

# COMcheck Software Version 4.0.1

# **Envelope Compliance Certificate**

# **Section 1: Project Information**

Energy Code: 2009 IECC

Project Title: 1039 Riverside Street LLC Project Type: New Construction

Construction Site: 1076 Riverside Street Portland, ME 04103

Owner/Agent: 1039 Riverside LLC Portland, ME 040103 Designer/Contractor: Biskup Construction, Inc. 16 Danielle Drive Windham, ME 04062 207-892-9800

Building Location (for weather data):

Climate Zone:

Portland, Maine

3%

Vertical Glazing / Wall Area Pct.:

Floor Area

Building Use: Activity Type(s) 1-Retail: Nonresidential 7500

# 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(a)
Roof (Standing Seam): Other Metal Building Roof, [Bldg. Use 1 - Retail] (b)	7500			0.040	0.049
Comments: Liner System R-11 + R-19 no thermal bl;ocks Ashrae Table A2.3					
Concrete Block Wall: Concrete Block:8", Partially Grouted, Cells Empty,Normal Density , Furring: None, [Bldg. Use 1 - Retail]	267		0.0	0.550	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 1 - Retail]	34			0.800	0.800
Metal Bldg. Walls: Other Metal Building Wall, [Bldg. Use 1 - Retail] (b)	6355			0.084	0.069
Comments: 6" R-19 MBI, Ashrae Table A3.2					
Window 1: Vinyl/Fiberglass Frame, Perf. Specs.: Product ID Marvin, SHGC 0.33, [Bldg. Use 1 - Retail] (c)	96	****		0.031	0.350
Overhead doors (Clopay): Insulated Metal, Non-Swinging, [Bldg. Use 1 - Retail]	288			0.066	0.500
Comments: Clopay Model 3717					
3070 pass door: Insulated Metal, Swinging, [Bldg. Use 1 - Retail] Comments: Ashrae Table A7.1 B	60			0.500	0.700
Alum. Entrance: Glass (> 50% glazing):Metal Frame, Perf. Type: Energy code default, Double Pane with Low-E, Clear , SHGC 0.70, [Bldg. Use 1 - Retail]	56	*****		0.800	0.800
Kicker Wall: Solid Concrete:8" Thickness,Normal Density , Furring: None, [Bldg. Use 1 - Retail]	628		0.0	0.740	0.080
3070 pass door: Insulated Metal, Swinging, [Bldg. Use 1 - Retail]	36			0.500	0.700
Overhead doors (Clopay): Insulated Metal, Non-Swinging, [Bldg. Use 1 - Retail]	288		***	0.066	0.500
Comments: Clopay Model 3717					
Floor 1: Slab-On-Grade:Unheated, Vertical 4 ft., [Bldg. Use 1 - Retail]	350		10.0		

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- (a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
- (b) 'Other' components require supporting documentation for proposed U-factors.
- (c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

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

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. 2. Windows, doors, and skylights certified as meeting leakage requirements. 3. Component R-values & U-factors labeled as certified. 4. No roof insulation is installed on a suspended ceiling with removable ceiling panels. ✓ 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. 14.7. Stair, elevator shaft vents, and other outdoor air intake and exhaust openings in the building envelope are equipped with motorized dampers. 8. Cargo doors and loading dock doors are weather sealed. gf 9. Recessed lighting fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, are sealed with gasket or caulk. 10. 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. Doors used primarily to facilitate vehicular movement or materials handling and adjacent personnel doors.

# **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 4.0.1 and to comply with the mandatory requirements in the Requirements Checklist.

