



Certificate of Design Application

From Designer: Mark Chaloupecky - Port City Architecture

Date: 9/22/14

Job Name: _____

Address of Construction: 219 Anderson St.

2009 International Building Code

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

Building Code & Year IBC 2009 Use Group Classification (s) Factory Industrial F-1

Type of Construction Type II B (existing bldg)

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC NO

Is the Structure mixed use? NO If yes, separated or non separated or non separated (section 302.3) _____

Supervisory alarm System? partial Geotechnical/Soils report required? (See Section 1802.2) NO

Structural Design Calculations

_____ Submitted for all structural members (106.1 - 106.11) NO Live load reduction

Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (7603.11, 1807)	<u>20</u>	Roof <i>live</i> loads (1603.1.2, 1607.11)
Floor Area Use	<u>34</u>	Roof snow loads (1603.7.3, 1608)
<u>INDUSTRIAL</u>	<u>50</u>	Ground snow load, P_g (1608.2)
Loads Shown	<u>34</u>	If $P_g > 10$ psf, flat-roof snow load P_f
<u>BALCONIES</u>	<u>1.0</u>	If $P_g > 10$ psf, snow exposure factor, C_e
	<u>1.0</u>	If $P_g > 10$ psf, snow load importance factor, I_s
	<u>1.0</u>	Roof thermal factor, C_t (1608.4)
	<u>-</u>	Sloped roof snowload, P_s (1608.4)

Wind loads (1603.1.4, 1609)

<u>ANALYTICAL</u> Design option utilized (1609.1.1, 1609.6)	<u>B</u> Seismic design category (1616.3)
<u>100</u> Basic wind speed (1809.3)	<u>MASONRY</u> Basic seismic force resisting system (1617.6.2)
<u>ENCLOSED 1.0</u> Building category and wind importance Factor, I_w table 1604.5, 1609.5)	<u>R-3</u> Response modification coefficient, R_f and deflection amplification factor C_d (1617.6.2)
<u>B</u> Wind exposure category (1609.4)	<u>SIMPLIFIED</u> Analysis procedure (1616.6, 1617.5)
<u>0.55</u> Internal pressure coefficient (ASCE 7)	_____ Design base shear (1617.4, 1617.5.1)
<u>50</u> Component and cladding pressures (1609.1.1, 1609.6.2.2)	
<u>22</u> Main force wind pressures (7603.1.1, 1609.6.2.1)	

Earth design data (1603.1.5, 1614-1623)

ELF Design option utilized (1614.1)

B Seismic use group ("Category")

0.324, 0.123 Spectral response coefficients, S_D s & S_{D1} (1615.1)

D Site class (1615.1.5)

Flood loads (1803.1.6, 1612)

- Flood Hazard area (1612.3)

50' ± 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)