



# Certificate of Design Application

From Designer: Foreside Architects, LLC - Mark J. Burnes, NCARB AIA  
 Date: 8/19/2014  
 Job Name: Sage Wellness Office Renovation  
 Address of Construction: 978-980 Forest Avenue, Portland

## 2009 International Building Code

Construction project was designed to the building code criteria listed below:

Building Code & Year: 2009 IBC Use Group Classification (s) Business

Type of Construction Type V

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC No, Existing Conditions

Is the Structure mixed use? No If yes, separated or non separated or non separated (section 302.3) \_\_\_\_\_

Supervisory alarm System? Yes Geotechnical/Soils report required? (See Section 1802.2) No

### Structural Design Calculations

N/A Submitted for all structural members (106.1 - 106.11)

### Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (7603.11, 1807)

Floor Area Use	Loads Shown
<small>Existing Conditions to remain unchanged</small>	

### Wind loads (1603.1.4, 1609)

Existing Conditions to remain unchanged  Design option utilized (1609.1.1, 1609.6)

Basic wind speed (1609.3)
Building category and wind importance Factor, $I_w$ (Table 1604.5, 1609.5)
Wind exposure category (1609.4)
Internal pressure coefficient (ASCE 7)
Component and cladding pressures (1609.1.1, 1609.6.2.2)
Main force wind pressures (7603.1.1, 1609.6.2.1)

### Earth design data (1603.1.5, 1614-1623)

<small>Existing Conditions to remain unchanged</small> <input checked="" type="checkbox"/> Design option utilized (1614.1)
Seismic use group ("Category")
Spectral response coefficients, $S_D$ & $S_1$ (1615.1)
Site class (1615.1.5)

<small>Existing Conditions to remain unchanged</small> <input checked="" type="checkbox"/> Live load reduction
Roof live loads (1603.1.2, 1607.11)
Roof snow loads (1603.7.3, 1608)
Ground snow load, $P_g$ (1608.2)
If $P_g > 10$ psf, flat-roof snow load $P_f$
If $P_g > 10$ psf, snow exposure factor, $C_e$
If $P_g > 10$ psf, snow load importance factor, $I_s$
Roof thermal factor, $C_t$ (1608.4)
Sloped roof snowload, $P_s$ (1608.4)
Seismic design category (1616.3)
Basic seismic force resisting system (1617.6.2)
Response modification coefficient, $R_d$ and deflection amplification factor, $C_d$ (1617.6.2)
Analysis procedure (1616.6, 1617.5)
Design base shear (1617.4, 1617.5.1)

### Flood loads (1803.1.6, 1612)

<u>NA</u> Flood Hazard area (1612.3)
Elevation of structure

### Other loads

<u>NA</u> Concentrated loads (1607.6)
Partition loads (1607.5)
Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)