

Certificate of Design Application

From Designer:	Dan Green Engineering		4	
Date:	6/10/16			
Job Name:	Name: Portland Retirement Residence			
Address of Construction	802 Ocean Avenue, Portland, ME 041	802 Ocean Avenue, Portland, ME 04103		
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C	2009 International onstruction project was designed to the		eria listed below:	
Building Code & Year <u>200</u>	9 IBC Use Group Classificatio	on (s) U		
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Will the Structure have a Fire	e suppression system in Accordance with	Section 903.3.1 of the	2009 IRC Yes	
Is the Structure mixed use? <u>r</u>	If yes, separated or non sep	parated or non separat	ed (section 302.3) Non	
	Geotechnical/Soils report 1		26.0	
		0		
Structural Design Calculations YesSubmitted for all structural members (106.1 – 106.11)		X-22	Live load reduction	
		20 psf	Roof live loads (1603.1.2, 1607.11)	
Design Loads on Construction Documents (1603) Uniformly distributed floor live loads (7603.11, 1807)		40 psf	Roof snow loads (1603.7.3, 1608)	
		50 psf	Ground snow load, Pg (1608.2)	
Floor Area Use	Loads Shown	38.5 psf	If $Pg > 10$ psf, flat-roof snow load Pf	
Live Load 1	00 psf	1.0	If $Pg > 10$ psf, snow exposure factor, C_{ℓ}	
		1.0	If Pg > 10 psf, snow load importance factor, Ic	
		1.1	Roof thermal factor, $_G$ (1608.4)	
		40 psf	Sloped roof snowload, p; (1608.4)	
Wind loads (1603.1.4, 1609)		В	Seismic design category (1616.3)	
MWFRS-Method 1 Design option utilized (1609.1.1, 1609.6)		Wood SW's	Basic seismic force resisting system (1617.6.2)	
100 MPH Basic wind spe		6.5	Response modification coefficient, R _I and	
1.0 Building catego	ory and wind importance Factor, h		deflection amplification factor _{Cl} (1617.6.2)	
BWind exposure	table 1604.5, 1609.5) e category (1609.4)		Analysis procedure (1616.6, 1617.5)	
	coefficient (ASCE 7)	.039xW	Design base shear (1617.4, 1617.5.1)	
20.2 psf/21.8 psf Component and cladding pressures (1609.1.1, 1609.6.2.2)		Flood loads (1803.1.6, 1612)		
Main force wind pressures (7603.1.1, 1609.6.2.1)		-	, ,	
Earth design data (1603.1.5, 1614-1623)		-	Flood Hazard area (1612.3) Elevation of structure	
ogwiedent lateral force procedure Design option utilized (1614.1)		Other loads	Elevation of structure	
252/027	oup ("Category")	- Other loads		
•	se coefficients, SDs & SDI (1615.1)	<u>-</u>	Concentrated loads (1607.4)	
Site class (1615.	1.5)	<u>=</u>	Partition loads (1607.5)	
			Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404	