Windows & Doors

Submittal Package

-Buell Building –

630 St Joseph St, Rapid City, SD
Product Guide Specification

SECTION 08 52 13
ALUMINUM-CLAD WOOD [CASEMENT] [AND] [AWNING] WINDOWS

PART 1  GENERAL

1.1  SECTION INCLUDES

A. Aluminum-clad wood casement and awning windows.

1.4  PERFORMANCE REQUIREMENTS

A. Windows shall be Hallmark certified to a rating of [C] [AP]-[R] [CW]-PG50 specifications in accordance with ANSI/AAMA/WDMA 101/I.S.2/A440-08 or ANSI/AAMA/WDMA 101/I.S.2/A440-11.

B. Window Unit Air Leakage, ASTM E 283, 1.57 psf: 0.05 cfm per square foot of frame or less.

C. Window Unit Water Penetration: No water penetration through window unit when tested in accordance with ASTM E 547, under static pressure of 7.5 psf (52 mph) after 4 cycles of 5 minutes each, with water being applied at a rate of 5 gallons per hour per square foot.

PART 2  PRODUCTS

2.1  MANUFACTURER

A. Pella Corporation, 102 Main Street, Pella, Iowa 50219. Toll Free (800) 54-PELLA. Phone (641) 621-1000. Website www.pella.com.

2.2  ALUMINUM-CLAD WOOD CASEMENT AND AWNING WINDOWS

A. Aluminum-Clad Wood [Casement] [and] [Awning] Windows: [Lifestyle Series®] factory-assembled aluminum-clad wood windows with [outward-opening sash installed in frame & fixed unit].

B. Frame:

1. Select woods, water-repellent, preservative-treated with EnduraGuard® in accordance with WDMA I.S.-4. EnduraGuard includes water-repellency, three active fungicides and an insecticide applied to the frame.

2. Interior Exposed Surfaces: [Pine].


4. Overall Frame Depth: 5 inches (127 mm).
C. Sash:
1. Select woods, water water-repellent, preservative-treated with EnduraGuard in accordance with WDMA I.S.-4. EnduraGuard includes water-repellency, three active fungicides and an insecticide applied to the sash.
2. Interior Exposed Surfaces: [Pine] [Mahogany] [Douglas Fir].
4. Corners: Mortised and tenoned, glued and secured with metal fasteners.
5. Sash Thickness: [2-3/16 inches (56 mm)].

D. Weather Stripping:
1. Dual weather stripping.
2. Continuous, flexible, Santoprene material in dual-durometer design.
3. Units shall have welded corners, compressed between frame and sash for positive seal on all 4 sides.
4. Secondary PVC leaf-type weather strip between sash and frame for positive seals on all 4 sides.

2.3 GLAZING

A. Glazing:
1. Float Glass: ASTM C 1036, Quality 1.
2. Type: Silicone-glazed 11/16-inch, annealed insulating glass, multi-layer Low-E coated with argon

2.4 OPTIONS

A. Insect Screens: Standard.
2. Screen Cloth: Vinyl-coated fiberglass, 18/16 mesh.
3. Set in aluminum frame fitted to inside of window.
4. Complete with necessary hardware.

2.5 HARDWARE

A. Operator:
1. Steel worm-gear operator with hardened gears.
2. Operator Base: Zinc die cast with painted finish.
5. External Hardware Salt Spray Exposure, ASTM B 117: Exceed 1,000 hours.

B. Crank Handle Finish
1. Integrated Folding Crank: [Baked enamel Brown] [White] [Matte Black] [Champagne]

C. Locking System: SureLock System.
1. Single-handle locking system.
2. Operate positive-acting arms that reach out and pull sash into locked position.

2.6 TOLERANCES

A. Windows shall accommodate the following opening tolerances:
1. Vertical Dimensions Between High and Low Points: Plus 1/4 inch, minus 0 inch.
2. Width Dimensions: Plus 1/4 inch, minus 0 inch.
3. Building Columns or Masonry Openings: Plus or minus 1/4 inch from plumb.
2.7 FINISH

   1. Exterior aluminum surfaces shall be finished with the following multi-stage system:
      a. Clean and etch aluminum surface of oxides.
      b. Pre-treat with conversion coating.
      c. Top coat with baked-on polyester enamel.

