SECTION 08 14 00

WOOD DOORS

(ANDERSEN® ARCHITECTURAL HINGED INSWING AND OUTSWING WOOD DOORS, SIDELIGHTS AND TRANSOMS)

PART 1 - GENERAL

SPECIFIER NOTE: DATA CONTAINED IN THIS GUIDE SPEC IS ACCURATE AS OF JANUARY 2007. DUE TO ONGOING PRODUCT CHANGES, THIS DATA MAY CHANGE OVER TIME. CONSULT MANUFACTURER FOR COMPLETE PRODUCT DETAILS.

1.1 SUMMARY

A. Section Includes:

SPECIFIER NOTE: RETAIN PROJECT-REQUIRED ITEMS TYPE BELOW. DELETE ITEMS NOT REQUIRED.

1. Inswing Wood Doors.
2. Outswing Wood Doors.
3. Sidelights.
4. Transoms.

SPECIFIER NOTE: ARTICLE BELOW SHOULD BE RESTRICTED TO STATEMENTS DESCRIBING DESIGN OF PERFORMANCE REQUIREMENTS AND FUNCTIONAL (NOT DIMENSIONAL) TOLERANCES OF A COMPLETE SYSTEM. LIMIT DESCRIPTIONS FOR COMPOSITE AND OPERATIONAL PROPERTIES REQUIRED TO LINK COMPONENTS OF A SYSTEM TOGETHER AND TO INTERFACE WITH OTHER SYSTEMS.

1.2 SYSTEM DESCRIPTION

SPECIFIER NOTE: MANUFACTURER RECOMMENDS REFERRING TO WEBSITE FOR MOST CURRENT PRODUCT PERFORMANCE DATA. RETAIN, EDIT, OR DELETE LANGUAGE BELOW TO SUIT PROJECT REQUIREMENTS. REFER TO WWW.ANDERSENWINDOWS.COM FOR PERFORMANCE INFORMATION.

A. Performance Requirements: Provide products/systems that have been manufactured, fabricated, and installed to the following performance criteria:
   1. Comply with ANSI/AAMA/NWWDA 101/I.S.2.
   2. Performance Class: <Specify performance class.>.
   3. Performance Grade: <Specify performance grade.>
   4. U-Factor (NFRC 100): <Specify U-Factor.>
   5. Solar Heat Gain Coefficient (SHGC) (NFRC 200): <Specify SHGC.>

SPECIFIER NOTE: ARTICLE BELOW INCLUDES SUBMITTAL OF RELEVANT DATA TO BE FURNISHED BY CONTRACTOR BEFORE, DURING OR AFTER CONSTRUCTION. COORDINATE THIS ARTICLE WITH THE ARCHITECT'S AND CONTRACTOR'S DUTIES AND RESPONSIBILITIES IN CONDITIONS OF THE CONTRACT AND DIVISION 01 SUBMITTAL PROCEDURES SECTION.

1.3 SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 01 Submittal Procedures Section.

B. Product Data: Submit manufacturer's product data and installation guides.

C. Shop Drawings: Provide drawings indicating direction of operable parts, typical jamb, head and sill conditions, and special mullion reinforcement details.

D. Color Samples: Submit selection and verification samples, including the following:
   1. Hardware: Submit samples indicating typical finish on window hardware.
   2. Cladding: Submit color Samples of aluminum cladding.

E. Quality Assurance/Control Submittals: Submit the following:
   1. Performance Data: Provide manufacturer's published performance data for specified products.

F. Contract Closeout Submittals: Submit the following:
   1. Warranty documents specified herein.
   2. Owner's Manual: Bound manual clearly identified with project name, location, and completion date. Identify type and size of units installed. Provide recommendations for periodic inspections, care, and maintenance. Identify common causes of damage with instructions for temporary repair.

