

Certificate of Design Application

From Design	ner:	
Date:		
Job Name:		
Address of C	Construction:	
		cional Building Code d to the building code criteria listed below:
Building Code	e & Year Use Group Class:	fication (s)
Type of Cons	truction	
Will the Struct	ure have a Fire suppression system in Accordance	e with Section 903.3.1 of the 2009 IRC
	**	non separated or non separated (section 302.3)
	•	report required? (See Section 1802.2)
,		
Structural De	sign Calculations	N/A Live load reduction
	Submitted for all structural members (106.1 – 106.11)	N/A Roof live loads (1603.1.2, 1607.11) 42 PSF
Design Loads	s on Construction Documents (1603)	Root snow loads (1603.7.3, 1608)
Uniformly distri	buted floor live loads (7603.11, 1807)	Ground snow load, P_g (1608.2) 42 PSF If $P_g > 10$ per flat roof snow load
Floor Area	Use Loads Shown	nr Fg > 10 psi, nat-1001 show load pg
Restaurant/Ba	ar 100 PSF	If $Pg > 10$ psf, snow exposure factor, C_e
Residential	40 PSF	If $P_g > 10$ psf, snow load importance factor, I_c
		Roof thermal factor, $_{G}$ (1608.4)
		Sloped roof snowload, <i>Ps</i> (1608.4)
Wind loads (1603.1.4, 1609)		Seismic design category (1616.3)
	Design option utilized (1609.1.1, 1609.6)	Ord. Mas. Shear Walls Basic seismic force resisting system (1617.6.2)
100 MPH	Basic wind speed (1809.3)	1.5, 1.25 Response modification coefficient, $_{R_I}$ and
I, 1.0	Building category and wind importance Factor, hy table 1604.5, 1609.5	deflection amplification factor $_{C\!I}$ (1617.6.2)
В	Wind exposure category (1609.4)	Equiv. Lat. Force Analysis procedure (1616.6, 1617.5)
+/- 0.18	Internal pressure coefficient (ASCE 7)	V=0.167W Design base shear (1617.4, 16175.5.1)
+/- 20 PSF 18 PSF	Component and cladding pressures (1609.1.1, 1609.6.2.2)	Flood loads (1803.1.6, 1612)
		Flood Hazard area (1612.3)
Earth design data (1603.1.5, 1614-1623)		14' above MSL Elevation of structure
ASCE 7	Design option utilized (1614.1)	Other loads
I 0.251_0.097	Seismic use group ("Category")	N/AConcentrated loads (1607.4)
0.251, 0.087 C	Spectral response coefficients, SDs & SD1 (1615.1)	N/A Partition loads (1607.5)
	Site class (1615.1.5)	N/A Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404