2. Color: WHITE / TAN / BROWN / BLACK / BRICK RED / PUTTY / POPLAR WHITE / PORTOBELLO / HARTFORD GREEN / MORNING SKY GRAY TBD

3. Performance Requirements: Exterior aluminum finishes shall meet or exceed all performance requirements of AAMA 2603 and the following performance requirements of AAMA 2605:
   a. Dry Film Hardness: Eagle Turquoise Pencil, H minimum.
   b. Film Adhesion: 1 mm crosshatch, dry, wet, boiling water.
   d. Chemical Resistance: 10 percent Muriatic acid, 15 minutes. Mortar pat test, 24 hours.
   e. Detergent Resistance: 3 percent at 100 degrees F, 72 hours.

C. Interior Finish: [Unfinished, ready for site finishing] OR [Factory finished with 1 prime coat and 1 top coat of White] [Linen White] [Bright White] TBD

END OF SECTION
Lifestyle Series Casement

Unit Sections - Dual Pane

VENT

FIXED

Scale 3" = 1' 0"
All dimensions are approximate.
See www.Pella.com for mullion limitations and reinforcing requirements.

Rev. 02/03/2021

LS-CM-27
Lifestyle Series Casement

Unit Sections - Triple Pane

LJ - LOCK JAMB  
HJ - HINGE JAMB

VENT / FIXED

VERTICAL JOINING MULLION
VENT / VENT

HORIZONTAL JOINING MULLION
TRANSOM / VENT

VERTICAL JOINING MULLION
VENT / FIXED

All dimensions are approximate. See www.Pella.com for mullion limitations and reinforcing requirements.

Scale 3" = 1' 0"
These drawings are based on our interpretation of the information provided to us. They are submitted for final approval of the individual responsible for the project and are not intended to create any warranty or other liability. The user is responsible for compliance with applicable building codes or other regulations and determining the suitability of the suggestions for the particular application, including the final design of reinforcement, flashing, and sealant systems for all window and door installations.

** building owner, architect, contractor, installer and/or consumer

** Quote Name: Buell Building - Support Products  
Project Name: Ron - Buell Building

Jobsite Location: ,  
Room Location: 206  
Sales Branch Location: 23300 Heartland Pella

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Customer Approval Form:  
Signature: ___________________________ Date: _______________
Customer Approval Form:

Signature: __________________________ Date: __________________________

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Quote Name: Buell Building - Support Products    Project Name: Ron - Buell Building

Jobsite Location: ,

Room Location: 208

Sales Branch Location: 23300    Heartland Pella

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Viewed from the Exterior

Quote Number: 13776841
Line Number: 690    Quote Qty: 1    Scaling: 1/2" = 1'

Description: Lifestyle, Awning, Lifestyle, Sash Set, 45 X 85, Without HGP, Tan

Rough Opening: 45.75" X 85.75"

Performance Information: U-Factor 0.25, SHGC 0.22, VLT 0.41, CPD PEL-N-246-00101-00003, Performance Class CW, PG 40, Calculated Positive DP Rating 40, Calculated Negative DP Rating 40, Year Rated 08|11, Egress Not Applicable

Performance Information: U-Factor 0.28, SHGC 0.31, VLT 0.58, CPD PEL-N-22-00624-00002, Performance Class LC, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, Year Rated 11

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Upper window is Fixed Non Operable

(Units over 35" wide)
Lower window cranks out with Hinges on top

Printed On: 3/23/2021
Existing Window Frames to remain

Existing Transoms to remain

Sashes = the operable parts of the window. The Sashes will be removed and a new window will be inserted inside the original window frame. leaving all exterior / interior Trim

Rot to be removed & discarded
The Tan Section is the only section to be removed and replaced = Sashes ONLY
Typical Jamb Condition
Typical Jamb Condition
This is for example only: This is Lead (SD) High School, these windows are a similar configurations with a crank out window below a fixed non-operable window. The idea was to simulate a historic "Double Hung Window" These windows did utilize a full frame replacement, so the install and finished look will be entirely different. The configuration and style of window would be very similar to the proposed window style and configuration enclosed.