SPECIFIER NOTE: ARTICLE BELOW SHOULD INCLUDE STATEMENTS OF PREREQUISITES, STANDARDS, LIMITATIONS AND CRITERIA THAT ESTABLISH AN OVERALL LEVEL OF QUALITY FOR PRODUCTS AND WORKMANSHIP FOR THIS SECTION. COORDINATE ARTICLE BELOW WITH DIVISION 01 QUALITY ASSURANCE SECTION.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity.

SPECIFIER NOTE: PARAGRAPH BELOW SHOULD LIST OBLIGATIONS FOR COMPLIANCE WITH SPECIFIC CODE REQUIREMENTS PARTICULAR TO THIS SECTION. GENERAL STATEMENTS TO COMPLY WITH A PARTICULAR CODE ARE TYPICALLY ADDRESSED IN CONDITIONS OF THE CONTRACT AND DIVISION 01 REGULATORY REQUIREMENTS SECTIONS. REPETITIVE STATEMENTS SHOULD BE AVOIDED.

B. Regulatory Requirements and Approvals: <Specify applicable requirements of regulatory agencies.>

C. Certifications:
   1. Insulating Glass Units: Provide insulating glass units permanently marked with certification label of Insulating Glass Certification Council (IGCC) indicating compliance.

SPECIFIER NOTE: RETAIN CERTIFICATION LABEL REQUIREMENTS PARAGRAPH ABOVE OR BELOW.

   2. Insulating Glass Units: Provide insulating glass units permanently marked with certification label of Insulating Glass Manufacturers Association of Canada (IGMAC) indicating compliance with CAN/CGSB or ASTM E2190.

SPECIFIER NOTE: RETAIN PARAGRAPH BELOW IF PREINSTALLATION MEETING IS REQUIRED.

D. Preinstallation Meetings: <Specify requirements for preinstallation meeting.>

SPECIFIER NOTE: ARTICLE BELOW SHOULD INCLUDE SPECIFIC PROTECTION AND ENVIRONMENTAL CONDITIONS REQUIRED DURING STORAGE. COORDINATE ARTICLE BELOW WITH DIVISION 01 PRODUCT REQUIREMENTS SECTION.

1.5 DELIVERY, STORAGE, AND HANDLING

A. General: Comply with Division 01 Product Requirements Section.

B. Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.

C. Delivery: Deliver materials in manufacturer's original unopened, undamaged containers with identification labels intact.

D. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

E. Store materials and accessories off ground, under cover, and protected from weather and construction activities.

SPECIFIER NOTE: IN ARTICLE BELOW, STATE PHYSICAL OR ENVIRONMENTAL LIMITATIONS OR CRITERIA FOR INSTALLATION SUCH AS WEATHER, TEMPERATURE, HUMIDITY, VENTILATION OR ILLUMINATION REQUIRED FOR PROPER INSTALLATION OR APPLICATION.

1.6 PROJECT/SITE CONDITIONS

A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication. Record measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

B. Install units in accordance with manufacturer's safety and weather requirements.

SPECIFIER NOTE: COORDINATE ARTICLE BELOW WITH CONDITIONS OF THE CONTRACT AND WITH DIVISION 01 CLOSEOUT SUBMITTALS (WARRANTY) SECTION. USE THIS ARTICLE TO REQUIRE SPECIAL OR EXTENDED WARRANTY OR BOND COVERING THE WORK OF THIS SECTION.

1.7 WARRANTY

A. Project Warranty: Refer to Conditions of the Contract for project Warranty provisions.

SPECIFIER NOTE: COORDINATE ARTICLE BELOW WITH MANUFACTURER'S WARRANTY REQUIREMENTS. VISIT THE ANDERSEN WEBSITE FOR A COMPLETE DESCRIPTION OF THE STANDARD LIMITED WARRANTY INCLUDING EXCLUSIONS AND LIMITATIONS.

B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard limited warranty document. Manufacturer's limited warranty is in addition to, and not a limitation of, other rights Owner may have under contract documents.

