



# Certificate of Design Application

From Designer: re\*fab, llc  
 Date: 11/16/2016  
 Job Name: Artemisia Cafe  
 Address of Construction: 61 Pleasant Street, Portland, ME 04101

## 2009 International Building Code

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

Building Code & Year IBC-2009 Use Group Classification (S) B - business

Type of Construction \_\_\_\_\_

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IBC Y

Is the Structure mixed use? Y If yes, separated or non separated (section 302.3) non separated

Supervisory alarm System? Y Geotechnical/Soils report required? (See Section 1802.2) \_\_\_\_\_

### Structural Design Calculations

\_\_\_\_\_ 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 \_\_\_\_\_

\_\_\_\_\_ \_\_\_\_\_  
 \_\_\_\_\_ \_\_\_\_\_  
 \_\_\_\_\_ \_\_\_\_\_  
 \_\_\_\_\_ \_\_\_\_\_

### Wind loads (1603.1.4, 1609)

\_\_\_\_\_ Design option utilized (1609.1.1, 1609.6)

\_\_\_\_\_ Basic wind speed (1809.3)

\_\_\_\_\_ Building category and wind importance Factor,  $I_p$  (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)

\_\_\_\_\_ Mean force wind pressures (7603.1.1, 1609.6.2.1)

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

\_\_\_\_\_ Design option utilized (1614.1)

\_\_\_\_\_ Seismic use group ("Category")

\_\_\_\_\_ Spectral response coefficients,  $S_D$  &  $S_I$  (1615.1)

\_\_\_\_\_ Site class (1615.1.5)

\_\_\_\_\_ 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,  $E$   
 \_\_\_\_\_ If  $P_g > 10$  psf, snow load importance factor,  $I_f$   
 \_\_\_\_\_ 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,  $R$ , and deflection amplification factor,  $C_d$  (1617.6.2)  
 \_\_\_\_\_ Analysis procedure (1616.6, 1617.5)  
 \_\_\_\_\_ Design base shear (1617.4, 16175.5.1)

### Flood loads (1803.1.6, 1612)

\_\_\_\_\_ Flood Hazard area (1612.3)

\_\_\_\_\_ Elevation of structure

### Other loads

\_\_\_\_\_ Concentrated loads (1607.4)

\_\_\_\_\_ Partition loads (1607.5)

\_\_\_\_\_ Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)