



Certificate of Design Application

From Designer:

Janet Hansen

Date:

4-5-16

Job Name:

B.H. Milliken fit-up @ 235 Presumpscot St.

Address of Construction:

235 Presumpscot St, Portland, ME 04103

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

Type of Construction EXIST: IIB, NEW: VA

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IBC YES

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

Supervisory alarm System? _____ 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
Mezzanine - Light Storage	125 psf
_____	_____
_____	_____
_____	_____

Wind loads (1603.1.4, 1609)

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

Earth design data (1603.1.5, 1614-1623)

N/A	Design option utilized (1614.1)
_____	Seismic use group ("Category")
_____	Spectral response coefficients, S_D s & S_{D1} (1615.1)
_____	Site class (1615.1.5)

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

Flood loads (1803.1.6, 1612)

N/A	Flood Hazard area (1612.3)
_____	Elevation of structure

Other loads

N/A	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)