



Certificate of Design Application

From Designer:

BUELL HEMINWAY, R.A. STRUCTURAL DESIGN CONSULTING
JULY 8, 2015 DAVID TETREULT, P.E.

Date:

Job Name:

RESTAURANT FOR LAZZARI LLC

Address of Construction:

618 CONGRESS ST., PORTLAND, ME

2009 International Building Code

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

Building Code & Year IBC 2009 Use Group Classification (s) ASSEMBLY, BUSINESS

Type of Construction TYPE IV

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IBC NO

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

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>RESTAURANT</u>	<u>100 PSF</u>
<u>STAIRS</u>	<u>100 PSF</u>

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, S_D & S_{D1} (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 , 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)

25 PSF Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)

SUPERIMPOSED STREET FLOOR DEAD LOAD