PART 2 - PRODUCTS

SPECIFIER NOTE: RETAIN ARTICLE BELOW FOR PROPRIETARY METHOD SPECIFICATION. ADD PRODUCT ATTRIBUTES, PERFORMANCE CHARACTERISTICS, MATERIAL STANDARDS, AND DESCRIPTIONS AS APPLICABLE. USE OF SUCH PHRASES AS "OR EQUAL" OR "OR APPROVED EQUAL" OR SIMILAR PHRASES MAY CAUSE AMBIGUITY IN SPECIFICATIONS. SUCH PHRASES REQUIRE VERIFICATION (PROCEDURAL, LEGAL AND REGULATORY) AND ASSIGNMENT OF RESPONSIBILITY FOR DETERMINING "OR EQUAL" PRODUCTS.

2.1 MANUFACTURER

A. Provide products from the following manufacturer:
   1. Andersen Windows, Inc.
   2. 100 4th Ave. N.
   3. Bayport, MN 55003-1096.
   4. Phone: (800) 299-9029.
   5. Fax: (800) 752-9230.
   6. E-mail: technicalsupport@andersenwindows.com.

7. www.andersenwindows.com.
8. Local Contact: <Specify contact information provided by local Andersen representative.>

2.2 MANUFACTURED UNITS

A. Proprietary Products/Systems. Wood windows, including the following:
1. Andersen® Architectural Hinged Inswing and Outswing Wood Doors, Sidelights, and Transoms.

SPECIFIER NOTE: EDIT ARTICLE BELOW TO SUIT PROJECT REQUIREMENTS. IF SUBSTITUTIONS ARE PERMITTED, EDIT TEXT BELOW. ADD TEST TO REFER TO DIVISION 01 PROJECT REQUIREMENTS (PRODUCT SUBSTITUTIONS PROCEDURES) SECTION.

2. Substitutions: No substitutions permitted.

SPECIFIER NOTE: SPECIFY MATERIALS TO BE FURNISHED. THIS ARTICLE MAY BE OMITTED AND THE MATERIALS CAN BE INCLUDED WITH THE DESCRIPTION OF A MANUFACTURED UNIT, EQUIPMENT, COMPONENT, OR ACCESSORY.

2.3 MATERIALS

A. Frame and Panel Members: Fabricated from wood species approved in WDMA Industry Standard I.S.4 and treated with a water-repellent wood preservative.

B. Provide silicone glazing bead on glazed panels.

C. Heavy-duty, 0.050 inch (1.27 mm) thick extruded aluminum cladding over frame exterior and panel.

D. Aluminum Cladding: Extruded 6063-T5 aluminum exterior cladding with finish per AAMA 2605 standard over wood frames fabricated from the following species, with primed exterior.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED COLOR BELOW. DELETE COLORS NOT REQUIRED.

1. Cladding Color: White.
2. Cladding Color: Sandtone.
3. Cladding Color: Terratone®.
4. Cladding Color: Forest Green.

E. Weatherstripping:
1. Continuous flexible compressible bulb type with welded corners.
2. Flexible vinyl sweep at bottom of inswing panels.
3. Polypropylene rain skirt at sides and top of outswing panels.

F. Fastener Covers: Aluminum extrusion with coating complying with AAMA 2605.

G. Sill: Extruded aluminum in the following finish, with fixed hardwood threshold on inswing and outswing doors.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED COLOR BELOW. DELETE COLORS NOT REQUIRED.

1. Color: Mill.
2. Color: Dark Bronze.
3. Color: Bright Brass.

2.4 GLAZING

A. General: Tempered insulating glass units certified through the Insulating Glass Certification Council as conforming to the requirements of IGCC. Provide dual sealed units consisting of silicone foam spacer with hot butyl seal.

SPECIFIER NOTE: RETAIN CERTIFICATION REQUIREMENTS PARAGRAPH ABOVE OR BELOW.

