



Certificate of Design Application

From Designer: FORESIDE ARCHITECTS, MARK BURNES
 Date: SEPT. 18, 2014
 Job Name: SEASIDE REHAB + HEALTHCARE / LOBBY + REHAB
 Address of Construction: 850 BAXTER BLVD PORTLAND, ME

2009 International Building Code

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

Building Code & Year 2009 Use Group Classification (s) I-2

Type of Construction EXIST V.B. NEW WORK 2.B.

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) NO

Structural Design Calculations SEE APP. FROM STRUCT ENG Live load reduction

Submitted for all structural members (1606.1 - 1606.11)

Design Loads on Construction Documents (1603)

Floor Area Use	Loads Shown

Wind loads (1603.1.4, 1609)

- Design option utilized (1609.1.1, 1609.6)
- Basic wind speed (1609.5)
- Building category and wind importance factor, I_w (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 (1603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

- Design option utilized (1614.1)
- Seismic use group ("Category")
- Spectral response coefficients, S_D & S_1 (1615.1)
- Site class (1615.1.5)

- 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, s_f
- If $P_g > 10$ psf, snow exposure factor, e_s
- If $P_g > 10$ psf, snow load importance factor, I_s
- Roof thermal factor, t_r (1608.4)
- Shaped roof snowload, p_s (1608.4)
- Seismic design category (1616.3)
- Basic seismic force resisting system (1617.6.2)
- Response modification coefficient, R_d 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)

- Flood Hazard area (1612.3)
- 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, 2004)