

## Section 08 52 13

### Series 4000 FoldUp™ Inline Windows

#### Part 1: General

- I. Section Includes
  - A. Series 4000 all-wood FoldUp™ Inline and Fixed windows, inward or outward swinging, complete with hardware, glazing, insect screen, simulated divided lite, and jamb extensions
  
- II. References
  - A. American Society for Testing Materials (ASTM):
    - 1. E283: Standard Test method for Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors
    - 2. E330: Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls and Door by Uniform Static Air Pressure Difference
    - 3. E547: Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Cyclic Static Air Pressure Differential
    - 4. E2190: Specification for Sealed Insulated Glass Units
    - 5. C1036: Standard Specification for Flat Glass
    - 6. E2068: Standard Test Method for Determination of Operating Force of Sliding Windows and Doors
  - B. American Architectural Manufacturer's Association/Window and Door Manufacturer's Association (AAMA/WDMA/CSA):
    - 1. AAMA/WDMA/CSA 101/I.S.2/A440-08, Standard/Specification for windows, doors and skylights
    - 2. AAMA/WDMA/CSA 101/I.S.2/A440-11, Standard/Specification for windows, doors and skylights
  - C. Sealed Insulating Glass Manufacturer's Association/Insulating Glass Certification Council (SIGMA/IGCC)
  - D. National Fenestration Rating Council (NFRC):
    - 1. 101: Procedure for Determining Fenestration Product thermal Properties
    - 2. 200: Procedure for Determining Solar Heat Gain Coefficients at Normal Incidence
  
- III. Submittals

- A. Shop Drawings: Submit shop drawings as required by architect
  - B. Samples: Submit samples if required by architect or owner
  - C. Quality Control Submittals: Submit manufacturer's certification indicating compliance with specified performance and design requirements
- IV. Delivery
- A. Deliver in original packaging and protect from weather
- V. Storage and Handling
- A. Prime and seal wood surfaces, including to be concealed by wall construction, if more than thirty (15) days will expire between delivery and installation
  - B. Store window units in an upright position in a clean and dry storage area above ground to protect from weather
- VI. Warranty
- A. Complete and current warranty information is available from manufacturer and is subject to the terms, condition, limitations and exclusions set forth in the Rochester Colonial's Windows and Door Limited Warranty.

## **Part 2: Products**

- VII. Manufactured Units
- A. Description: FoldUp – Series 4000 FoldUp+In Inline as manufactured by Rochester Colonial Mfg.Corp., Rochester, NY
  - B. Description: Double Hung – Series 4000 FoldUp+Out Inline as manufactured by Rochester Colonial Mfg.Corp., Rochester, NY
  - C. Description: Series 4000 Fixed In-Sash as manufactured by Rochester Colonial Mfg.Corp., Rochester, NY
- VIII. Frame Description
- A. Interior & Exterior: Non finger-jointed solid wood (Spanish cedar, genuine mahogany, or other species approved by manufacturer)
    - 1. Kiln-dried to moisture content no greater than 8 percent at the time of fabrication
  - B. Frame depth: 4 9/16" jamb minimum, jamb extensions available

C. Wood sill: Non finger-jointed solid wood (Spanish cedar, genuine mahogany, or other species approved by manufacturer) – OR - No Sill for countertop applications. Please specify countertop thickness.

IX. Sash Description

A. Interior & Exterior: Non finger-jointed solid wood (Spanish cedar, genuine mahogany, or other species approved by manufacturer)

1. Kiln-dried to moisture content no greater than 8 percent at the time of fabrication

B. Sash thickness: 1 3/4".

C. Exterior Cope Profile: Putty (typical)

D. Interior Sash Sticking: Ogee (typical – see manufacturer for other options)

X. Glazing

A. Select quality complying with ASTM C1036. Insulating glass SIGMA/IGCC certified to performance level CBA when tested in accordance with ASTM E2190.

B. Glazing method: Insulating glass or single glass

C. Glazing seal: Silicone bedding on interior and exterior

D. Glass Type: Tempered in both upper and lower sash, Clear/Low E on surface 2 with minimum 90% Argon gas fill or other options as specified by architect or local codes, and approved by manufacturer

XI. Finish

A. Exterior (options):

1. Bare wood, hand sanded to at least 150 grit, (or add optional oil based stain and clear coat with Zar Ultraviolet oil based Polyurethane)

2. Primed with two coats water based primer, sanded between coats 150 grit, allow final coat to dry 4 hours before final coat

3. Primed as above and then painted two with Richards Excel DTM Industrial Semi-Gloss Enamel (or other options as specified by architect and approved by manufacturer), sanded with 220 grit between coats,

B. Interior Finish options:

1. Bare wood, hand sanded to at least 150 grit, (or add optional oil based stain and clear coat with Zar Ultraviolet oil based Polyurethane)

2. Primed with two coats water based primer, sanded between coats 150 grit, allow final coat to dry 4 hours before final coat
3. Primed as above and then painted two with Richards Excel DTM Industrial Semi-Gloss Enamel (or other options as specified by architect and approved by manufacturer), sanded with 220 grit between coats,

XII. Hardware

- A. Two flush mounted stainless steel sliding lock bolts (one right, one left) at meeting rail to secure to window jamb. Choice of brushed nickel, black, or chrome finish.
- B. Interior and Exterior Hinges – powder coated extruded aircraft-grade aluminum with stainless steel pins
- C. Balance System - Proprietary constant force balance system with stainless steel springs, HDPE case, and Acetal shoe connected to stainless steel pivot pin

XIII. Jamb Extension

- A. Jamb extensions are available for various wall thickness factory-applied up to a 10" wide
- B. Finish: Match interior frame finish

XIV. Insect Screen

- A. (For *inward* swinging units) – Optional factory-installed full fixed screen with wood or aluminum frame (please specify)
  1. Screen Mesh: Fiberglass, aluminum, or bronze (wood frame only) mesh in standard finishes. Aluminum frames available in 10 standard colors.
- B. (For *outward* swinging units): Optional manual or motorized roll screens. Size limits may apply
  1. Fiberglass screen only in standard colors

XV. Simulated Divided Lites (SDL)

- A. 5/8", 3/4", 7/8", or 1-1/8" or other width as may be available from the manufacturer
- B. Muntin material: solid wood
- C. Interior muntins:
- D. Muntins adhere to glass with closed-cell copolymer acrylic foam tape
- E. Exterior sticking: "Putty" profile

- F. Interior Sticking: See manufacturer's options
- G. Patterns: Various rectangular patterns as specified by architect
- H. Finish – match interior and exterior finishes as stated above

### **Part 3: Execution**

#### XVI. Examination

- A. Verification of Condition: Before installation, verify openings are plumb, square and of proper dimensions. Report frame defects or unsuitable conditions to the General contractor before proceeding.
- B. Acceptance of Condition: Beginning on installation confirms acceptance of existing conditions.

#### XVII. Installation

- A. Assemble and install window/door unit(s) according to manufacturer's instruction and reviewed shop drawing. Shim window so that sashes move freely up and down. Utilize Simpson Strong Tie #A-23 "L" brackets or equivalent for installation.
- B. Install sealant and related backing materials at perimeter of unit..
- C. Use finish nails to apply wood trim and mouldings. Apply sealant between trim and frame.

#### XVIII. Cleaning

- A. Remove visible labels and adhesive residue according to manufacturer's instruction.
- B. Leave windows and glass in a clean condition.

#### XIX. Protecting Installed Construction

- A. Protect windows from damage by chemicals, solvents, paint or other construction operations that may cause damage.

End of Section