



# Certificate of Design Application

From Designer:

Barry Ludlow

Date:

7/24/15

Job Name:

FAT FACE

Address of Construction:

34 Exchange St.

## 2009 International Building Code

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

Building Code & Year 2009 IRC Use Group Classification (s) Mercantile

Type of Construction 3

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? \_\_\_\_\_ If yes, separated or non separated or non separated (section 302.3) \_\_\_\_\_

Supervisory alarm System? \_\_\_\_\_ Geotechnical/Soils report required? (See Section 1802.2) n/a

### Structural Design Calculations

Yes \_\_\_\_\_ 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 |
|--------------------|-------------|
| FIRST FLOOR RETAIL | 100 psf     |
| _____              | _____       |
| _____              | _____       |
| _____              | _____       |
| _____              | _____       |
| _____              | _____       |

### Wind loads (1603.1.4, 1609)

- NA \_\_\_\_\_ Design option utilized (1609.1.1, 1609.6)
- NA \_\_\_\_\_ Basic wind speed (1809.3)
- NA \_\_\_\_\_ Building category and wind importance Factor,  $I_w$  (table 1604.5, 1609.5)
- NA \_\_\_\_\_ Wind exposure category (1609.4)
- NA \_\_\_\_\_ Internal pressure coefficient (ASCE 7)
- NA \_\_\_\_\_ Component and cladding pressures (1609.1.1, 1609.6.2.2)
- NA \_\_\_\_\_ Main force wind pressures (7603.1.1, 1609.6.2.1)

### Earth design data (1603.1.5, 1614-1623)

- NA \_\_\_\_\_ Design option utilized (1614.1)
- II \_\_\_\_\_ Seismic use group ("Category")
- 0.323, .0123 \_\_\_\_\_ Spectral response coefficients,  $S_D$  &  $S_{D1}$  (1615.1)
- D \_\_\_\_\_ Site class (1615.1.5)

- NA \_\_\_\_\_ Live load reduction
- NA \_\_\_\_\_ Roof live loads (1603.1.2, 1607.11)
- NA \_\_\_\_\_ Roof snow loads (1603.7.3, 1608)
- NA \_\_\_\_\_ Ground snow load,  $P_g$  (1608.2)
- NA \_\_\_\_\_ If  $P_g > 10$  psf, flat-roof snow load  $P_f$
- NA \_\_\_\_\_ If  $P_g > 10$  psf, snow exposure factor,  $C_e$
- NA \_\_\_\_\_ If  $P_g > 10$  psf, snow load importance factor,  $I_s$
- NA \_\_\_\_\_ Roof thermal factor,  $C_t$  (1608.4)
- NA \_\_\_\_\_ Sloped roof snowload,  $P_s$  (1608.4)
- B \_\_\_\_\_ Seismic design category (1616.3)
- URM \_\_\_\_\_ Basic seismic force resisting system (1617.6.2)
- NA \_\_\_\_\_ Response modification coefficient,  $R_v$  and deflection amplification factor  $C_d$  (1617.6.2)
- NA \_\_\_\_\_ Analysis procedure (1616.6, 1617.5)
- NA \_\_\_\_\_ Design base shear (1617.4, 1617.5.1)

### Flood loads (1803.1.6, 1612)

- NA \_\_\_\_\_ Flood Hazard area (1612.3)
- NA \_\_\_\_\_ Elevation of structure

### Other loads

- NA \_\_\_\_\_ Concentrated loads (1607.4)
- NA \_\_\_\_\_ Partition loads (1607.5)
- NA \_\_\_\_\_ Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)