

SECTION 08 14 00

WOOD DOORS

(ANDERSEN® 400 SERIES FRENCHWOOD® HINGED INSWING AND OUTSWING WOOD PATIO DOORS, SIDELIGHTS AND TRANSOMS)

PART 1 - GENERAL

SPECIFIER NOTE: DATA CONTAINED IN THIS GUIDE SPEC IS ACCURATE AS OF SEPTEMBER 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 Patio Doors.
- 2. Outswing Wood Patio 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.>
 - U-Factor (NFRC 100): <Specify U-Factor.>
 - 5. Solar Heat Gain Coefficient (SHGC) (NFRC 200): <Specify SHGC.>
 - 6. Outdoor Indoor Transmission Class (OITC) (ASTM E90): <Specify OITC.>
 - 7. Sound Transmission Class (STC) (ASTM E90): <Specify STC. >

SPECIFIER NOTE: MANUFACTURER RECOMMENDS REFERRING TO WEBSITE DESIGN PRESSURE ESTIMATOR FOR ADDITIONAL WIND LOAD INFORMATION. RETAIN, EDIT, OR DELETE LANGUAGE BELOW TO SUIT PROJECT REQUIREMENTS

B. Structural Requirements: Provide products/systems capable of withstanding wind loads based on testing units representative of those indicated for Project that pass AAMA/NWWDA 101/I.S.2/NAFS, Uniform Structural Load Test:



- 1. Design Wind Loads: Determine design wind loads applicable to Product from basic wind speed indicted in miles per hour (meters per second) at 33 feet (10 meters) above grade, according to ASCE, Section 6, based upon mean roof heights indicted on Drawings.
 - Basic Wind Speed: <Specify wind speed.>
 - b. Importance Factor: <Specify importance factor.>
 - c. Exposure Category: <Specify exposure category.>
 - d. Wind Load Requirement: <Specify design pressure requirement.>
- C. Large Missile Impact: Provide glazing systems capable of withstanding large missile impact and air pressure cycling without failure as required by the Large Missile Test for ASTM E 1996 or comparable test acceptable to authorities have jurisdiction.

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 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:

 Insulating Glass Units: Provide insulating glass units permanently marked with certification label of Insulating Glass Certification Council (IGCC) indicating compliance with ASTM E2190.

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.

SPECIFIER NOTE: RETAIN PARAGRAPH BELOW IF IMPACT RESISTANT PRODUCTS ARE REQUIRED.

A. Windborne-Debris Resistance: Provide glazed units capable of resisting impact from windborne debris, based on pass/fail criteria as determined from testing glazed units per ASTM E1886 and ASTM E1996.

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

B. 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® 400 Series Frenchwood® Hinged Patio Doors.
 - 2. Andersen® 400 Series Frenchwood® Outswing Patio Doors.
 - 3. Andersen® 400 Series Frenchwood® Patio Door Sidelights.
 - 4. Andersen® 400 Series Frenchwood® Patio Door 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.

5. 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 Sash Members: Fabricated from wood species approved in WDMA Industry Standard I.S.8.
- B. Reinforced Engineered Plastic Frame Cover: Comply with ASTM D3647.



- C. Polyester Urethane Coating: Conform to color uniformity, chemical resistance, detergent resistance, and weather resistance requirements of AAMA 2603.8.
- D. Weatherstripping: Continuous flexible compressible bulb type with welded corners.
- E. Sill Cover: Zinc chromate and polyester urethane coated aluminum extrusion and rigid vinyl (PVC).
- F. Fastener Covers: Aluminum extrusion with polyester urethane coating.
- G. Sill: Fibrex® material.

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 polyisobutylene primary seal and silicone secondary seal. Provide metal spacers with bent or soldered corners.

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 polyisobutylene primary seal and silicone secondary seal. Provide metal spacers with bent or soldered corners.
- C. Impact Resistant Glazing: Provide impact resistant glazing that has been tested in accordance with ASTM E1996 large missile impact requirements.

SPECIFIER NOTE: SELECT BETWEEN THE FOLLOWING STANDARD GLAZING OPTIONS. CONSULT ANDERSEN CORPORATION FOR ADDITIONAL GLAZING OPTIONS. CONSULT ANDERSEN CORPORATION FOR ASSISTANCE IN SELECTING APPROPRIATE GLAZING TYPE.

- D. High-Performance[™] Low-E4[™] Argon Blend 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™ 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.
 - 5. Protective removable polyolefin film applied to glass surfaces No. 1 and No. 4.
- E. High-Performance [™] Low-E4[™] Sun Glass, Low SHGC, Argon Blend 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.
 - 5. Protective removable polyolefin film applied to glass surfaces No. 1 and No. 4.

