



# Certificate of Design Application

From Designer: STRUCTURAL ENGINEER: JEZERINAK GEERS  
 Date: 09.18.15  
 Job Name: CHIPOTLE MEXICAN GRILL  
 Address of Construction: 195 KENNEBEC ST. , PORTLAND, ME 04101

## 2009 International Building Code

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

Building Code & Year 2009 IBC Use Group Classification (s) A-2

Type of Construction II B

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC YES

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

Supervisory alarm System? FIRE ALARM Geotechnical/Soils report required? (See Section 1802.2) N/A - TENANT FIT-OUT

### 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
RETAIL 1st FLOOR	100 PSF

### Wind loads (1603.1.4, 1609)

Design option utilized (1609.1.1, 1609.6)  
90 MPH Basic wind speed (1809.3)  
1.0 Building category and wind importance Factor,  $I_w$  (table 1604.5, 1609.5)  
3 Wind exposure category (1609.4)  
1/-0.18 Internal pressure coefficient (ASCE 7)  
24.3 PSF Component and cladding pressures (1609.1.1, 1609.6.2.2)  
N/A Main force wind pressures (7603.1.1, 1609.6.2.1)

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

N/A Design option utilized (1614.1)  
II Seismic use group ("Category")  
0.325 / 0.123 Spectral response coefficients,  $S_D$  &  $S_{D1}$  (1615.1)  
D Site class (1615.1.5)

N/A Live load reduction  
20 PSF Roof live loads (1603.1.2, 1607.11)  
42 PSF Roof snow loads (1603.7.3, 1608)  
60 PSF Ground snow load,  $P_g$  (1608.2)  
42 PSF If  $P_g > 10$  psf, flat-roof snow load  $P_f$   
1 If  $P_g > 10$  psf, snow exposure factor,  $C_e$   
1 If  $P_g > 10$  psf, snow load importance factor,  $I_s$   
1 Roof thermal factor,  $C_t$  (1608.4)  
1 Sloped roof snowload,  $P_s$  (1608.4)  
C Seismic design category (1616.3)  
N/A Basic seismic force resisting system (1617.6.2)  
N/A Response modification coefficient,  $R$ , and deflection amplification factor  $C_d$  (1617.6.2)  
N/A Analysis procedure (1616.6, 1617.5)  
N/A Design base shear (1617.4, 1617.5.1)

### Flood loads (1803.1.6, 1612)

N/A Flood Hazard area (1612.3)  
N/A Elevation of structure

### Other loads

N/A Concentrated loads (1607.4)  
N/A Partition loads (1607.5)  
N/A Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)