B. General: Tempered insulating glass units certified through the Insulating Glass Manufacturers Association of Canada (IGMAC) conforming to the requirements of Canadian General Standards Board CAN/CGSB 12.8 or ASTM E2190. Provide dual sealed units consisting of silicone foam spacer with hot butyl seal.

SPECIFIER NOTE: SELECT BETWEEN THE FOLLOWING STANDARD GLAZING OPTIONS FOR ARCHITECTURAL DOORS. CONSULT ANDERSEN CORPORATION FOR ADDITIONAL GLAZING OPTIONS INCLUDING PATTERNED GLASS. IN ADDITION TO COMPLYING WITH SAFETY GLAZING REQUIREMENTS, TEMPERED GLASS MAY BE REQUIRED BECAUSE OF WINDOW SIZE AND WIND LOAD. CONSULT ANDERSEN CORPORATION FOR ASSISTANCE IN SELECTING APPROPRIATE GLAZING TYPE. MONOLITHIC IMPACT GLAZING IS TESTED TO MIAMI-DADE PROTOCOL; CONTACT A LOCAL REPRESENTATIVE FOR ADDITIONAL INFORMATION.

C. Dual Pane Insulating Tempered Glass Units: Insulating glass units consisting of 2 lites of clear, tempered glass conforming to ASTM C1048, Type 1, Class 1, q3, Kind FT where indicted on Drawings and as required by window manufacturer.

D. High-Performance™ Low-E4™ Glass, Argon Filled Insulating Glass Units:
   1. Glass: Tempered insulating glass units consisting of an outboard and inboard lite of clear tempered glass conforming to ASTM C1048, Type 1, Class 1, q3, Kind FT.
   2. Magnetron sputtering vapor deposition (MSVD) TiO2 coating applied to the No. 1 surface.
   3. High-Performance™ Low-E4™ Coating: Magnetron sputtering vapor deposition (MSVD) Low-E coating applied to the No. 2 surface.
   4. Filling: Fill space between glass lites with argon gas blend.

E. High-Performance™ Low-E4™ Sun Glass, Low SHGC, Argon Filled Insulating Glass Units:
   1. Glass: Tempered insulating glass units consisting of an outboard and inboard lite of clear tempered glass conforming to ASTM C1048, Type 1, Class 1, q3, Kind FT.
   2. Magnetron sputtering vapor deposition (MSVD) TiO2 coating applied to the No. 1 surface.
   3. High-Performance™ Low-E4™ Sun Glass Coating: Magnetron sputtering vapor deposition (MSVD) Low-E coating applied to the No. 2 surface.
   4. Filling: Fill space between glass lites with argon gas blend.

2.5 HARDWARE

A. Hinges: Plain bearing style hinge with zinc dichromate finish.

SPECIFIER NOTE: SELECT BETWEEN HINGE OPTION ABOVE AND BELOW. PLAIN BEARING STYLE HINGE PROVIDED AS STANDARD.

B. Hinges: Ball bearing style hinge with the following finish:

SPECIFIER NOTE: RETAIN PROJECT REQUIRED COLOR BELOW. DELETE COLORS NOT REQUIRED.

   1. Finish: Polished Brass.
   2. Finish: White.
   3. Finish: Stainless Steel.
   4. Finish: Dark Bronze.

C. Locks: Multipoint locking hardware as selected by Architect from manufacturer's standard offering and finishes.

2.6 ACCESSORIES

SPECIFIER NOTE: CONSULT SPECIFICATIONS OF ADJACENT UNIT GRILLE OPTIONS FOR JOINED UNITS OF DIFFERENT TYPES. CONSULT ANDERSEN CORPORATION FOR ADDITIONAL GRILLE OPTIONS AND CUSTOM PATTERN DESIGNS.