Tin Biskup Pres. Signature Date

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# ENERGY STARD Qualified in Highlighted Regions







National Fenestration Rating Council®

CERTIFIED

All Ultrex Glider FG/FG Horizontal Slider 11/16" IG LOE 272 ARGON 3.1mm LoE 272 / 11.5mm argon / 3.1mm

.0045 SS-D

MAR - N - 363 - 00026 - 00001

# **ENERGY PERFORMANCE RATINGS**

(U.S./I - P)

Solar Heat Gain Coefficient

# **ADDITIONAL PERFORMANCE RATINGS**

Visible Transmittance

Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. MFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturers literature for other product performance information, www.nirc.org

# Meets or exceeds C.E.C. Air Infiltration Standards



Licensee #407 - H -988 integrity All Ultrex Glider

Hallmark Certified

Manufacturer stipulates conformance as indicated below LC — PG4U 1816X 1867 mm (71.5X41.5 m)

AAMA/WDMA/CSA/101/ 1.S.2/A440 - 08

LC - PG40 DP + 40/ - 40

AAMA/WDMA/CSA/101/

HS-LC40 1816X1067

DP + 40/ - 40

1.S.2/A440 - 05

product may be covered by one or more of the following patents: 5115598, 5125442, 7591106



# **Clopay Model 3717 Specifications**

#### PART 1 GENERAL

#### 1.01 Section Includes

A. Upward Acting Sectional Steel Doors, including unit sections, brackets, tracks, glazing, counter balance mechanisms, and hardware.

#### 1.02 Related Work

- A. Opening preparation, miscellaneous or structural steel, finish or field painting, electrical wires, wiring, disconnect switches, conduit are in the scope of the work of other sections or trades.
- B. Submit manufacturer's product data and installation instructions for each type of sectional door. Include both published data and any specific data prepared for this project.

#### 1.03 Single Source Responsibility

**A.** Provide door, tracks, motors and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

#### PART 2 PRODUCT

#### 2.01 Manufacturer

**A.** Upward Acting Sectional Steel Doors are to be Clopay<sup>®</sup> Model 3717 as manufactured by Clopay Building Products Company, Inc.

#### 2.02 Material /Construction

- A. Type: 1-3/4" (44.45 mm) thick, sandwich construction, roll-formed commercial steel.
- B. Size: Standard maximum door size is 26'2" (7.98 m) wide by 20' (6.1 m) high.
- C. Section Joint: Sections to form a weather-tight tongue and groove joint.
- **D. Material :** Hot-dipped galvanized, complying with ASTM A-924, A-653, exterior and interior skins separated to form thermal break and filled by foamed-in-place polyurethane core; standard lift operating style with track and hardware; complying with DASMA 102, commercial application.
- E. Finish: Pre-finished interior and exterior skins with 1-mil, three coat baked-on polyester topcoat over primer on a phosphate coating.
  - 1. Exterior Skin: 27 gauge (.016", (.40 mm) minimum) exterior steel face sheet with stucco texture, shallow U-ribbed. Color: white, brown, tan, grey, Trinar® white, Trinar® beige
  - 2. Interior Skin: 27 gauge (.016", (.40 mm) minimum) interior steel face sheet with stucco texture, shallow U-ribbed. Color: white

### 2.03 Related Door Components

- A. End Stiles: Galvanized steel. Attachment hardware to have pre-punched holes.
  - 1. 18 gauge (.045", (1.14 mm) minimum) single end hinge style.
  - 2. 16 gauge (.056", (1.42 mm) minimum) double end hinge style.
- B. Hinge and Roller Assemblies: Hinges and brackets to be 14 gauge (.070", (1.78 mm) minimum) galvanized steel.

- Ten-ball steel rollers to be full-floating ball bearing in case hardened steel races and mounted to fit the taper of the track.
- C. Hinge Back-up Plate: 19 gauge (.034", (.86 mm) minimum) galvanized steel.
  - 1. Located at the top and bottom on the inside of each section.
  - 2. 2" (50.8 mm) x 3" (76.2 mm) plates spaced at 44" (1.12 m) O.C.

