



# Certificate of Design Application

From Designer:

E.S. Coffin Engineering & Surveying, Inc.

Date:

June 25, 2014

Job Name:

Get Air Portland

Address of Construction:

921 Riverside Street

## 2009 International Building Code

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

Building Code & Year 2009 Use Group Classification (s) Assembly A-3

Type of Construction Type V B

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2009 IBC Yes

Is the Structure mixed use? No If yes, separated or non separated or non separated (section 302.3) \_\_\_\_\_

Supervisory alarm System? No Geotechnical/Soils report required? (See Section 1802.2) No

### Structural Design Calculations

Yes 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
All Platforms	125 PSF

### Wind loads (1603.1.4, 1609)

N/A 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)

N/A Design option utilized (1614.1)

\_\_\_\_\_ Seismic use group ("Category")

\_\_\_\_\_ Spectral response coefficients,  $S_D$  &  $S_{D1}$  (1615.1)

\_\_\_\_\_ Site class (1615.1.5)

N/A Live load reduction

N/A Roof *live* loads (1603.1.2, 1607.11)

N/A Roof snow loads (1603.7.3, 1608)

N/A Ground snow load,  $P_g$  (1608.2)

N/A If  $P_g > 10$  psf, flat-roof snow load  $P_f$

N/A If  $P_g > 10$  psf, snow exposure factor,  $C_e$

N/A If  $P_g > 10$  psf, snow load importance factor,  $I_s$

N/A Roof thermal factor,  $C_t$  (1608.4)

N/A Sloped roof snowload,  $P_s$  (1608.4)

N/A Seismic design category (1616.3)

N/A Basic seismic force resisting system (1617.6.2)

N/A Response modification coefficient,  $R$  and deflection amplification factor  $C_d$  (1617.6.2)

N/A Analysis procedure (1616.6, 1617.5)

N/A Design base shear (1617.4, 1617.5.1)

### Flood loads (1803.1.6, 1612)

N/A Flood Hazard area (1612.3)

N/A Elevation of structure

### Other loads

N/A Concentrated loads (1607.4)

N/A Partition loads (1607.5)

1607.7 Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)



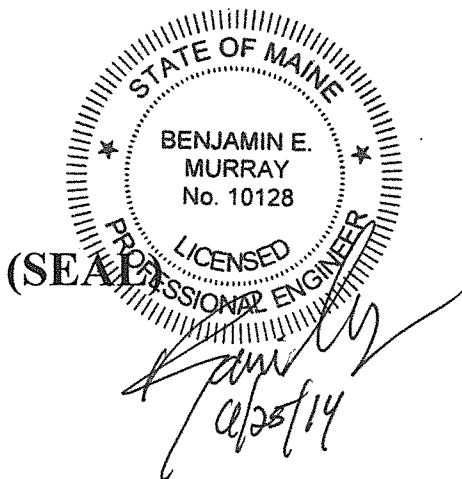
# Accessibility Building Code Certificate

**Designer:** E.S. Coffin Engineering & Surveying, Inc.

**Address of Project:** 921 Riverside Street

**Nature of Project:** Change of use of existing Warehouse/Office to Indoor  
Trampoline Park.

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.



**Signature:** *Benjamin E. Murray*

**Title:** Project Engineer

**Firm:** E.S. Coffin Engineering

**Address:** P.O. Box 4687  
Augusta, Maine 04330

**Phone:** (207) 623-9475

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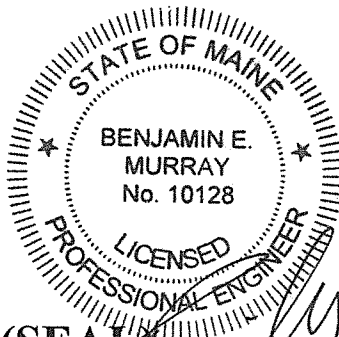
# Certificate of Design

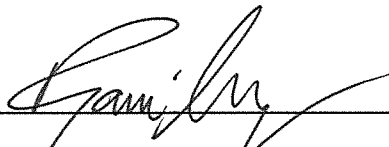
**Date:** June 25, 2014

**From:** E.S. Coffin Engineering

These plans and / or specifications covering construction work on:  
Change of use of existing Warehouse/Office to Indoor Trampoline Park.

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the **2009 International Building Code** and local amendments.



Signature: 

Title: Project Engineer

Firm: E.S. Coffin Engineering

Address: P.O. Box 4687

Augusta, Maine

Phone: (207) 623-9475

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