



# Certificate of Design Application

ASSOCIATED DESIGN PARTNERS, INC

From Designer:

Date:

Job Name:

Address of Construction:

12-28-15

MOONGATE PROPERTIES LLC - NEW BUILDING

1039 RIVERSIDE ST, UNIT #9, PORTLAND MAINE

## 2009 International Building Code

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

Building Code & Year 2009 IBC Use Group Classification (s) F-1

Type of Construction VB

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IBC N

Is the Structure mixed use? N If yes, separated or non separated or non separated (section 302.3) \_\_\_\_\_

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

### 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
slab on grade	125 psf light warehouse

### Wind loads (1603.1.4, 1609)

ANALYTICAL Design option utilized (1609.1.1, 1609.6)

100 Basic wind speed (1809.3)

1.0 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)

PER ASCE BASED ON EWA Component and cladding pressures (1609.1.1, 1609.6.2.2)

See Package Calc Main force wind pressures (7603.1.1, 1609.6.2.1)

### Earth design data (1603.1.5, 1614-1623)

ASCE 12.8.1 Design option utilized (1614.1)

I Seismic use group ("Category")

0.486 / .18 Spectral response coefficients,  $S_D$  &  $S_{D1}$  (1615.1)

E Site class (1615.1.5)

NO Live load reduction

20 Roof *live* loads (1603.1.2, 1607.11)

42+UNBAL Roof snow loads (1603.7.3, 1608)

60 Ground snow load,  $P_g$  (1608.2)

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

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

1 If  $P_g > 10$  psf, snow load importance factor,  $C_{IF}$

1.0 Roof thermal factor,  $C_T$  (1608.4)

NA Sloped roof snowload,  $P_S$  (1608.4)

C Seismic design category (1616.3)

OSCBF, OSMF Basic seismic force resisting system (1617.6.2)

(3/3) Response modification coefficient,  $R$ , and deflection amplification factor  $C_d$  (1617.6.2)

EQUIV LAT FORCE Analysis procedure (1616.6, 1617.5)

39.87K Design base shear (1617.4, 1617.5.1)

### 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)

4-400# unit heaters Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)