Certificate of Design Application

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 10/03/14

From Designer: See certification form by Essex Structural Steel Co.

Date: _____

Job Name: _____

Address of Construction: _____

2009 International Building Code

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

Building Code & Year _____ Use Group Classification (s) _____

Type of Construction _____

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IRC _____

Is the Structure mixed use? _____ If yes, separated or non separated or non separated (section 302.3) _____

Supervisory alarm System? _____ Geotechnical/Soils report required? (See Section 1802.2) _____

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

Wind loads (1603.1.4, 1609)

_____ 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)

Earth design data (1603.1.5, 1614-1623)

_____ Design option utilized (1614.1)

_____ Seismic use group ("Category")

_____ Spectral response coefficients, S_{DS} & S_{D1} (1615.1)

_____ Site class (1615.1.5)

_____ 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_s (1608.4)

_____ Seismic design category (1616.3)

_____ Basic seismic force resisting system (1617.6.2)

_____ Response modification coefficient, R_f and deflection amplification factor C_d (1617.6.2)

_____ Analysis procedure (1616.6, 1617.5)

_____ Design base shear (1617.4, 16175.5.1)

Flood loads (1803.1.6, 1612)

_____ Flood Hazard area (1612.3)

_____ Elevation of structure

Other loads

_____ 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

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CITY OF PORTLAND, MAINE
RESURGAM
Reviewed for Code Compliance
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Date: 10/03/14

S-1468
Canal Landing
100 West Commercial Street
Portland, ME 04101

The pre-engineered steel building for the above referenced project was designed and will be fabricated in accordance with the order documents and in general accordance with the latest procedures and design criteria of the following specifications.

1. AISC: Specification for the Design of Structural Steel for Buildings/ 13TH Ed.
2. AISI: Specification for Design of Cold Formed Steel Structural Members/ 2006 Ed.
3. MBMA: Low Rise Building Systems Manual/ 2006 Ed.
4. AWS: American Welding Standards D1.1/ 2006 Ed.

Building Code:	IBC-2009
Roof Live Load:	20.0 psf
Ground Snow Load:	60.0 psf
Roof Snow Load:	42.0 psf (111.13 psf Snow Drift Load on 144' x 30' x 24' connector)
Frame Dead Load:	3.0 psf
Roof Collateral Load:	5.0 psf
Wind Load:	115 mph
Seismic Design Category:	"B"
Load Combinations:	Per IBC-2009
Importance Factor:	Snow = 1.0; Wind = 1.0; Seismic = 1.0
Thermal Factor:	1.0 (Above Freezing Building)

Certification by Engineer
I STEPHEN J. REIFENBERG, a licensed engineer in the State of ME, certify that I have reviewed the design criteria for the steel building system described above and to the best of my knowledge all components have been designed to meet the applicable criteria as specified in the Order Documents.

Stephen J Reifenberg 7/25/14
Engineer's signature Date
PE

STATE OF MAINE
STEPHEN JON REIFENBERG NO. 4763 LICENSED
PROFESSIONAL ENGINEER