



Certificate of Design Application

From Designer: Aaron Jones, Structural Integrity Consulting Engineers, Inc.

Date: 12/15/14

Job Name: Northeast Bank- Portland Branch - Tenant Fit up and Addition

Address of Construction: 27 Pearl Street, Portland

2009 International Building Code

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

Building Code & Year IBC Use Group Classification (s) Business Use

Type of Construction 3B

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

--- 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

Wind loads (1603.1.4, 1609)

ANALYTICAL Design option utilized (1609.1.1, 1609.6)

100 MPH Basic wind speed (1809.3)

Enclosed Building category and wind importance Factor, I_w (table 1604.5, 1609.5)

B Wind exposure category (1609.4)

0.18 Internal pressure coefficient (ASCE 7)

19 PSF Component and cladding pressures (1609.1.1, 1609.6.2.2)

14 PSF Main force wind pressures (7603.1.1, 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_I (1615.1)

--- Site class (1615.1.5)

NONE Live load reduction

--- Roof *live* loads (1603.1.2, 1607.11)

42 PSF Roof snow loads (1603.7.3, 1608)

60 PSF Ground snow load, P_g (1608.2)

38 PSF If $P_g > 10$ psf, flat-roof snow load P_f

0.9 If $P_g > 10$ psf, snow exposure factor, C_e

1.0 If $P_g > 10$ psf, snow load importance factor, I_s

1.0 Roof thermal factor, C_t (1608.4)

--- Sloped roof snowload, P_s (1608.4)

B Seismic design category (1616.3)

SHEAR WALL 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)

--- 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, 2404)



Certificate of Design

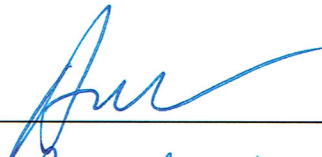
Date: 12/15/14

From: Aaron Jones, Structural Integrity, Inc.

These plans and / or specifications covering construction work on:

North east Bank tenant Fitout and Addition
@ 27 Pearl St, Portland, ME

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the **2009 International Building Code** and local amendments.

Signature: 

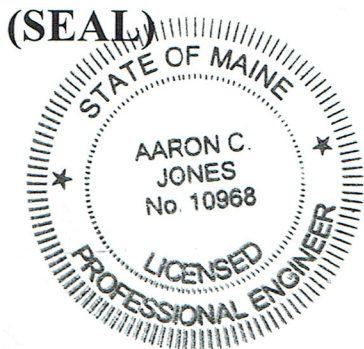
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