



Certificate of Design Application

From Designer: MICHAEL P. HAYS
 Date: 2/8/2010
 Job Name: OFFICE RENOVATIONS AT F.L. PUTNAM INVESTMENT MGMT. CO.
 Address of Construction: 245 LOMMELOWAY ST ; SUITE 500

2009 International Building Code

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

Building Code & Year 2009 IBC Use Group Classification (s) B - BUSINESS
 Type of Construction III 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? YES Geotechnical/Soils report required? (See Section 1802.2) N/A

Structural Design Calculations

NA 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
<u>60 PSF</u>	<u>OFFICES</u>

Wind loads (1603.1.4, 1609)

NA Design option utilized (1609.1.1, 1609.6)
 Basic wind speed (1809.3)
 Building category and wind importance Factor, 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)

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

NA 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_f 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)

NA Flood Hazard area (1612.3)
NA Elevation of structure

Other loads

NA 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)