



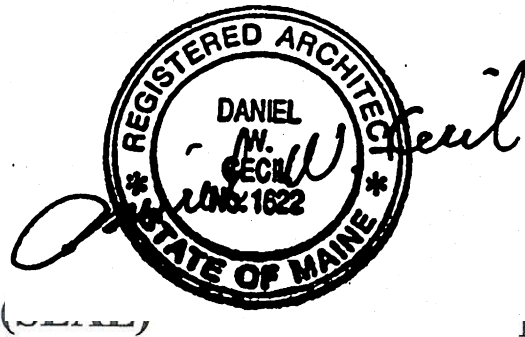
Accessibility Building Code Certificate

Designer: Daniel W. Cecil

Address of Project: 56 Evergreen Drive

Nature of Project: Addition to manufacturing warehouse
area.

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: *Daniel W. Cecil*

Title: Principal

Firm: Harriman

Address: 46 Harriman Drive

Auburn, ME 04210

Phone: 207-784-5100

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



Certificate of Design

Date: August 5, 2014

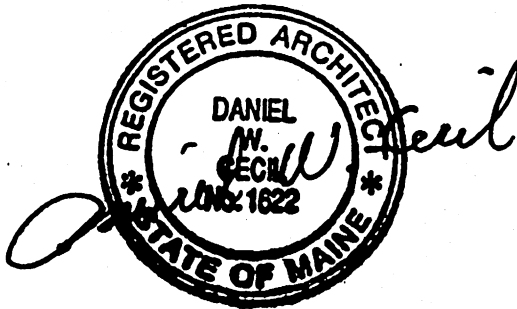
From: Daniel W. Cecil

These plans and / or specifications covering construction work on:

Immucell Corp.

56 Evergreen Drive

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



(SEAL)

Signature: *Daniel W. Cecil*

Title: Principal

Firm: Harriman

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Auburn, ME 04210

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Certificate of Design Application

From Designer: Daniel W. Cecil
 Date: August 5, 2014
 Job Name: Immucell Corporation
 Address of Construction: 56 Evergreen Drive

2009 International Building Code

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

Building Code & Year IBC 2009 Use Group Classification (s) B, F - 1 Storage S-1

Type of Construction IIB

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

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

Supervisory alarm System? Yes 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
<u>storage</u>	<u>250 PSF</u>
_____	_____
_____	_____
_____	_____

Wind loads (1603.1.4, 1609)

ASCE7 Design option utilized (1609.1.1, 1609.6)
100 mph Basic wind speed (1809.3)
II, 1.00 Building category and wind importance Factor, I_w (table 1604.5, 1609.5)
1.00 Wind exposure category (1609.4)
+/- 0.13 Internal pressure coefficient (ASCE 7)
+23 psf/-26 psf Component and cladding pressures (1609.1.1, 1609.6.2.2)
21 psf Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

ASCE 7 Design option utilized (1614.1)
II Seismic use group ("Category")
SDS - 0.330 SD1 = 0.125 Spectral response coefficients, S_D & S_{D1} (1615.1)
D Site class (1615.1.5)

Will provide information upon excavation.

NA Live load reduction
NA Roof live loads (1603.1.2, 1607.11)
42 PSF + drift Roof snow loads (1603.7.3, 1608)
60 PSF Ground snow load, P_g (1608.2)
42 PSF If $P_g > 10$ psf, flat-roof snow load P_f
Ce = 1.0 If $P_g > 10$ psf, snow exposure factor, C_e
I = 1.0 If $P_g > 10$ psf, snow load importance factor, I_s
Ct = 1.0 Roof thermal factor, C_t (1608.4)
NA Sloped roof snowload, P_s (1608.4)
C Seismic design category (1616.3)

Concentric braced frames Basic seismic force resisting system (1617.6.2)

R = 3.0 Response modification coefficient, R and
 deflection amplification factor, C_d (1617.6.2)

Equiv. Lat. Force Analysis procedure (1616.6, 1617.5)
V - 0.106W Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

NA Flood Hazard area (1612.3)
NA Elevation of structure

Other loads

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

Fire Department requirements.

The following shall be submitted on a separate sheet:

- Name, address and phone number of applicant **and** the project architect.
 - Proposed use of structure (NFPA and IBC classification)
 - Square footage of proposed structure (total and per story)
 - Existing and proposed fire protection of structure.
 - Separate plans shall be submitted for
 - a) Suppression system - **sprinkler contractor**
 - b) Detection System (separate permit is required)
 - A separate Life Safety Plan must include:
 - a) Fire resistance ratings of all means of egress
 - b) Travel distance from most remote point to exit discharge
 - c) Location of any required fire extinguishers
 - d) Location of emergency lighting
 - e) Location of exit signs
 - f) NFPA 101 code summary
- N/A Elevators shall be sized to fit an 80" x 24" stretcher.

For questions on Fire Department requirements call the Fire Prevention Officer at (207) 874-8405.

Please submit all of the information outlined in this application checklist. If the application is incomplete, the application may be refused.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

Permit Fee: \$25.00 for the first \$1000.00 construction cost, \$11.00 per additional \$1000.00 cost

This is not a Permit; you may not commence any work until the Permit is issued.