Certificate of Design Application

From Designer: MANUSZ WSZOLA, PE

Date: 12/17/14

Job Name: 131 JOHNSON ROAD

Address of Construction: 131 JOHNSON RD

2009 International Building Code

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

Building Code & Year IBC 2009 Use Group Classification (s) II

Type of Construction STEEL FRAMES / WOOD ROOF

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) 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
OFFICE	80 PSF
	(60 + 20 partition)

Wind loads (1603.1.4, 1609)

N/A Design option utilized (1609.1.1, 1609.6)

95 Basic wind speed (1809.3)

II Building category and wind importance Factor, I_r table 1604.5, 1609.5)

C Wind exposure category (1609.4)

+/-0.18 Internal pressure coefficient (ASCE 7)

N/A Component and cladding pressures (1609.1.1, 1609.6.2.2)

N/A Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

ELFP Design option utilized (1614.1)

C Seismic use group ("Category")

0.485/0.161 Spectral response coefficients, SDs & SD1 (1615.1)

E Site class (1615.1.5)

N/A Live load reduction

N/A Roof *live* loads (1603.1.2, 1607.11)

42 Roof snow loads (1603.7.3, 1608)

60 Ground snow load, P_g (1608.2)

N/A 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)

N/A Sloped roof snowload, P_s (1608.4)

C Seismic design category (1616.3)

BRACED FR. Basic seismic force resisting system (1617.6.2)

3.0 Response modification coefficient, R_I and deflection amplification factor C_d (1617.6.2)

ELFP Analysis procedure (1616.6, 1617.5)

N/A Design base shear (1617.4, 16175.5.1)

Flood loads (1803.1.6, 1612)

N/A Flood Hazard area (1612.3)

N/A Elevation of structure

Other loads

2000 lb Concentrated loads (1607.4)

20 psf Partition loads (1607.5)

N/A Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404