SPECIFIER NOTE: SELECT BETWEEN THE TWO IMPACT RESISTANT GLASS TYPES IF IMPACT RESISTANT GLAZING REQUIRED.

F. Monolithic Impact Glass:



1. Glass: Impact resistant glass consisting of two (2) lites of clear annealed glass conforming to ASTM C1036, Type 1, Class 1, q3, Kind LA, laminated with 0.090 inch (2.3 mm) polyvinyl butyral interlayer in the following color:

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

- a. Color: Clear.
- b. Color: Gray tinted.
- 2. Protective removable polyolefin film applied to glass surfaces No. 1 and No. 2
- G. Insulating Impact Resistant Glass:
 - Glass: Insulating glass units consisting of an outboard lite of clear tempered glass conforming to ASTM C1048, Type 1, Class 1, q3, Kind FT, and a laminated inboard lite of cleared annealed glass conforming to ASTM C1036, Type 1, Class 1, q3, Kind LA, laminate with a 0.090 inch (2.3 mm) polyvinyl butyral interlayer.
 - 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.

SPECIFIER NOTE: RETAIN SUBPARAGRAPH ABOVE FOR STANDARD LOW-E COATING. RETAIN SUBPARAGRAPH BELOW FOR SUN LOW-E COATING.

- 4. High-Performance™ Low-E4™ Sun Glass: Magnetron sputtering vapor deposition (MSVD) Low-E coating applied to the No. 2 surface.
- 5. Filling: Fill space between glass lites with argon gas blend.
- 6. Protective removable polyolefin film applied to glass surfaces No. 1 and No. 4.

2.5 HARDWARE

A. Hinges: Ball bearing, adjustable, captured hinge design with cover plate. Hinges allow vertical and rack panel adjustment, in the following finish to match lock trim:

SPECIFIER NOTE: RETAIN ONE OF THE FOLLOWING HARDWARE LOCK COLORS BELOW. DELETE COLORS NOT REQUIRED.

- 1. Finish: Bright Brass.
- 2. Finish: Antique Brass.
- 3. Finish: Polished Chrome.
- Finish: Brushed Chrome.
- Finish: Oil Rubbed Bronze.
- 6. Finish: Satin Nickel.
- 7. Finish: Distressed Bronze.
- 8. Finish: Distressed Nickel.
- B. Hinges for Doors with Prefinished White Interior: Prefinished White zinc die cast steel adjustable, captured hinge design with ball bearing pivots.
- C. Locks: Stainless steel locking mechanism consisting of lever handle operated latch and 3-point deadbolt lock mechanism. 3-point locking mechanism consists of thumb turn operated 0.787 inch (20 mm) metal deadbolt, which when projected, locks 2 additional hook bolts engaging active panel.
 - 1. Provide 6-pin keyed cylinder and thumb turn at interior.
- D. Coastal Upgrade for AP/PA Units: 5-point stainless steel lock.
- E. Lever Handle Trim: Provide the following trim style and finish where indicated:



SPECIFIER NOTE: SELECT BETWEEN THE FOLLOWING HARDWARE STYLES..

1. Newbury® Hardware: Forged brass thumb turn and operating handle pull with the following finish:

SPECIFIER NOTE: RETAIN ONE OF THE FOLLOWING HARDWARE LOCK FINISHES BELOW. DELETE FINISHES NOT REQUIRED.

- a. Finish: Bright Brass.
- b. Finish: Antique Brass.
- c. Finish: Polished Chrome.
- d. Finish: Brushed Chrome.
- e. Finish: Oil Rubbed Bronze.
- f. Finish: Satin Nickel.
- 2. Covington™ Hardware: Forged brass thumb turn and operating handle pull with the following finish:

SPECIFIER NOTE: RETAIN ONE OF THE FOLLOWING HARDWARE FINISHES BELOW. DELETE FINISHES NOT REQUIRED.

- a. Finish: Bright Brass.
- b. Finish: Antique Brass.
- c. Finish: Oil Rubbed Bronze.
- 3. Encino® Hardware: Forged brass thumb turn and operating handle pull with the following finish:

SPECIFIER NOTE: RETAIN ONE OF THE FOLLOWING HARDWARE FINISHES BELOW. DELETE FINISHES NOT REQUIRED.

- a. Finish: Distressed Bronze.
- b. Finish: Distressed Nickel.
- 4. Yuma® Hardware: Forged brass thumb turn and operating handle pull with the following finish:

SPECIFIER NOTE: RETAIN ONE OF THE FOLLOWING HARDWARE FINISHES BELOW. DELETE FINISHES NOT REQUIRED.