#### 2.04 Insulation

A. 1-3/4" Foamed- In-Place Polyurethane: R-value = 15.05, U-value = .066

#### 2.05 Tracks

- **A.** Horizontal Track: To be 14 gauge (.075", (1.91 mm) minimum) galvanized steel reinforced with 13 gauge (.085", (2.16 mm) minimum) galvanized steel angles.
- **B. Rolled Galvanized Steel** (select one): Standard lift track, vertical lift track, high lift track, follow-the-roof slope track, low headroom track provide: 2" (50.8 mm) or 3" (76.2 mm) as required.
- C. Vertical Tracks: To be 16 gauge (.060", (1.52 mm) minimum) galvanized steel, tapered and mounted for wedge type closing.
- D. Mounting: Interior face mounted on a prepared surface.
- E. Track Mounting (select one):
  - **1. Bracket Mounting:** Galvanized steel mounting brackets 12 gauge (.101", (2.57 mm) minimum) thick for wood jambs.
  - **2. Continuous or Reverse Galvanized Steel Angle Mounting:** 12 gauge (.101", (2.57 mm) minimum) angle for steel jambs; splice plates 12 gauge (.101", (2.57 mm) minimum).

### 2.06 Spring Counterbalance

- **A. Springs:** Shall be torsion type, low stress, helically wound, oil-tempered spring on a galvanized steel tube or solid steel shaft. Wire to provide 10,000 cycles minimum.
  - 1. 25,000 cycles
  - 2. 50,000 cycles
  - 3. 100,000 cycles
- B. Cable Drums: Die cast aluminum.
- C. Cable: Pre-formed galvanized steel aircraft cable to provide a minimum of a 7:1 safety factor.

#### 2.07 Operation

- A. Operation Shall Be: Manual push-up, chain hoist, or motor operated.
- **B. For Manual Operation:** Requiring maximum exertion of the greater of 5% of door weight or 25 lbs. 111.2 N) force to open. Use pull rope supplied.
- C. Inside and outside roll-grip handle.

# 2.08 Weather-stripping

- A. Section Joint Seal Tape: Neoprene foam seal, one-piece full length between joint of sections.
- **B. Field Installed Jamb/Header Weather-stripping:** Extruded vinyl, placed in moderate contact with outside of door sections.

#### 2.09 Bottom Sections

- A. Astragal Retainer: Full length of section, .040" (1.02 mm) aluminum.
- B. Astragal: 3-1/2" (88.9 mm) co-extruded U-shaped flexible PVC vinyl.
- C. Step Plate / Lift Handle: Horizontal steel step plate / lift handle to be located on bottom section.

#### 2.10 Locking

- A. Inside spring loaded slide bolt lock on end stile to securely engage slot in track.
  - 1. Optional Four point cylinder lock with L-handle and a single lock bar.

#### 2.11 Options

- A. Removable Mullions: 2" (50.8 mm) Carry-away or Roll-away up to 14' (4.267 m) high.
- B. Glazing:
  - 1. Window Size (select one):
    - a. 24" x 8" (610 mm x 203 mm)
    - b. 24" x 12" (610 mm x 305 mm)\*
    - \*Some restrictions apply. Consult Commercial Information Assistance
  - 2. Frame to be rigid PVC.
    - a. Glass Available:
      - 1. 1/2" Insulated glass
      - 2. 1/2" Insulated Tempered glass
      - 3. 1/4" wire glass
  - 3. Full View Aluminum Sash
    - a. Glass Available:
      - 1. 1/2" Insulated glass
      - 2. 1/2" Insulated Tempered glass3. 1/8" DSB

      - 4. 1/8" Tempered
      - 5. 1/8" Plexiglass
      - 6. 1/4" Polycarbonate

### PART 3 EXECUTION

#### 3.01 Examination

A. Verify that dimensions are correct and project conditions are suitable for installation. Do not proceed with installation until unsatisfactory conditions have been corrected.

# 3.02 Installation

- A. Installation: To be by an authorized Clopay representative and in accordance with manufacturer's instructions and standards.
- B. Submit manufacturer's product data and sectional upward acting door. Include both published data and any specific data prepared for this project.

Note to Specifiers: Please reference Ideal Door model C7X17.