

Certificate of Design Application

Ryan Senatore Architecture

Date:		11/3/15			
Job Name: Address of Construction:		667 Congress Street, Portland, ME 04102			
Type of Construction	_{on} 1B (N	on-Combustible)			
Will the Structure hav	e a Fire sur	pression system in Accord	ance with Section	1 903.3.1 of the	2009 IRC Yes
Is the Structure mixed					ed (section 302.3) Separated
Supervisory alarm Sys	tem? Yes	Geotechnical/So		=	
Structural Design Ca			us report require	as applicable	,
			20psf LR	Live load reduction	
Submitted for all structural members (106.1 – 106.11			.11)	42 flat + drift	Roof live loads (1603.1.2, 1607.11)
Design Loads on Construction Documents (1603) Uniformly distributed floor live loads (7603.11, 1807)				60Ground snow load, Pg (1608.2)	
Floor Area Usc I Residential & Corridors Serving 40 psf		Loads Shown		42	If $P_{\mathcal{G}} > 10$ psf, flat-roof snow load p_f
Public & Corridors Serv	ing 100 p	sf		1	If $Pg > 10$ psf, snow exposure factor, $_G$
1st Flr Retail	125 p	sf		1	If Pg > 10 psf, snow load importance factor, k
				1.0	Roof thermal factor, $_{G}$ (1608.4)
					Sloped roof snowload, p;(1608.4)
Wind loads (1603.1.4, 1609)				В	Seismic design category (1616.3)
Analytical Design option utilized (1609.1.1, 1609.6) 100 mph Basic wind speed (1809.3)				<u>H</u>	Basic seismic force resisting system (1617.6.2)
Cot II d O	Cot II 4 0			R=3, Cd=3	Response modification coefficient, Rt and
Dandin	g category an	d wind importance Factor, h table 1604.5, 1609.5)			deflection amplification factor _{Cd} (1617.6.2)
Wind exposure category (1609.4) 0.18				Equiv. Lateral Ford	Analysis procedure (1616.6, 1617.5)
25not / 60not				235k	Design base shear (1617.4, 16175.5.1)
Component and cladding pressures (1609.1.1, 1609.6.2.2) 14.3-21: 12.9psf 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)				None	_Flood Hazard area (1612.3)
Equiv. Lateral Force Design option utilized (1614.1)				118	Elevation of structure
II/1.0 Seismic use group ("Category")				Other loads	
.210/.051 Spectral response coefficients, \$\infty\$ & \$\infty\$ (1615.1)				see plans	Concentrated loads (1607.4)
D	s (1615.1.5)	, - ()		15psf	Partition loads (1607.5)
	•			see plans	_Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404