- a. Finish: Distressed Bronze.
- b. Finish: Distressed Nickel.
- 5. Anvers® Hardware: Forged brass thumb turn and operating handle pull with the following finish:

SPECIFIER NOTE: RETAIN ONE OF THE FOLLOWING HARDWARE FINISHES BELOW. DELETE COLORS NOT REQUIRED.

- a. Finish: Bright Brass.
- b. Finish: Oil Rubbed Bronze.
- c. Finish: Satin Nickel.
- 6. Whitmore®: Forged brass thumb turn and operating handle pull with the following finish:

SPECIFIER NOTE: RETAIN ONE OF THE FOLLOWING HARDWARE FINISHES BELOW. DELETE FINISHES NOT REQUIRED.

- a. Finish: Bright Brass.
- b. Finish: Antique Brass.
- c. Finish: Oil Rubbed Bronze.
- d. Finish: Satin Nickel.
- 7. Tribeca® Hardware: Cast zinc dichromate thumb turn and lever handle trim with powder coated painted finish in the following color:

SPECIFIER NOTE: RETAIN ONE OF THE FOLLOWING HARDWARE COLORS BELOW. DELETE COLORS NOT REQUIRED.

a. Color: White.b. Color: Stone.



2.6 JOINING SYSTEMS

SPECIFIER NOTE: ANDERSEN WINDOWS STRONGLY RECOMMENDS CONSULTATION WITH AN EXPERIENCED STRUCTURAL ENGINEER, ARCHITECT, OR CONTRACTOR AND A LOCAL ANDERSEN REPRESENTATIVE WHEN SPECIFYING ANDERSEN JOINING SYSTEMS. CONSULT AN ANDERSEN REPRESENTATIVE FOR JOINING OPTIONS WHEN JOINING IMPACT RESISTANT WINDOW PRODUCTS.

1. Aluminum Non-Reinforced Joining: Extruded aluminum profile of 6063-T6.

SPECIFIER NOTE: IF REQUIRED FOR PROJECT, RETAIN ONE OF THE 1-WAY OR 2-WAY COMBINATIONS BELOW AND RELATED SUBPARAGRAPH. DELETE COMBINATIONS NOT REQUIRED FOR PROJECT.

- B. LVL Reinforced Joining 1-way Combination: Provide 4-9/16 inch (116 mm) by 3/4 inch (19 mm) laminated veneer lumber (LVL) joining with extruded anodized aluminum trim receptor end cap.
 - 1. Provide corrosion resistant screws and bolts for fastening reinforcement members to wood frame and fastening end brackets to reinforcement members.
- C. LVL Reinforced Joining 1-way Combination: Provide 6-9/16 inch (167 mm) by 3/4 inch (19 mm) laminated veneer lumber (LVL) joining with extruded anodized aluminum trim receptor end cap.
 - 1. Provide corrosion resistant screws and bolts for fastening reinforcement members to wood frame and fastening end brackets to reinforcement members.
- D. LVL Reinforced Joining 2-way Combination: Provide 4-9/16 inch (116 mm) by 3/4 inch (19 mm) laminated veneer lumber (LVL) joining with extruded anodized aluminum trim receptor end cap.
 - 1. Provide corrosion resistant screws and bolts for fastening reinforcement members to wood frame and fastening end brackets to reinforcement members.
- E. LVL Reinforced Joining 2-way Combination: Provide 6-9/16 inch (167 mm) by 3/4 inch (19 mm) laminated veneer lumber (LVL) joining with extruded anodized aluminum trim receptor end cap.
 - 1. Provide corrosion resistant screws and bolts for fastening reinforcement members to wood frame and fastening end brackets to reinforcement members.
- F. Gusset Plates: Galvanized steel plates as recommended by door manufacturer for specific application.
- G. Head Flashing: 6 inch (152 mm) long sheet vinyl.
 - 1. Color: Match door exterior color.
- H. Silicone Sealant: Recommended by door manufacturer.
- I. Exterior Vinyl Trim Strips: Provide for each joining method used.
 - Color: Match door exterior color.

SPECIFIER NOTE: SPECIFY SUBORDINATE OR SECONDARY ITEMS THAT AID AND ASSIST PRIMARY PRODUCTS SPECIFIED ABOVE OR ARE NECESSARY FOR PREPARATION OR INSTALLATION OF THOSE ITEMS.

