



Certificate of Design Application

From Designer: Jim Fortin, Becker Structural Eng.
 Date: OCT 1, 2014
 Job Name: SEASIDE, LOBBY/REHAB
 Address of Construction: 850 BAXTER BLVD.

2009 International Building Code

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

~~Building Code & Year _____ Use Group Classification (s) _____
 Type of Construction _____
 Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC _____
 Is the Structure mixed use? _____ If yes, separated or non separated or non separated (section 302.3) _____
 Supervisory alarm System? _____ 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
<u>REHABILITATION</u>	<u>60 PSF</u>
<u>OFFICE</u>	<u>50 PSF</u>
_____	_____
_____	_____

Wind loads (1603.1.4, 1609)

_____ Design option utilized (1609.1.1, 1609.6)
100 Basic wind speed (1809.3)
CAT. III; 1.15 Building category and wind importance factor, I_w (table 1604.5, 1609.5)
B Wind exposure category (1609.4)
± 0.18 Internal pressure coefficient (ASCE 7)
22 psf Component and cladding pressures (1609.1.1, 1609.6.2.2)
18 psf 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)
 _____ Seismic use group ("Category")
 _____ Spectral response coefficients, S_x & S_D (1615.1)
↓ Site class (1615.1.5)

N/A Live load reduction
N/A Roof live loads (1603.1.2, 1607.11)
46 PSF Roof snow loads (1603.7.3, 1608)
60 PSF Ground snow load, P_g (1608.2)
96 PSF If $P_g > 10$ psf, flat-roof snow load, P_f
1.0 If $P_g > 10$ psf, snow exposure factor, C_e
1.15 If $P_g > 10$ psf, snow load importance factor, I_s
1.1 Roof thermal factor, C_t (1608.4)
46 PSF Sloped roof snowload, P_s (1608.4)
N/A 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)