



Certificate of Design Application

From Designer: Al Hodson & Tracie J. Reed
 Date: 08.14.15
 Job Name: RISING TIDE TASTING ROOM
 Address of Construction: 103 FOX STREET, PORTLAND, ME 04103

2009 International Building Code

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

Building Code & Year 2009 IBC/ASCE 7-05 Use Group Classification (s) 160,000
 Type of Construction IIIB
 Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC NFPA 13
 Is the Structure mixed use? YES If yes, separated or non separated or non separated (section 302.3) NON-SEPERATED
 Supervisory alarm System? _____ Geotechnical/Soils report required? (See Section 1802.2) _____

Structural Design Calculations

SEPERATE 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
Store room	125 PSF

Wind loads (1603.1.4, 1609)

METHOD 2- 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)
C Wind exposure category (1609.4)
+/- 0.18 Internal pressure coefficient (ASCE 7)
+22.7, -35.8 Component and cladding pressures (1609.1.1, 1609.6.2.2)
+20 PSF Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

BEARING WALL Design option utilized (1614.1)
II Seismic use group ("Category")
.324g, .123g Spectral response coefficients, S_D & S_{D1} (1615.1)
D Site class (1615.1.5)

N/A Live load reduction
 _____ Roof live loads (1603.1.2, 1607.11)
46.2 Roof snow loads (1603.7.3, 1608)
60 psf Ground snow load, P_g (1608.2)
46.2 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
1.1, 1.2 Roof thermal factor, C_t (1608.4)
46.2 (Cs=0.95) Sloped roof snowload, P_s (1608.4)

B Seismic design category (1616.3)
SHEAR WALLS Basic seismic force resisting system (1617.6.2)
2,2 Response modification coefficient, R , and deflection amplification factor, C_d (1617.6.2)

EQUIVALENT LATERAL FORCE Analysis procedure (1616.6, 1617.5)
29.5 KIPS Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

N/A Flood Hazard area (1612.3)
N/A 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)