A. Interior Grilles: Provide removable grilles where indicated on Drawings. Install removable grilles against interior glass, clipping onto metal fasteners attached to panel. Provide dual face profile for muntin bar appearance from interior and exterior, complying with the following:

SPECIFIER NOTE: RETAIN PROJECT REQUIRED EXTERIOR FACING SUBPARAGRAPH BELOW AND DELETE SUBPARAGRAPHS NOT REQUIRED.

1. Exterior Facing: White painted finish.
2. Exterior Facing: Sandtone color painted finish.
3. Exterior Facing: Terratone® color painted finish.
4. Exterior Facing: Forest Green color painted finish.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED INTERIOR FACING SUBPARAGRAPH BELOW AND DELETE SUBPARAGRAPHS NOT REQUIRED.

5. Interior Facing: Unfinished Maple.
6. Interior Facing: Unfinished Pine.
7. Interior Facing: Unfinished Oak.
8. Interior Facing: Unfinished Mahogany.
9. Interior Facing: Unfinished Cherry.
10. Interior Facing: Unfinished Alder.
11. Interior Facing: Unfinished Fir.
12. Interior Facing: White painted finish.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED GRILLE WIDTH SUBPARAGRAPH BELOW AND DELETE SUBPARAGRAPHS NOT REQUIRED.

13. Grille Width: 3/4 inch (19.1 mm) wide.
14. Grille Width: 7/8 inch (22.2 mm) wide.
15. Grille Width: 1-1/8 inches (29 mm) wide.
16. Grille Width: 2-1/4 inches (57 mm) wide.
17. Provide fixed interior grilles where indicated on Drawings. Fixed grilles adhere to interior glass surface with an adhesive tape.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED INTERIOR FACING SUBPARAGRAPH BELOW AND DELETE SUBPARAGRAPHS NOT REQUIRED.

a. Interior Facing: Unfinished Maple.
b. Interior Facing: Unfinished Oak.
c. Interior Facing: White painted finish.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED GRILLE WIDTH SUBPARAGRAPH BELOW AND DELETE SUBPARAGRAPHS NOT REQUIRED.

d. Grille Width: 3/4 inch (19.1 mm) wide.
e. Grille Width: 7/8 inch (22.2 mm) wide.
f. Grille Width: 1-1/8 inches (29 mm) wide.
g. Grille Width: 2-1/4 inches (57 mm) wide.

SPECIFIER NOTE: EXTERIOR GRILLES MUST BE USED IN CONJUNCTION WITH INTERIOR GRILLES.

B. Exterior Grilles: Provide low profile grilles where indicated on the Drawings. Permanently install grilles on exterior glass surface with adhesive tape to simulate true divided light muntin bars.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED EXTERIOR FACING SUBPARAGRAPH BELOW AND DELETE SUBPARAGRAPHS NOT REQUIRED.

1. Color: White painted finish.
2. Color: Sandtone color painted finish.
3. Color: Terratone® color painted finish.
4. Color: Forest Green color painted finish.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED GRILLE WIDTH SUBPARAGRAPH BELOW AND DELETE SUBPARAGRAPHS NOT REQUIRED.

5. Grille Width: 3/4 inch (19.1 mm) wide.
6. Grille Width: 7/8 inch (22.2 mm) wide.
7. Grille Width: 1-1/8 inches (29 mm) wide.
8. Grille Width: 2-1/4 inches (57 mm) wide.
9. Provide high-profile Fibrex® material divided light grilles where indicated on Drawings. Permanently install grilles on exterior of glass to simulate true divided light muntin bars.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED EXTERIOR FACING SUBPARAGRAPH BELOW AND DELETE SUBPARAGRAPHS NOT REQUIRED.

a. Color: White painted finish.
b. Color: Sandtone painted finish.
c. Color: Terratone® painted finish.
d. Color: Forest Green painted finish.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED GRILLE WIDTH SUBPARAGRAPH BELOW AND DELETE SUBPARAGRAPHS NOT REQUIRED.

e. Grille Width: 3/4 inch (19.1 mm) wide.
f. Grille Width: 7/8 inch (22.2 mm) wide.
g. Grille Width: 1-1/8 inches (29 mm) wide.
h. Grille Width: 2-1/4 inches (57 mm) wide.