2.7 ACCESSORIES

SPECIFIER NOTE: INTERIOR GRILLES CAN BE FIXED OR PERMANENTLY APPLIED FIBREX® MATERIAL OR WOOD AS SELECTED BELOW. FIXED INTERIOR GRILLES MUST BE USED IN CONJUNCTION WITH FIXED EXTERIOR GRILLES. CONSULT SPECIFICATIONS FOR GRILLE MATERIAL OF ADJACENT UNIT FOR JOINED UNITS OF DIFFERENT TYPES. CONSULT AN ANDERSEN REPRESENTATIVE FOR ADDITIONAL GRILLE OPTIONS

A. Grilles:

SPECIFIER NOTE: COORDINATE SPECIFICATIONS FOR GRILLE MATERIAL OF ADJACENT UNIT FOR JOINED UNITS OF DIFFERENT TYPES. REFER TO *ANDERSEN® DIVIDED LIGHT PATTERN GUIDE* FOR AVAILABLE DIVIDED LIGHT PATTERNS AND DETAILS. EXTERIOR AND INTERIOR COLORS CAN BE DIFFERENT COLORS. RETAIN PROJECT REQUIRED GRILLE PATTERN SUBPARAGRAPH



BELOW AND DELETE SUBPARAGRAPHS NOT REQUIRED. FULL DIVIDED LIGHT AND FINELIGHT GRILLES ARE NOT AVAILABLE FOR IMPACT RESISTANT GLAZED PRODUCTS.

- 1. Full Divided Light Grilles: Fixed exterior and interior grilles with an anodized aluminum muntin bar, 1/2 inch (12.7 mm) wide, to match spacer within insulated glass unit where indicated on Drawings.
 - a. Exterior Grille: Provide Fibrex® material exterior grilles where indicated on Drawings. Install grilles on exterior of glass with adhesive tape to simulate true divided light muntin bars in the following color:
 - 1) Color: White.
 - 2) Color: Stone.
 - 3) Color: Sandtone.
 - 4) Color: Forest Green.
 - b. Interior grille: Provide profiled wood grilles applied with adhesive tape to interior glass surface.
 - 1) Grille Type: Unfinished Maple.
 - 2) Grille Type: Unfinished Oak.
 - 3) Grille Type: Unfinished Pine
 - 4) Grille Type: White Fibrex® material.

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

- c. Width: 3/4 inch (19.1 mm).
- d. Width: 7/8 inch (22 mm).
- e. Width: 1-1/8 inch (29 mm).
- f. Width: 2-1/4 inch (57mm)
- g. Pattern as indicated on Drawings.
- 2. Simulated Divided Light Grilles: Fixed exterior grilles with fixed or removable interior grilles where indicated on Drawings.
 - a. Exterior Grille: Provide Fibrex® material exterior grilles where indicated on Drawings. Install grilles on exterior of glass with continuous adhesive tape to simulate true divided light muntin bars in the following color:
 - 1) Color: White.
 - 2) Color: Terratone®
 - 3) Color: Sandtone.
 - 4) Color: Forest Green.

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

- b. Fixed Interior Grille: Provide profiled wood grilles applied with adhesive tape to interior glass surface.
 - 1) Grille Type: Unfinished Maple.
 - 2) Grille Type: Unfinished Oak.
 - 3) Grille Type: Unfinished Pine
 - 4) Grille Type: White Fibrex® material.
- c. Removable Interior Grilles: Provide removable, hardwood maple divided light grilles where indicated on Drawings. Install removable grilles against interior glass, attached with metal fasteners or integral tabs to sash.
 - 1) Grille Type: Unfinished Maple.
 - 2) Grille Type: Unfinished Oak.



- 3) Grille Type: Prefinished Maple.
 - a) Color: White.
 - b) Color: Terratone®
 - c) Color: Sandtone.
 - d) Color: Forest Green.

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

- d. Width: 3/4 inch (19.1 mm).
- e. Width: 7/8 inch (22 mm).
- f. Width: 1-1/8 inch (29 mm).
- g. Width: 2-1/4 inch (57mm
- h. Pattern as indicated on Drawings.
- 3. Removable Interior Grilles: Provide removable, hardwood maple divided light grilles where indicated on Drawings. Install removable grilles against interior glass, attached with metal fasteners or integral tabs to sash. Provide dual face profile to give muntin bar appearance from both interior and exterior.

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

- a. Exterior Facing: Maple grille with White color painted finish.
- b. Exterior Facing: Maple grille with Sandtone color painted finish.
- c. Exterior Facing: Maple grille with Terratone® color painted finish.
- d. Exterior Facing: Maple grille with Forest Green color painted finish.

