



# Certificate of Design Application

From Designer: Hudson Design Group LLC  
 Date: 08-26-15  
 Job Name: Monument Square ME  
 Address of Construction: 1 Monument Square, 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) Group B (Business)

Type of Construction 2B

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC n/a (Existing)

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

Supervisory alarm System? n/a Geotechnical/Soils report required? (See Section 1802.2) n/a

### 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

### Wind loads (1603.1.4, 1609)

  Design option utilized (1609.1.1, 1609.6)  
110 mph Basic wind speed (1809.3)  
II, 1.0 Building category and wind importance factor,  $I_w$  (table 1604.5, 1609.5)  
B 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)

  Design option utilized (1614.1)  
  Seismic use group ("Category")  
  Spectral response coefficients,  $S_s$  &  $S_1$  (1615.1)  
  Site class (1615.1.5)

  Live load reduction  
20 psf Roof live loads (1603.1.2, 1607.11)  
31.5 psf Roof snow loads (1603.7.3, 1608)  
50 psf 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)

  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)