

Certificate of Design Application

From Designer:	Josef Chalat	
Date:	January 27, 2016	
Job Name:	RM Davis Interior Renovation and Communicating Stair	
Address of Construction:	24 City Center, Portland, Maine 04101	
	2000 7	
Con	2009 International struction project was designed to	al Building Code the building code criteria listed below:
Building Code & Year IBC 20	09 Use Group Classificati	on (s) IBC Business Group B, Section 305
Type of Construction Existing	ng Building, Type IIIB Assumed, but r	not verified
Will the Structure have a Fire su	ppression system in Accordance with	n Section 903.3.1 of the 2009 IRC No
Is the Structure mixed use? No		eparated or non separated (section 302.3)
Supervisory alarm System? Yes	· -	required? (See Section 1802.2) No
oupervisory atariff by steriff:	Geoteennea/, oons report	required: (See Seedon 1802.2)
Structural Design Calculations		Live load reduction
Design Loads on Construction Documents (160.1 – 106.11) Uniformly distributed floor live loads (7603.11, 1807) Floor Area Use Loads Shown		Roof live loads (1603.1.2, 1607.11)
		Roof snow loads (1603.7.3, 1608)
		Ground snow load, Pg (1608.2)
		If $Pg > 10$ psf, flat-roof snow load Pf
		If $P_g > 10$ psf, snow exposure factor, Q
	,	If $P_g > 10$ psf, snow load importance factor, J_c
		Roof thermal factor, G (1608.4)
		Sloped roof snowload, P ₅ (1608.4)
Wind loads (1603.1.4, 1609)		Seismic design category (1616.3)
Design option utilized (1609.1.1, 1609.6)		Basic seismic force resisting system (1617.6.2)
Basic wind speed (1809.3)		Response modification coefficient, $_{R^{\prime}}$ and
Building category and wind importance Factor, butable 1604.5, 1609.5)		deflection amplification factor _{Cl} (1617.6.2)
Wind exposure category (1609.4)		Analysis procedure (1616.6, 1617.5)
Internal pressure coefficient (ASCE 7)		Design base shear (1617.4, 16175.5.1)
Component and cladding pressures (1609.1.1, 1609.6.2.2)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)		Flood Hazard area (1612.3)
Design option utilized (1614.1)		Elevation of structure
Design option utilized (1614.1)Seismic use group ("Category")		Other loads
Spectral response coefficients, SDs & SD1 (1615.1)		Concentrated loads (1607.4)
Site class (1615.1.5)		Partition loads (1607.5)
		Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404