



Certificate of Design Application

From Designer: Richard Goduti, AIA
 Date: August 4th, 2014
 Job Name: The Park Danforth
 Address of Construction: 777 Stevens Ave, Portland, ME

2009 International Building Code
 Construction project was designed to the building code criteria listed below:

Building Code & Year 2009 IBC Use Group Classification (s) I-1
 Type of Construction IB
 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? 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 (1603.11, 1807)

Floor Area Use	Loads Shown
residential apts.	40.0 PSF
common	100.0 PSF

Wind loads (1603.1.4, 1609)

N/A Design option utilized (1609.1.1, 1609.6)
II Basic wind speed (1809.3)
I Building category and wind importance Factor, I_w table 1604.5, 1609.5
I Wind exposure category (1609.4)
II Internal pressure coefficient (ASCE 7)
II Component and cladding pressures (1609.1.1, 1609.6.2.2)
I Main force wind pressures (1603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

N/A Design option utilized (1614.3)
II Seismic use group ("Category")
I Spectral response coefficients, S_s & S_{D1} (1615.1)
I Site class (1615.1.5)

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

Flood loads (1803.1.6, 1612)

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

Other loads

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