



Certificate of Design Application

From Designer: JOE PELANEY - WHIPPLE CALLENDER ARCH.
 Date: 6/1/13
 Job Name: 116 WALTON ST.
 Address of Construction: 116 WALTON ST. PORTLAND ME. 04103

2009 International Building Code

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

IBC 2009 R-4 95
 Building Code & Year IRC R-3 Use Group Classification (s) R-3 via IRC
 Type of Construction V
 Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC 13D SYSTEM
 Is the Structure mixed use? NO If yes, separated or non separated or non separated (section 302.3) N.A.
 Supervisory alarm System? NO Geotechnical/Soils report required? (See Section 1802.2) NO

Structural Design Calculations

Submitted for all structural members (106.1 - 106.11)

Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (7603.11, 1807)

Floor Area Use	Loads Shown
NEW KITCHEN FVR	45 P.S.F. -12" TJI L90
NEW KITCHEN ROOF	65 P.S.F. -14" TJI L90
	288# p.l.f. allowed OK

- NA Live load reduction
- Roof live loads (1603.1.2, 1607.11)
- Roof snow loads (1603.7.3, 1608)
- Ground snow load, P_g (1608.2)
- If $P_g > 10$ psf, flat-roof snow load P_f
- If $P_g > 10$ psf, snow exposure factor, C_e
- If $P_g > 10$ psf, snow load importance factor, I_s
- Roof thermal factor, C_t (1608.4)
- Sloped roof snowload, P_R (1608.4)
- Seismic design category (1616.3)
- Basic seismic force resisting system (1617.6.2)
- Response modification coefficient, R , and deflection amplification factor, C_d (1617.6.2)
- Analysis procedure (1616.6, 1617.5)
- Design base shear (1617.4, 1617.5.1)

Wind loads (1603.1.4, 1609)

NA Design option utilized (1609.1.1, 1609.6)
 Basic wind speed (1809.3)
 Building category and wind importance Factor, I_w table 1604.5, 1609.5)
 Wind exposure category (1609.4)
 Internal pressure coefficient (ASCE 7)
 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)

NA Flood Hazard area (1612.3)
 Elevation of structure

Earth design data (1603.1.5, 1614-1623)

NA Design option utilized (1614.1)
 Seismic use group ("Category")
 Spectral response coefficients, S_D & S_I (1615.1)
 Site class (1615.1.5)

Other loads

NA Concentrated loads (1607.4)
 Partition loads (1607.5)
 Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)