Certificate of Design Application

From Designer: Patric Santerre, Maine Licensed Architect

Date: November 18, 2015

Job Name: Float Spa fitout

Address of Construction: 500 Washington Avenue, Portland, Maine 04103

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

Type of Construction III 200 (Interior Wd/Mtl Stud w/ GWB)

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? Yes If yes, separated or non separated or non separated (section 302.3) Separated

Supervisory alarm System? Yes 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
NA	

Wind loads (1603.1.4, 1609)

NA Design option utilized (1609.1.1, 1609.6)

NA Basic wind speed (1809.3)

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

NA Wind exposure category (1609.4)

NA Internal pressure coefficient (ASCE 7)

NA Component and cladding pressures (1609.1.1, 1609.6.2.2)

NA 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)

NA Seismic use group ("Category")

NA Spectral response coefficients, SDs & SD1 (1615.1)

NA Site class (1615.1.5)

NA Live load reduction

NA Roof *live* loads (1603.1.2, 1607.11)

NA Roof snow loads (1603.7.3, 1608)

NA Ground snow load, P_g (1608.2)

NA If P_g > 10 psf, flat-roof snow load P_f

NA If P_g > 10 psf, snow exposure factor, C_e

NA If P_g > 10 psf, snow load importance factor, I_s

NA Roof thermal factor, C_t (1608.4)

NA Sloped roof snowload, P_s (1608.4)

NA Seismic design category (1616.3)

NA Basic seismic force resisting system (1617.6.2)

NA Response modification coefficient, R_I and deflection amplification factor C_d (1617.6.2)

NA Analysis procedure (1616.6, 1617.5)

NA Design base shear (1617.4, 16175.5.1)

Flood loads (1803.1.6, 1612)

NA Flood Hazard area (1612.3)

NA Elevation of structure

Other loads

NA Concentrated loads (1607.4)

NA Partition loads (1607.5)

NA Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404