
 - 2) an occupant sensor that shall turn lighting off within 30 minutes of an occupant leaving a space; or
 - 3) a signal from another control or alarm system that indicates the area is unoccupied.

Plans reference page/section: Sheet E2.00

- ✓ 10. Occupancy sensors in rooms that include daylight zones are required to have Manual ON activation.

Plans reference page/section: Sheet E2.00

- ✓ 11. An occupant sensor control device is installed that automatically turns lighting off within 30 minutes of all occupants leaving a space.

Plans reference page/section: Sheet E2.00

- ✓ 12. Additional controls. An occupant sensor control device that automatically turns lighting off within 30 minutes of all occupants leaving a space or a locally activated switch that automatically turns lighting off within 30 minutes of being activated is installed in all storage and supply rooms up to 1000 square feet.

Plans reference page/section: Sheet E2.00

- ✓ 13. Occupant override. Automatic lighting shutoff operating on a time-of-day scheduled basis incorporates an override switching device that: 1) is readily accessible, 2) is located so that a person using the device can see the lights or the area controlled by that switch, or so that the area being lit is annunciated, 3) is manually operated, 4) allows the lighting to remain on for no more than 2 hours when an override is initiated, and 5) controls an area not exceeding 2,000 square feet.

Plans reference page/section: Sheet E2.00

- ✓ 14. Holiday scheduling. Automatic lighting shutoff operating on a time-of-day scheduled basis has an automatic holiday scheduling feature that turns off all loads for at least 24 hours, then resumes the normally scheduled operation.

Plans reference page/section: Sheet E2.00

- ✓ 15. Exterior lighting controls. Lighting not designated for dusk-to-dawn operation shall be controlled by either a combination of a photosensor and a time switch, or an astronomical time switch. Lighting designated for dusk-to-dawn operation shall be controlled by an astronomical time switch or photosensor.