SPECIFIER NOTE: SPECIFY THE FOLLOWING SPACER BAR FOR SIMULATED FULL DIVIDED LIGHT APPEARANCE.

10. Provide anodized aluminum spacer permanently mounted within the insulating glass unit. Align spacer to grille pattern to simulate full divided light appearance.

SPECIFIER NOTE: FOR FINELIGHT™ GRILLES, ADD THE FOLLOWING.

C. Provide contour profile aluminum muntin bars permanently mounted within insulated glass unit where indicated on Drawings.
   1. Grille Intersections: ABS concealed plastic connectors with nylon end keepers.
   2. Width: 3/4 inch (19.1 mm).

SPECIFIER NOTE: RETAIN REQUIRED WIDTH ABOVE OR BELOW.

   3. Width: 1 inch (25.4 mm).
   4. Color: Match unit exterior color.

D. Extension Jambs: Wood members machined from clear or veneered finger joined material, approved in AAMA/NWWDA 101/I.S.2. Pre-drill extension jambs for application.

E. Exterior Extension Jambs: 6063 aluminum extrusion with screw fastening system. Color to match patio door unit exterior color.
   1. Color: Match patio door unit exterior color.

F. Sill Extender: Aluminum extrusion in the following anodized finish:

SPECIFIER NOTE: RETAIN ONE OF THE FOLLOWING CAMING TYPES BELOW.

1. Finish: Mill finish.
2. Finish: Brass anodized finish.
3. Finish: Bronze anodized finish.

G. Interior Extension Jambs: Solid or veneered wood in the following species and depths:

SPECIFIER NOTE: RETAIN PROJECT REQUIRED SPECIES SUBPARAGRAPH BELOW AND DELETE SUBPARAGRAPHS NOT REQUIRED.

a. Species: Unfinished Maple.
b. Species: Unfinished Pine.
c. Species: Unfinished Oak.
d. Species: Unfinished Mahogany.
e. Species: Unfinished Cherry.
f. Species: Unfinished Alder.
g. Species: Unfinished Fir.
h. Species: Prefinished Pine.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED JAMB WIDTH SUBPARAGRAPH BELOW AND DELETE SUBPARAGRAPHS NOT REQUIRED.

i. Jamb Width: 5-1/4 inch (133 mm) wide.
j. Jamb Width: 6-9/16 inch (167 mm) wide.
k. Jamb Width: 7-1/8 inch (181 mm) wide.

H. Hinged Door Threshold: Provide threshold fabricated from the following species:
1. Species: Oak.

SPECIFIER NOTE: RETAIN SPECIES ABOVE OR BELOW.

2. Species: Mahogany.

I. Hinged Door Insect Screens/Storm Panels: Provide hinged doors with an insect screen/storm panel installed on exterior.
1. Hinged Insect Screen Door Frame for Single Panel and Double Panel Units: Provide hinged insect screen/storm doors complete with hinges, closers, and latches.
2. Insect Screen Cloth: 18 by 16 glass fiber mesh, charcoal finish.
3. Frame Finish: High-bake polyester finish in the following color:

SPECIFIER NOTE: RETAIN PROJECT REQUIRED FRAME FINISH SUBPARAGRAPH BELOW. DELETE SUBPARAGRAPHS NOT REQUIRED.

a. Frame Finish: White.
b. Frame Finish: Sandtone.
c. Frame Finish: Terratone®.
d. Frame Finish: Forest Green finish.
e. Frame Finish: Mahogany.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED COLOR SUBPARAGRAPH BELOW. DELETE COLOR NOT REQUIRED.

f. Closer and Latches: White.
g. Closer and Latches: Black.

