

## Certificate of Design Application

From Designer:	Chappell Engineering Associates, LL	<u> </u>	
Date:	August 10, 2015		
Job Name:	USM Law Building - T-Mobile Site Number 4PB1204		
Address of Construction: 232 Deering Avenue, Portland, ME (		4102	
_	2009 International	0	
Co	onstruction project was designed to th	e building code cri	teria listed below:
Building Code & Year IBC	2009 Use Group Classification	n (s) Existing Buildin	g - E
Type of Construction Pro	posed Construction - Rooftop Equipment Frame fo	or Radio Cabinets	
	suppression system in Accordance with S		e 2009 IRC No
	lo If yes, separated or non sep		
	/A Geotechnical/Soils report r	<del>-</del>	
supervisory alarm systems —	Geotechnical/ Sons report i	equired: (See Seedo)	11 1002.2)
Structural Design Calculations		None	Live load reduction
YesSubmitted for all structural members (106.1 – 106.11)  Design Loads on Construction Documents (1603)  Uniformly distributed floor live loads (7603.11, 1807)  Floor Area UseLoads Shown		31.5 psf	Roof live loads (1603.1.2, 1607.11)
		31.5 psf	Roof snow loads (1603.7.3, 1608)
		50 psf	Ground snow load, Pg (1608.2)
		31.5 psf	If $P_g > 10$ psf, flat-roof snow load $p_f$
		0.9	If $P_g > 10$ psf, snow exposure factor, $C_g$
		1.0	If $P_g > 10$ psf, snow load importance factor, $I_k$
		1.0	Roof thermal factor, G(1608.4)
		N/A	Sloped roof snowload, p <sub>t</sub> (1608.4)
Wind loads (1603.1.4, 1609)		N/A	Seismic design category (1616.3)
Analytical Procedure Design option utilized (1609.1.1, 1609.6)		N/A	Basic seismic force resisting system (1617.6.2)
100 mph Basic wind spe		N/A	Response modification coefficient, Rt and
III Building catego	ory and wind importance Factor, h		deflection amplification factor <sub>Cd</sub> (1617.6.2)
B Wind exposure	table 1604.5, 1609.5) e category (1609.4)	N/A	Analysis procedure (1616.6, 1617.5)
•	coefficient (ASCE 7)	N/A	Design base shear (1617.4, 16175.5.1)
	l cladding pressures (1609.1.1, 1609.6.2.2)	Flood loads	s (1803.1.6, 1612)
N/A Main force wind pressures (7603.1.1, 1609.6.2.1)		N/A	_Flood Hazard area (1612.3)
Earth design data (1603.1.5, 1614-1623)		97ft AGL	Elevation of structure
NI/A	utilized (1614.1)	Other loads	8
NI/A	oup ("Category")	N/A	Concentrated loads (1607.4)
NI/A	nse coefficients, SDs & SDI (1615.1)	N/A	Partition loads (1607.5)
Site class (1615.	.1.3)	N/A	Misc. loads (l'able 1607 8 1607 6 1 1607 7

1607.12, 1607.13, 1610, 1611, 2404