

Certificate of Design Application

From Designer:	SMRT		
Date:	January 8, 2014		
Job Name:	Immucell Cleanroom		
Address of Construction:	56 Evergreen Drive, Portland, ME		

2009 International Building Code

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

Building Code	& Year 2009 IBC	Use Group Classification	_{n (s)} F1 Industrial	
Type of Const	Type OD		()	
* *		n system in Accordance with S	Section 903.3.1 of the 9	complying with NFPA 13
Is the Structure	mixed use? yes	If wes separated or non sep	parated or non separated	d (section 302.3) separated
	m System? yes	_Geotechnical/Soils report r		
Supervisory atai	in bystein:	Ocotecimical/ boils report is	equired: (See Seedon 1	
Structural Design Calculations no Submitted for all structural members (106.1 – 106.11)			<u>n/a</u>	_Live load reduction
			n/a	Roof <i>live</i> loads (1603.1.2, 1607.11)
			n/a	Roof snow loads (1603.7.3, 1608)
Design Loads on Construction Documents (1603) Uniformly distributed floor live loads (7603.11, 1807) Floor Area Use Loads Shown				Ground snow load, Pg (1608.2)
				If $Pg > 10$ psf, flat-roof snow load pf
mezz. grating area 60 psf				If $Pg > 10$ psf, snow exposure factor, $_{C}$
	<u> </u>	että tättä talkita onen maaka muun onen	- 	If $Pg > 10$ psf, snow load importance factor, I_c
				Roof thermal factor, $_{G}$ (1608.4)
***************************************				Sloped roof snowload, _{Pr} (1608.4)
Wind loads (1603.1.4, 1609)			<u>B</u>	Seismic design category (1616.3)
n/a	_Design option utilized (1609.1.1, 1609.6)		Stl. Brace	Basic seismic force resisting system (1617.6.2)
Basic wind speed (1809.3)Building category and wind importance Factor, j, table 1604.5, 1609.5)			R-3, Cd-3	Response modification coefficient, $_{R_{I}}$ and
			ELED	deflection amplification factor _{Cl} (1617.6.2)
Wind exposure category (1609.4)Internal pressure coefficient (ASCE 7)		ELFP	Analysis procedure (1616.6, 1617.5)	
		1.0k	Design base shear (1617.4, 16175.5.1)	
	Component and cladding pressures (1609.1.1, 1609.6.2.2)		Flood loads (1	803.1.6, 1612)
Main force wind pressures (7603.1.1, 1609.6.2.1)			n/a	Flood Hazard area (1612.3)
-	ata (1603.1.5, 1614-1623)			Elevation of structure
sp.footings cat. II	_Design option utilized (1614.1) _Seismic use group ("Category") _Spectral response coefficients, \$Ds & \$D1 (1615.1) _Site class (1615.1.5)		Other loads	
0.328/0.124			n/a	Concentrated loads (1607.4)
D.320/0.124			n/a	Partition loads (1607.5)
			n/a	Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404