



Certificate of Design Application

RYAN SENATORE ARCHITECTURE

From Designer: _____
 Date: 7/26/16
 Job Name: RETAIL CONTAINERS
 Address of Construction: 93 WASHINGTON AVENUE

2009 International Building Code

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

Building Code & Year 2009 Use Group Classification (s) M - MERCANTILE
 Type of Construction 5B
 Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IBC NO
 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

— Submitted for all structural members (106.1 – 106.11)

Design Loads on Construction Documents (1603)

Floor Area Use	Loads Shown
<u>RETAIL 1ST</u>	<u>100 PSF</u>

Wind loads (1603.1.4, 1609)

ANALYTICAL Design option utilized (1609.1.1, 1609.6)
100 MPH Basic wind speed (1809.3)
II, 1.0 Building category and wind importance Factor, I_w (table 1604.5, 1609.5)
B Wind exposure category (1609.4)
.55 Internal pressure coefficient (ASCE 7)
50 Component and cladding pressures (1609.1.1, 1609.6.2.2)
23 Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

EQUIV. LATERAL FORCE 1 Design option utilized (1614.1)
Seismic use group ("Category")
.325, .123 Spectral response coefficients, S_x & S_D (1615.1)
D Site class (1615.1.5)

— Live load reduction
— Roof line loads (1603.1.2, 1607.11)
42 PSF Roof snow loads (1603.7.3, 1608)
60 PSF Ground snow load, P_g (1608.2)
42 PSF If $P_g > 10$ psf, flat-roof snow load P_f
1.0 If $P_g > 10$ psf, snow exposure factor, C_e
1.0 If $P_g > 10$ psf, snow load importance factor, I_s
1.0 Roof thermal factor, C_t (1608.4)
— Sloped roof snowload, P_s (1608.4)
B Seismic design category (1616.3)
STL-SHEAR WALL Basic seismic force resisting system (1617.6.2)
7, 6 Response modification coefficient, R and deflection amplification factor, C_d (1617.6.2) analysis procedure (1616.6, 1617.5)
EQUIV. LATERAL FORCE .9K Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

— Flood Hazard area (1612.3)
— 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)