

## Certificate of Design Application

From Designer:	Brewster Buttfield, Prospect Design; Joe Hemes, Hemesphere Design LLC	
Date:	March 13, 2013	
Job Name:	Diamond Street Warehouse Ren	ovation
Address of Construction:	1-11 Diamond Street	
	2009 Internationa	l Building Code
Const	ruction project was designed to the	he building code criteria listed below:
	~~~~	mm,
	, NFPA 2003se Group Classification	on (s) S,M,B
Type of Construction Type :	3, Ordinary	
Will the Structure have a Fire supp	oression system in Accordance with	Section 903.3.1 of the 2009 IRC Yes
		parated or non separated (section 302.3) Separated
Supervisory alarm System?	Geotechnical/Soils report	requiredr (See Section 1802.2)
Structural Design Calculations	Existing Structure	Live load reduction
	tructural members (106.1 – 106.11)	Roof live loads (1603.1.2, 1607.11)
Outside to an street an inchibers (1997 – 1997)		Roof snow loads (1603.7.3, 1608)
Design Loads on Construction Documents (1603) Uniformly distributed floor live loads (7603.11, 1807) Floor Area Use Loads Shown		Ground snow load, Pg (1608.2)
		If $P_g > 10$ psf, flat-roof snow load $P_g$
		If Pg > 10 psf, snow exposure factor, G
		If $P_g > 10$ psf, snow load importance factor, $I_g$
		Roof thermal factor, G(1608.4)
Wind loads (1603.1.4, 1609)		Sloped roof snowload, p.(1608.4)
	J / (2011 1 1 1 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1	Seismic design category (1616.3)
Design option utilized (1609.1.1, 1609.6)  Basic wind speed (1809.3)		Basic seismic force resisting system (1617.6.2)
Building category and wind importance Factor, In		Response modification coefficient, Ry and
table 1604.5, 1609.5) Wind exposure category (1609.4)		deflection amplification factor <sub>Cl</sub> (1617.6.2) Analysis procedure (1616.6, 1617.5)
Internal pressure coefficient (ASCE 7)		
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)		Flood Hazard area (1612.3)
Earth design data (1603.1.5, 1614-1623)		Elevation of structure
Design option utilized (1614.1)		Other loads
Scismic use group ("Category")		Concentrated loads (1607.4)
Spectral response coefficients, SDs & SDI (1615.1)		Partition loads (1607.5)
Site class (1615.1.5)		Misc. Loads (Table 16)7 8 1607 6 1 1607 7

1607.12, 1607.13, 1610, 1611, 2404