



Certificate of Design Application

From Designer: JOSEPH DEWANEY
 Date: 6/23/14
 Job Name: ADDITION TO FORM SYSTEMS
 Address of Construction: 200 RIVERSIDE IND. PARKWAY

2009 International Building Code

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

Building Code & Year 2009 Use Group Classification (s) F-1
 Type of Construction 2B
 Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IBC NO EXISTING SYST.
 Is the Structure mixed use? NO If yes, separated or non separated or non separated (section 302.3) NON
 Supervisory alarm System? NO 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>STORAGE</u>	<u>5" CAST CONG. SLAB</u>

Wind loads (1603.1.4, 1609)

_____ Design option utilized (1609.1.1, 1609.6)
100 Basic wind speed (1809.3)
1 Building category and wind importance Factor, I_w (table 1604.5, 1609.5)
B Wind exposure category (1609.4)
.18 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)

ASCE 7/05 Design option utilized (1614.1)
B Seismic use group ("Category")
per code Spectral response coefficients, S_D & S_{D1} (1615.1)
D Site class (1615.1.5)

_____ Live load reduction
20 Roof live loads (1603.1.2, 1607.11)
40 FLAT ROOF Roof snow loads (1603.7.3, 1608)
60 Ground snow load, P_g (1608.2)
 _____ 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
1.1 Roof thermal factor, C_t (1608.4)
 _____ Sloped roof snowload, P_s (1608.4)
"B" Seismic design category (1616.3)
SHEAR WALL Basic seismic force resisting system (1617.6.2)
0.4 Response modification coefficient, R and
 _____ deflection amplification factor C_d (1617.6.2)
EQUIV. LAT. FORCE 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)
67.95 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)