

Section 085200 – Wood Windows

Part 1 – GENERAL

1.1 SUMMARY

A. This Section includes fabrication of exterior wood-framed windows.

- or -

B. Replication of wood sash

1.2 RELATED SECTIONS

A. Section “ Sealants ”

B. Section “ Glass and Glazing ”

1.3 SUBMITTALS

A. Product Data: For each type of wood window indicated.

B. Shop Drawings: Includes plans, elevations, sections, details such as stools, sills, jambs, and stops. Samples if requested.

1.4 Quality Assurance

A. Installer: A qualified installer, approved by the manufacturer to install manufacturer’s product.

B. Glazing Publications: Comply with published recommendations of glass manufacturers and with GANA’s “Glazing Manual” unless more stringent requirements are indicated.

C. Carpenters and finishers must be skilled craftsmen with proven experience in their respective trades.

D. Mockups: Mockups may be available to verify selections made under sample submittals and to demonstrate aesthetic and set quality standards for materials and execution.

E. Approved Storage: Contractor must have sufficient storage space to properly store windows with exposure to unusual environmental conditions that vary significantly from in-place conditions. Windows shall not be placed in exposure to excessively wet, humid, or dry conditions, nor where there is any risk of being in standing water or in leaky roof conditions. Architect shall be allowed an inspection and approval of storage location and conditions.

1.5 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace wood windows that fail in materials or workmanship within the specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Failure to meet performance requirements.
 - b. Structural failures including excessive deflections, water leakage, air infiltration, or condensation.
 - c. Faulty operation of movable sash and hardware.
 - d. Deterioration of wood, metals, other materials, and finishes beyond normal weathering.
 - e. Failure of insulating glass.
 - 2. Warranty Period
 - a. Window: Two years from date of substantial completion
 - b. Glazing: Five years from date of substantial completion

Part 2 – Products

2.1 Manufacturers

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1.) Adam's Architectural Millwork Co., Dubuque, IA

2.2 Materials

- A. Wood: Clear pine or another suitable fine-grained lumber, kiln dried to a moisture content of 6 to 12 percent at of fabrication: free of finger joints, blue stain, knots, pitch pockets, and surface checks larger than 1/32 inch (0.8 mm) deep by 2 inches (51 mm) wide.
- B. All wood is preservative treated to meet AWI 100-S-4 (NWWDA IS 4-8)
- C. Wood trim and glazing stops: Material and finish to match frame members

2.3 Window

- A. Window Type: As indicated on Drawing.
- B. Comply with AWI's "Arcitatural Woodwork Quality Standards," and with other requirements specified.

2.4 Glazing

A. Glass: Clear, single-pane glass units to be putty glazed. - OR -

Option: Insulated Glass

Glazing shall be 5/8" thick insulated unit of 1/8" thick, clear annealed glass with low-e coating on the third surface. Fabricate insulated units of tempered glass where required by code. Divided lite sash units shall have individual lites to be separated by wood muntins. Option: Performance Divided Lites made of aluminum to replicate the thickness of original muntin bar.

B. Glazing System: Manufacturer's standard factory-glazing system that produces weather tight seal.

2.5 Muntins

A. Muntins: Provide tru-divided lites in designs indicated for each sash lite on Drawings.

1. Material: Primed Wood

Option: Performance Divided Lites on insulated glass to replicate thickness of muntin bar.

2. Design: Adams Architectural standard profile

Option: Match existing (replicate)

2.6 Hardware

A. General: Provide hardware matching original window hardware in type, size, and appearance; fabricated from stainless steel, carbon steel complying with AAMA 907, or other corrosion-resistant material compatible with wood; designed to smoothly operate, tightly close, and securely lock wood windows, and sized to accommodate sash weight and dimensions. Where exposed, metal finish to match original hardware finish.

B. Sash Lock: Acceptable manufacturer includes, but is not limited to:

1. Name Manufacturer of Hardware

C. Sash Spring Bolt

1. Name Manufacturer of Hardware

2.7 Fabrication

- A. Fabricate wood windows that are reglazable without dismantling sash or ventilator framing.
 - B. Weather Stripping: Provide new window units with zinc weather-stripping. Provide new sash sets set up to receive new zinc weather-stripping. Provide corresponding zinc weather-stripping (to be installed by carpentry contractor) for those existing frames to receive new sash sets. Single fin Q-lon along top, bottom, and check (meeting) rails.
 - C. Factory machine windows for openings and for hardware that is not surface applied.
 - D. Glue: Titebond 2 Premium Wood Glue, exterior grade, weather – resistant, ideal for exterior applications
 - E. Mullions: Provide mullions and cover plates as shown, matching window units, complete with anchors for support to structure and installation of window units. Allow for erection tolerances and provide for movement of window units due to thermal expansion and building deflections as indicated. Provide mullions and cover plates capable of withstanding design loads of window units.
 - F. Glazing Stops: Provide nailed or snap-on glazing stops on the interior of the window sash coordinated with Section “Glazing” and glazing system indicated. Provide glazing stops to match sash and ventilator frames.
 - G. Balance System:
 - OPTIONS***
 - 1. Weight & Pulley system
 - 2. Vinyl Jambliner with block and tackle
 - 3. Concealed block and tack balance system.
 - 4. Pulman system
 - 5. Spiral Balance system
- 2.8 Shop Priming
- A. Sherwin Williams Sher-Wood 2400 Millwork Primer. Prime should be top coated as soon as possible, maximum 30 days.
 - B. Shop prime surfaces of sash, frames, and brick mould as specified with high quality Latex primer. Back prime.
 - C. Finish coats of paint not offered be manufacturer. Will be offered through general contractors painting contractor.

Part 3 – EXECUTION

3.1 Installation

- A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing windows, hardware, accessories, and other components.
- B. Install windows level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.
- C. Set all members in bed of sealant or with gaskets, as indicated, for weather tight construction.
- D. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.
- E. Adjust operating sashes and ventilators, screens, hardware, and accessories for a tight fit at contact points and weather stripping for smooth operation and weather tight closure. Lubricate hardware and moving parts.
- F. Clean exposed surfaces immediately after installing windows. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.
- G. Clean factory-glazed glass immediately after installing windows. Comply with manufacturer's written recommendations for final cleaning and maintenance. Remove non-permanent labels, and clean surfaces.
- H. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

End Section 085200