

## Certificate of Design Application

From Designer:

Date:

O4/01/2016

Job Name:

Address of Construction:

WINTON SCOTT ARCHITECTS, PA
STRUCTURAL INTEGRITY CONSULTING ENGINEERS

04/01/2016

443 CONGRESS

443 CONGRESS, PORTLAND MAINE 04101

## 2009 International Building Code

Construction project was designed to the building code criteria listed below:

Building Code & Year BC 2009 Use Group Classification BC IB / NFPA II (222)				fication (s) _	n (s) BUSINESS B / RESIDENTIAL R2	
Type of Cor				·-····		
Will the Struc	cture have a F	ire suppression	n system in Accordance	with Section	903.3.1 of the 2	2009 IBC YES
Is the Structu	re mixed use	YES	_ If yes, separated or n	on separated	or non separate	2HR separation between d (section 302.3) business and residential use
Supervisory a	larm System?		_Geotechnical/Soils re	port required	? (See Section 1	802.2) N/A
Structural Design Calculations					None	Live load reduction
Submitted for all structural members (106.1 – 106.11)						Roof <i>live</i> loads (1603.1.2, 1607.11)
					42 PSF + Drift	Roof snow loads (1603.7.3, 1608)
Design Loads on Construction Documents (1603) Uniformly distributed floor live loads (7603.11, 1807)					60 PSF	Ground snow load, Pg (1608.2)
Floor Area	a Use	Loads Shown				_If Pg > 10 psf, flat-roof snow load p
Multifamily Re	esidential	40 PSF			1.0	3
					1.0If Pg > 10 psf, snow load importance f	If $P_g > 10$ psf, snow exposure factor, $G$
						77
· · · · · · · · · · · · · · · · · · ·	•				1.0	Roof thermal factor, $_{G}$ (1608.4)
Wind loads (1602.1.4.1600)					42 PSF Sloped roof snowload, P. (1608.4)	
Wind loads (1603.1.4, 1609)  Analytical Posicy option williand (1600.1.1, 1600.0)					Not Required	Seismic design category (1616.3)
100 MPH					Existing Bldg.	Basic seismic force resisting system (1617.6.2)
Dasie wild speed (1667.5)						Response modification coefficient, Rt and
	wind importance Pactor, for table 1604.5, 1609.5)  Wind exposure category (1609.4)  Internal pressure coefficient (ASCE 7)  PSF  Component and cladding pressures (1609.1.1, 1609.6.2.2)					deflection amplification factor $_{Cl}$ (1617.6.2)
B 0.55						Analysis procedure (1616.6, 1617.5)
45 PSF					-	Design base shear (1617.4, 16175.5.1)
22 PSF					Flood loads (1803.1.6, 1612)	
Earth design data (1603.1.5, 1614-1623)						_Flood Hazard area (1612.3)
Not Required Existing Bldg.	·					Elevation of structure
	Design option utilized (1614.1) Seismic use group ("Category") Spectral response coefficients, SDs & SDI (1615.1) Site class (1615.1.5)				Other loads	
						_Concentrated loads (1607.4)
						Partition loads (1607.5)
	опе сыз (101:	<i></i>				Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404