

## Certificate of Design Application

ASSOCIATED DESIGN PARTNERS, INC From Designer: 6-15-15 Date: ALLAGASH BOILER ROOM ADDITION Job Name: 50 INDUSTRIAL WAY, PORTLAND MAINE Address of Construction:

2009 IBC

## 2009 International Building Code

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

Industrial

Building Code & Year _	Use Group Classifica	tion (s) _	Industrial	
Type of Construction	TYPE II NON COMBUSTIBLE UNPROTEC	CTED.	***************************************	
Will the Structure have a F	Fire suppression system in Accordance w	ith Section	903.3.1 of the <sup>20</sup>	009 IBC Y
Is the Structure mixed use	? Y If yes, separated or non	separated	or non separated	(section 302.3) Separated
Supervisory alarm Systems	YGeotechnical/Soils repo	ort require	d? (See Section 18	02.2) <u>Y</u>
Structural Design Calculations			NO	Live load reduction
Submitted for all structural members (106.1 – 106.11)			20	Roof <i>live</i> loads (1603.1.2, 1607.11)
			42+drift	Roof snow loads (1603.7.3, 1608)
Design Loads on Construction Documents (1603) Uniformly distributed floor live loads (7603.11, 1807)			60	Ground snow load, Pg (1608.2)
Floor Area Use Loads Shown			42	If $Pg > 10$ psf, flat-roof snow load $p_f$ If $Pg > 10$ psf, snow exposure factor, $C_g$
			1	
			1	If $P_g > 10$ psf, snow load importance factor, $I_k$
			4.0	Roof thermal factor, $G$ (1608.4)
			NA	Sloped roof snowload, <sub>Ps</sub> (1608.4)
Wind loads (1603.1.4, 1609)			В	Seismic design category (1616.3)
ANALYTICAL Design option utilized (1609.1.1, 1609.6)			OMRF, LGFSB	Basic seismic force resisting system (1617.6.2)
Basic wind speed (1809.3)			(3.5/4)	Response modification coefficient, R1 and
1.0 Building category and wind importance Factor, but table 1604.5, 1609.5)				deflection amplification factor (1617.6.2)
Wind exposure category (1609.4)			ASCE 12.8.1	Analysis procedure (1616.6, 1617.5)
			RAL DESIGN	Design base shear (1617.4, 16175.5.1)
PER ASCE BASED On EWAnt and cladding pressures (1609.1.1, 1609.6.2.2)  15PSF Main force wind pressures (7603.1.1, 1609.6.2.1)		CON	Flood loads (18)	ds (1803.1.6, 1612)
Earth design data (1603.1.5, 1614-1623)			NA	Flood Hazard area (1612.3)
ASCE 12.8.1 Design option utilized (1614.1)			NA	Elevation of structure
z eo.ga op	Seismic use group ("Category")		Other loads	
0.045 / 405			NA	Concentrated loads (1607.4)
D Site class (			NA	Partition loads (1607.5)
1			NA	Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404