# Certificate of Design Application

Inspections Division
Date: 08/26/16

From Designer: Josef Chalat, Architect

Date: 2016-July 27

Job Name: WinXnet Office Modifications

Address of Construction: 68 Marginal Way, Portland, Maine 04101

## 2009 International Building Code

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

Building Code & Year 2009 Use Group Classification (s) Business, B

Type of Construction Existing

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IBC see original building permit

Is the Structure mixed use? NA If yes, separated or non separated or non separated (section 302.3) see original building permit

Supervisory alarm System? existing Geotechnical/Soils report required? (See Section 1802.2) NA

**Structural Design Calculations**

NA 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 |
|---|---|
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**Wind loads (1603.1.4, 1609)** NA

_____ Design option utilized (1609.1.1, 1609.6)

_____ Basic wind speed (1809.3)

_____ 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 (7603.1.1, 1609.6.2.1)

**Earth design data (1603.1.5, 1614-1623)** NA

_____ Design option utilized (1614.1)

_____ Seismic use group ("Category")

_____ Spectral response coefficients, $S_{Ds}$ & $S_{D1}$ (1615.1)

_____ Site class (1615.1.5)

_____ 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, 16175.5.1)

**Flood loads (1803.1.6, 1612)** NA

_____ Flood Hazard area (1612.3)

_____ Elevation of structure

**Other loads** NA

_____ 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