

Date:

Certificate of Design Application

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Emerson Street

Job Name:	Emerson Street		
Address of Construct	ion: 23 Emerson Street, Portla	and	
	2009 International Construction project was designed to the		eria listed below:
Building Code & Year	1999 IBC/ASCE 7-05 Use Group Classificatio	on (s) <u>R-2</u>	and a second a second and a second a second and a second a second and a second and a second and
Type of Construction	VB		
Will the Structure have a I	Fire suppression system in Accordance with	Section 903.3.1 of the	2009 IRC Yes
Is the Structure mixed use	? No If yes, separated or non sep	parated or non separat	ed (section 302.3) ^{na}
Supervisory alarm System	YesGeotechnical/Soils report i		
Structural Design Calcu yes (separate) Submitted		n/a	Live load reduction
Submitted for all structural members (106.1 – 106.11)		46.2 psf	Roof <i>live</i> loads (1603.1.2, 1607.11)
Design Loads on Construction Documents (1603)		60 psf	Roof snow loads (1603.7.3, 1608)
Uniformly distributed floor li Floor Area Use	ive loads (7603.11, 1807) Loads Shown	46.2 psf	Ground snow load, Pg (1608.2)
Individual Unit Floors	40 psf	1.0	If $Pg > 10$ psf, flat-roof snow load Pf
Decks and Stairs	100 psf	1.0	If $Pg > 10$ psf, snow exposure factor, Q
		1.1, 1.2	If Pg > 10 psf, snow load importance factor, J
		46.2 (Cs = 0.9	Roof thermal factor, _G (1608.4) Sloped roof snowload, _{P3} (1608.4)
Wind loads (1603.1.4, 1609)		В	
Method 2 - Analytical Design option utilized (1609.1.1, 1609.6)		Shear Walls	Seismic design category (1616.3)Basic seismic force resisting system (1617.6.2)
Basic wind speed (1809.3) II, 1.0 Building category and wind importance Factor, Ip table 1604.5, 1609.5) Wind exposure category (1609.4) Internal pressure coefficient (ASCE 7)		2, 2	2, 2 Response modification coefficient, Ry and
		deflection amplification factor $_{G}$ (1617.6.2)	
		29.5kips	Equivalent Lateral Force Analysis procedure (1616.6, 1617.5)
+22.7, -35.8 Component a	and cladding pressures (1609.1.1, 1609.6.2.2)		Design base shear (1617.4, 16175.5.1)
+20 psf Main force wind pressures (7603.1.1, 1609.6.2.1)		Flood loads (1803.1.6, 1612)	
Earth design data (1603.1.5, 1614-1623) Bearing Wall Design option utilized (1614.1)		n/a n/a	Flood Hazard area (1612.3)
			Elevation of structure
Seismic use g	group ("Category")	Other loads	
.324g, .123g Spectral resp	onse coefficients, SDs & SD1 (1615.1)		Concentrated loads (1607.4)
Site class (16)	15.1.5)		Partition loads (1607.5)
			Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404