



Certificate of Design Application

From Designer: Don Dyer, RA
 Date: 9/15/2014
 Job Name: 45 York Street
 Address of Construction: 45 York Street, Portland, ME 04101

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 Group B

Type of Construction Type IV

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC Yes

Is the Structure mixed use? No If yes, separated or non separated or non separated (section 302.3) n/a

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

Structural Design Calculations

n/a 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
<u>n/a</u>	<u>n/a</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

Wind loads (1603.1.4, 1609)

n/a Design option utilized (1609.1.1, 1609.6)
n/a Basic wind speed (1809.3)
n/a Building category and wind importance Factor, I_w table 1604.5, 1609.5)
n/a Wind exposure category (1609.4)
n/a Internal pressure coefficient (ASCE 7)
n/a Component and cladding pressures (1609.1.1, 1609.6.2.2)
n/a 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)
n/a Seismic use group ("Category")
n/a Spectral response coefficients, SDs & SD1 (1615.1)
n/a Site class (1615.1.5)

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

n/a Concentrated loads (1607.4)
n/a Partition loads (1607.5)
n/a Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)