SPECIFIER NOTE: CONTACT AN ANDERSEN CORPORATION REPRESENTATIVE FOR DECORATIVE ART GLASS PANEL DESIGN OPTIONS.

J. Decorative Art Glass: Hand-assembled art glass panels sized to match unit glass opening. Decorative art glass panels sandwiched between 2 lites of tempered glass to form a triple insulating unit. Available in the following came finish. Came joints joined with lead-free solder.
   1. Patterns: <Select from standard patterns.>
   2. Background Glass: <Select from standard color palettes.>
   3. Design Glass: <Select from standard color palettes.>

SPECIFIER NOTE: RETAIN ONE OF THE FOLLOWING CAMING TYPES BELOW.

   4. Caming: Antique finish.
   5. Caming: Brass finish.
   6. Caming: Zinc finish.

SPECIFIER NOTE: DESCRIBE ITEMS THAT ARE SHOP MANUFACTURED, FABRICATED, OR ASSEMBLED BEFORE DELIVERY TO THE SITE.

2.7 FABRICATION

A. Preservative Treatment: Treat wood frame members and interior glazing stops after machining with a water repellent preservative in accordance with WDMA I.S.4.

B. Frame Components:
   1. Attach extruded aluminum frame cover to wood frame.
   2. Factory-apply fluropolymer coating (1.5 mil primer and 1.5 mil top coat minimum dry film thickness) to exterior exposed surfaces of aluminum components.

C. Door Panels:
   1. Stiles and Top and Bottom Rails: Finger-jointed and edge glued wood core 1 3/4 inches (44 mm) thick before milling. Provide solid wood edge strips and veneered exterior interior surfaces. Extruded aluminum on aluminum clad doors.
   2. Door Panel Finishes:

SPECIFIER NOTE: RETAIN PROJECT REQUIRED INTERIOR DOOR PANEL FINISH SUBPARAGRAPH BELOW AND DELETE SUBPARAGRAPHS NOT REQUIRED.

      a. Interior Facing: Unfinished Maple.
      b. Interior Facing: Unfinished Pine.
      c. Interior Facing: Unfinished Oak.
      d. Interior Facing: Unfinished Mahogany.
      e. Interior Facing: Unfinished Cherry.
      f. Interior Facing: Unfinished Alder.
      g. Interior Facing: Unfinished Fir.
      h. Interior Facing: White painted finish.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED EXTERIOR FACING SUBPARAGRAPH BELOW AND DELETE SUBPARAGRAPHS NOT REQUIRED.

      i. Exterior Color: White factory applied high durability coating.
      j. Exterior Color: Sandtone color factory applied high durability coating.
      k. Exterior Color: Terratone® color factory applied high durability coating.
      l. Exterior Color: Forest Green color factory applied high durability coating.

D. Corner Fastening:
   1. Door Units: Mortise and tenon joints secured with lag bolts and water-resistant adhesive.

2. Sidelight and Transom Units: Mortise and tenon joints with adhesive and wood screws.

E. Sill: Aluminum extrusion in the following anodized finish. Aluminum sill attached to aluminum clad frame.

SPECIFIER NOTE: RETAIN ONE OF THE FOLLOWING CAMING TYPES BELOW.

1. Finish: Mill.
2. Finish: Brass.
3. Finish: Bronze.

F. Weatherstripping: Factory applied flexible foam type weatherstripping to full perimeter of frame.

G. Glazing: Factory glaze with silicone glazing sealant applied to exterior glazing stops.

PART 3 - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

A. Comply with the instructions and recommendations of unit manufacturer.

SPECIFIER NOTE: SPECIFY ACTIONS TO PHYSICALLY DETERMINE THAT CONDITIONS ARE ACCEPTABLE TO RECEIVE PRIMARY PRODUCTS OF THE SECTION.

