

SECTION 08550 - WOOD WINDOWS

PART 1 - GENERAL

SUMMARY

This Section includes the following aluminum-clad wood-framed window product types:

Double hung windows

See Division 8 Section "Glazing" for glazing requirements for wood windows, including those specified to be factory glazed.

PERFORMANCE REQUIREMENTS

General: Provide wood windows capable of complying with performance requirements indicated, based on testing manufacturer's windows that are representative of those specified and that are of minimum test size required by AAMA/NWWDA 101/I.S.2.

AAMA/NWWDA Performance Requirements: Provide wood windows of the performance class and grade indicated that comply with AAMA/NWWDA 101/I.S.2.

Performance Class: LC.
Performance Grade: 40.

Exception to AAMA/NWWDA 101/I.S.2: In addition to requirements for performance class and performance grade, design glass framing system to limit lateral deflections of glass edges to less than 1/175 of glass-edge length[or 3/4 inch (19 mm), whichever is less,] at design pressure based on testing performed according to AAMA/NWWDA 101/I.S.2, Uniform Load Deflection Test or structural computations.

Thermal Transmittance: Provide wood windows with a whole-window U-value maximum of 0.34 at 15-mph (24-km/h) exterior wind velocity and winter condition temperatures when tested according to NRFC 100.

Specific Product Performance Requirements: Comply with Section 2.2 of AAMA/NWWDA 101/I.S.2 as applicable to types of wood windows indicated.

QUALITY ASSURANCE

Fenestration Standard: Comply with AAMA/NWWDA 101/I.S.2, "Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors," for minimum standards of performance, materials, components, accessories, and fabrication unless more stringent requirements are indicated.

Glazing Publications: Comply with published recommendations of glass manufacturers and GANA's "Glazing Manual" unless more stringent requirements are indicated.

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WARRANTY

Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace wood windows that fail in materials and workmanship within two years from date of Substantial Completion.

Warranty Period for Metal Finishes: Five years from date of Substantial Completion.

Warranty Period for Glass: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

MANUFACTURERS

Manufacturers: Subject to compliance with requirements, provide products by one of the following:
Eagle Window & Door, Inc.; an American Architectural Products Corporation Company.
Hurd Millwork Co.
Kolbe & Kolbe Millwork Co., Inc.
Marvin Windows and Doors.
Pella Corporation.

MATERIALS, GENERAL

Aluminum Extrusions and Rolled Aluminum for Cladding, High-Performance Organic Finish: Two-coat thermocured system with fluoropolymer coats containing not less than 70 percent polyvinylidene fluoride resin by weight; complying with AAMA 2604.

Color and Gloss: As selected from manufacturer's full range.

GLAZING

Glass: Clear, insulating-glass with low-e coating or film, argon-gas filled.

Glazing System: Manufacturer's standard factory-glazing system that produces weathertight seal.

INSECT SCREENS

General: Design windows and hardware to accommodate screens in a tight-fitting, removable arrangement, with a minimum of exposed fasteners and latches. Locate screens on inside of window and provide for each operable exterior sash or ventilator.

Aluminum Tubular Frame Screens: Comply with SMA 1004, "Specifications for Aluminum Tubular Frame Screens for Windows," Residential R-20 class.

Aluminum Insect Screen Frames: Manufacturer's standard aluminum alloy complying with SMA 1004. Fabricate frames with mitered or coped joints, concealed fasteners, and removable PVC spline/anchor concealing edge of frame.

Aluminum Tubular Framing Sections and Cross Braces: Roll formed from aluminum sheet with minimum wall thickness as required for class indicated.

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Finish: Manufacturer's standard.

Aluminum Wire Fabric: 18-by-16 (1.1-by-1.3-mm) mesh of 0.011-inch- (0.28-mm-) diameter, coated aluminum wire.

Wire-Fabric Finish: Charcoal gray.

FABRICATION

General: Fabricate wood windows, in sizes indicated, that comply with AAMA/NWWDA 101/I.S.2 for performance class and performance grade indicated. Include a complete system for assembling components and anchoring windows.

Fabricate wood windows that are reglazable without dismantling sash or ventilator framing.

Weather Stripping: Provide full-perimeter weather stripping for each operable sash and ventilator, unless otherwise indicated.

Factory machine windows for openings and hardware that is not surface applied.

PART 3 - EXECUTION

INSTALLATION

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.

Set sill members in bed of sealant or with gaskets, as indicated, for weathertight construction.

Metal Protection: Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials by complying with requirements specified in "Dissimilar Materials" Paragraph in Appendix B in AAMA/NWWDA 101/I.S.2.

Adjust operating sashes and ventilators, screens, hardware, and accessories for a tight fit at contact points and weather stripping for smooth operation and weathertight closure. Lubricate hardware and moving parts.

Protect window surfaces from contact with contaminating substances resulting from construction operations. In addition, monitor window surfaces adjacent to and below exterior concrete and masonry surfaces during construction for presence of dirt, scum, alkaline deposits, stains, or other contaminants. If contaminating substances do contact window surfaces, remove contaminants immediately according to manufacturer's written recommendations.

Clean exposed surfaces immediately after installing windows. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.

Clean factory-glazed glass immediately after installing windows. Comply with manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels and clean surfaces.

Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

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END OF SECTION 08550