

# **Envelope Compliance Certificate**

Designer/Contractor:

Windham, ME 04062

16 Danielle Drive

207-892-9800

Biskup Construction, Inc.

### **Section 1: Project Information**

Energy Code: 2009 IECC

Project Title: Purestat Extrusions, LLC (Tenant)

Project Type: New Construction

Construction Site: 75 Walch Drive

Portland, ME 04103

Building Location (for weather data):

Climate Zone:

Vertical Glazing / Wall Area Pct.:

**Building Use: Activity Type(s)** 

1-Manufacturing Facility: Nonresidential

2-Office: Nonresidential

Owner/Agent: Patrick Keeley

Moongate Properties, LLC 25 Sturdivant Drive Portland, ME 040103

Portland, Maine

2%

Floor Area 9256

1669

# Section 2: Envelope Assemblies and Requirements Checklist

#### Envelope PASSES: Design 2% better than code.

#### **Envelope Assemblies:**

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(e)
Roof (Standing Seam): Other Metal Building Roof, [Bldg. Use 1 - Manufacturing Facility] (b) Comments: Liner System R-11 + R-19 Ashrae Table A2.3	10925			0.040	0.049
Concrete Block Wall: Concrete Block:8", Partially Grouted, Cells Empty,Normal Density, Furring: Wood, [Bldg. Use 2 - Office]	187	11.0	0.0	0.090	0.080
Alum. Entrance: Glass (> 50% glazing):Metal Frame, Perf. Type: Energy code default, Double Pane with Low-E, Clear , SHGC 0.70, [Bldg. Use 2 - Office]	15			0.800	0.800
Metal Bldg. Walls: Other Metal Building Wall, [Bldg. Use 2 - Office] (b) Comments: 6" R-19 MBI, Ashrae Table A3.2	706			0.084	0.069
Window 1: Vinyl/Fiberglass Frame, Perf. Specs.: Product ID Marvin Integrity, SHGC 0.33, [Bldg. Use 2 - Office] (c)	80			0.310	0.350
Alum. Entrance: Glass (> 50% glazing):Metal Frame, Perf. Type: Energy code default, Double Pane with Low-E, Clear , SHGC 0.70, [Bldg. Use 2 - Office]	26	7110	***	0.800	0.800
Concrete Kicker Wall: Solid Concrete:8" Thickness,Normal Density , Furring: Wood, [Bldg. Use 2 - Office]	48	11.0	0.0	0.094	0.080
Concrte Block Wall: Concrete Block:8", Partially Grouted, Cells Empty,Normal Density , Furring: None, [Bldg. Use 1 - Manufacturing Facility]	119		5.0	0.138	0.080
Metal Bidg. Walls: Other Metal Building Wall, [Bidg. Use 1 - Manufacturing Facility] (b) Comments: 6" R-19 MBI, Ashrae Table A3.2	6955			0.084	0.069
Window 2: Vinyl/Fiberglass Frame, Perf. Specs.: Product ID Marvin Integrity, SHGC 0.33, [Bldg. Use 1 - Manufacturing Facility] (c)	48			0.310	0.350
Overhead doors: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Manufacturing Facility] Comments: Clopay Model 3717	56			0.066	0.500

Project Title: Purestat Extrusions, LLC (Tenant) Data filename: C:\Users\Jim Biskup\Documents\COMcheck\Purestat.cck

3070 pass door: Insulated Metal, Swinging, [Bldg. Use 1 - Manufacturing Facility] Comments: Ashrae Table A7.1 B	28			0.500	0.700
Concrete Kicker Wall: Solid Concrete:8" Thickness,Normal Density , Furring: None, [Bldg. Use 1 - Manufacturing Facility]	715		5.0	0.147	0.080
3070 pass door: Insulated Metal, Swinging, [Bldg. Use 1 - Manufacturing Facility] Comments: Ashrae Table A7.1 B	14			0.500	0.700
Overhead doors: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Manufacturing Facility] Comments: Clopay Model 3717	24	***		0.066	0.500
Floor 1: Slab-On-Grade:Unheated, Vertical 4 ft., [Bldg. Use 1 - Manufacturing Facility]	420		10.0		

<sup>(</sup>a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

#### Air Leakage, Component Certification, and Vapor Retarder Requirements:

Ø	1.	All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions.
ď	2.	Windows, doors, and skylights certified as meeting leakage requirements.
<u>-</u>	3.	Component R-values & U-factors labeled as certified.
₫′	4.	No roof insulation is installed on a suspended ceiling with removable ceiling panels.
<u>v</u>	5.	'Other' components have supporting documentation for proposed U-Factors.
	6.	Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.
	7.	Stair, elevator shaft vents, and other outdoor air intake and exhaust openings in the building envelope are equipped with motorized dampers.
ø	8.	Cargo doors and loading dock doors are weather sealed.
	9.	Recessed lighting fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, are sealed with gasket or caulk.
		Building entrance doors have a vestibule equipped with self-closing devices.  Exceptions:
		☐ Building entrances with revolving doors.
		Doors not intended to be used as a building entrance.
		Doors that open directly from a space less than 3000 sq. ft. in area.

## **Section 3: Compliance Statement**

Doors opening directly from a sleeping/dwelling unit.

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2009 IECC requirements in COMcheck Version 4.0.5.2 and to comply with the mandatory requirements in the Requirements Checklist.

Jim Bis Kup Pres. Signature 3/8/17

Name - Title Signature

Doors used primarily to facilitate vehicular movement or materials handling and adjacent personnel doors.

<sup>(</sup>b) 'Other' components require supporting documentation for proposed U-factors.

<sup>(</sup>c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.