Certificate of Design Application

From Designer: ASSOCIATED DESIGN PARTNERS, INC

Date: 2-27-17

Job Name: PURESTAT EXTRUSIONS LLC

Address of Construction: 75 WALCH DR, 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, BUSINESS

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? Y If yes, separated or non separated or non separated (section 302.3) NON-SEPARATED

Supervisory alarm System? Y 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
mezzanine	125 psf light warehouse

Wind loads (1603.1.4, 1609)

n/a interior 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)

ASCE 12.8.1 Design option utilized (1614.1)

I Seismic use group ("Category")

0.486 / .18 Spectral response coefficients, SDs & SD1 (1615.1)

E Site class (1615.1.5)

NO Live load reduction

n/a interior Roof *live* loads (1603.1.2, 1607.11)

n/a interior 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, G

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

_____ Roof thermal factor, G (1608.4)

_____ Sloped roof snowload, P_s (1608.4)

C Seismic design category (1616.3)

LFWSW Basic seismic force resisting system (1617.6.2)

(3/3) Response modification coefficient, R_I 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, 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)

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