



# Certificate of Design Application

From Designer: Loranger Door & Window Co., Inc.  
 Date: 4/16/13--repair date T.B.D.  
 Job Name: Mercy 5th Floor Window Replacement  
 Address of Construction: 144 State Street, Portland ME 04101

## 2009 International Building Code

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

Building Code & Year \_\_\_\_\_ Use Group Classification (s) \_\_\_\_\_

Type of Construction window replacement

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

Is the Structure mixed use? n/a If yes, separated or non separated or non separated (section 302.3) n/a

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

### 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
<u>n/a</u>	<u>n/a</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,  $S_D$  &  $S_1$  (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)