3.2 EXAMINATION

A. Site Verification of Conditions: Verify that site conditions are acceptable for installation of units, including the following:
   1. Concrete surfaces are dry and free of excess mortar, rocks, sand, and other construction debris.
   2. Masonry openings are square and dimensions are correct.

SPECIFIER NOTE: RETAIN SUBPARAGRAPH BELOW FOR WOOD FRAMING. RETAIN SUBPARAGRAPH ABOVE FOR MASONRY CONSTRUCTION.

   3. Rough openings are square and dimensions are correct.
   4. Sill plates are level.

SPECIFIER NOTE: DELETE THE FOLLOWING SUBPARAGRAPH IS NO WOOD FRAMING ON PROJECT.

   5. Wood frame walls are dry, clean, sound, and well nailed or glued, free of voids and without offsets at joints.
   6. Nail heads are driven flush with surfaces in openings and within 3 inches (75 mm) of rough opening.

B. Do not proceed with installation of units until unacceptable conditions are corrected.

SPECIFIER NOTE: COORDINATE ARTICLE BELOW WITH MANUFACTURER'S RECOMMENDED INSTALLATION REQUIREMENTS.

3.3 INSTALLATION

A. General:
   1. Remove unit components, parts, accessories, and installation guides from carton.
   2. Inspect unit components and verify that components are not damaged and that parts are included before disposing of carton.

3. Shop-assemble multiple units before installation in accordance with manufacturer's installation guides.

SPECIFIER NOTE: RETAIN SUBPARAGRAPH ABOVE FOR SHOP-ASSEMBLED UNITS. RETAIN SUBPARAGRAPH BELOW FOR FIELD-ASSEMBLED UNITS.

4. Field-assemble multiple units before installation in accordance with manufacturer's installation guides.

B. Interface With Other Work:
1. Perform installation in accordance with Manufacturer's instructions.
2. Install units level, plumb, square, true to line, without distortion, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.
3. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.
4. Install insulation in shim space around unit perimeter to maintain continuity of building insulation. Do not overfill.
5. Hold back exterior siding or other finish materials from edge of unit to allow for expansion and contraction and installation of proper joint sealant with backing materials. Seal perimeter of unit after exterior finish is applied per requirements of Division 07 "Joint Sealants" Section.
6. Finish interior units per requirements specified in related sections. Refer to, and comply with, additional requirements in manufacturer's installation guides.
7. Install optional hardware and unit accessories after cleaning.

SPECIFIER NOTE: SPECIFY ALLOWABLE VARIATIONS BELOW.

C. Site Tolerances:
1. Adjust operation, insect screens, hardware, and accessories for a tight fit at contact points and weatherstripping for smooth operation and weathertight closure.

SPECIFIER NOTE: SPECIFY THE FINAL ACTIONS REQUIRED TO CLEAN INSTALLED EQUIPMENT OR OTHER COMPLETED WORK TO PROPERLY FUNCTION OR PERFORM. COORDINATE ARTICLE BELOW WITH DIVISION 01 EXECUTION REQUIREMENTS (CLEANING) SECTION AND SPECIFIC PROJECT REQUIREMENTS.

3.4 CLEANING

A. Clean units using cleaning material and methods specifically recommended by window manufacturer.

B. Remove excess sealants, glazing materials, dirt, and other substances.

C. Avoid damaging protective coatings and finishes.

D. Protect unit surfaces from masonry cleaning solution that could damage insulation glass panels or hardware.

E. Remove debris from work site and properly dispose of debris.

SPECIFIER NOTE: SPECIFY PROVISIONS FOR PROTECTING WORK AFTER INSTALLATION BUT PRIOR TO ACCEPTANCE BY THE OWNER. COORDINATE ARTICLE BELOW WITH DIVISION 01 EXECUTION REQUIREMENTS SECTION.

3.5 PROTECTION

A. Protect installed work from damage due to subsequent construction activity on the site.

END OF SECTION