



Certificate of Design Application

Designer: Eric Grondahl
 Date: 12-15-15
 Job Name: 522 Washington ave Addition
 Address of Construction: 522 Washington Ave

2009 International Building Code

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

Building Code & Year IBC 2009 Use Group Classification (s) Business Professional
 Type of Construction Type V

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) _____
 Fire 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
OFFICE	50
CORRIDORS	80
_____	_____
_____	_____

Wind loads (1603.1.4, 1609)

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

Earth design data (1603.1.5, 1614-1623)

- A _____ Design option utilized (1614.1)
- A _____ Seismic use group ("Category")
- A _____ Spectral response coefficients, S_D s & SD_1 (1615.1)
- A _____ Site class (1615.1.5)

- NA _____ Live load reduction
- NA _____ Roof *live* loads (1603.1.2, 1607.11)
- 39 _____ Roof snow loads (1603.7.3, 1608)
- 50 _____ Ground snow load, P_g (1608.2)
- 39 _____ 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)
- 1.0 _____ Sloped roof snowload, P_s (1608.4)
- NA _____ Seismic design category (1616.3)
- NA _____ Basic seismic force resisting system (1617.6.2)
- NA _____ Response modification coefficient, R_d 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)