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

- e. Interior Facing: Unfinished Maple.
- f. Interior Facing: White Painted maple interior.

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

- g. Width: 3/4 inch (19.1 mm).
- h. Width: 7/8 inch (22 mm).
- i. Width: 1-1/8 inch (29 mm).
- j. Pattern as indicated on Drawings.
- 4. Finelight™ Grilles: Provide contour profile aluminum muntin bars permanently mounted within insulating glass unit where indicated on Drawings.
 - a. Grille Intersections: ABS concealed plastic connectors with nylon end keepers.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED FINISH SUBPARAGRAPH BELOW. DELETE SUBPARAGRAPHS NOT REQUIRED. SPECIFY IF INTERIOR COLOR IS DIFFERENT THAN EXTERIOR COLOR.

- b. Exterior and Interior Surface: White color painted finish.
- c. Exterior and Interior Surface: Sandtone color painted finish.
- d. Exterior and Interior Surface: Terratone® color painted finish.
- e. Exterior and Interior Surface: Forest Green color painted finish.
- f. Width: 3/4 inch (19.1 mm).



SPECIFIER NOTE: RETAIN REQUIRED GRILLE WIDTH ABOVE OR BELOW. DELETE SUBPARAGRAPHS NOT REQUIRED.

- g. Width: 1 inch (25.4 mm).
- h. Pattern as indicated on Drawings.
- B. Provide wood interior extension jamb members machined from clear or veneered, finger joined clear material approved in ANSI/AAMA/NWWDA 101/I.S.2. Pre-drill extension jambs for application.
- C. Exterior Trim and Casing: Where indicated on Drawings, provide vinyl sheathed plywood in the following thickness, conforming to NIST Voluntary Product Standards P.S.1 and rigid vinyl channels.
 - 1. Thickness: 1/2 inch (12.7 mm).

SPECIFIER NOTE: RETAIN THICKNESS ABOVE OR BELOW.

- 2. Thickness: 3/4 inch (19 mm).
- 3. Color: Match window framing.
- 4. Vinyl Trim Board: 0.043 inch (1.09 mm) thick vinyl with lightly textured surface laminated with adhesive to 3/4 inch (19 mm) thick plywood.

SPECIFIER NOTE: RETAIN SUBPARAGRAPH ABOVE FOR ANDERSEN® VINYL TRIM BOARD. RETAIN SUBPARAGRAPH BELOW FOR VINYL LAMINATED BOARD.

- 5. Vinyl Laminated Board: 0.045 inch (1.14 mm) thick vinyl with smooth surface laminated with adhesive to 1/2 inch (12.7 mm) thick plywood.
- 6. Trim Channels: Rigid vinyl extrusions furnished by window manufacturer for use on same product line.
- D. Exterior Extension Jambs: 6063 aluminum extrusion with screw fastening system.
 - 1. Color: Match patio door unit exterior color.
- E. Sill Extender and Sill Support: Zinc chromate anodized aluminum extrusion.
- F. 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.

- 1. Species: Maple.
- 2. Species: Pine.
- 3. Species: Oak.
- 4. Species: Prefinished Pine.

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

- 5. Jamb Width: 5-1/4 inch (133 mm) wide.
- 6. Jamb Width: 6-9/16 inch (167 mm) wide.
- 7. Jamb Width: 7-1/8 inch (181 mm) wide.
- G. Frenchwood® Outswing Door Panel Stop: Provide panel stops fabricated from the following species:

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

- 1. Species: Pine.
- 2. Species: Oak.
- 3. Species: Maple.
- 4. Species: White vinyl.



- H. Frenchwood® Hinged Inswing and Outswing Door Threshold: Provide threshold fabricated from the following species:
 - 1. Species: Oak.

SPECIFIER NOTE: RETAIN SPECIES ABOVE OR BELOW.

- 2. Species: Mahogany.
- I. Exterior Keyed Lock: 6-pin keyed lock system.
- J. Support Mullion Trim: 2 inch (51 mm) wide wood filler and vinyl trim strip.
 - 1. Color: Match window unit exterior color.
- K. Frenchwood® Hinged Door Insect Screens: Provide hinged patio doors with an insect screen installed on the exterior.
 - 1. Insect Screen Door Frame: 0.040 inch (1.02 mm) roll formed aluminum frame with chromate conversion coating.
 - 2. Hinged Insect Screen Door Frame for Single Panel and Active Passive Units: 0.040 inch (1.02 mm) extruded aluminum frame with chromate conversion coating. Provide hinged insect screen doors complete with hinges, closers, and latches.
 - 3. Double-Hinged Insect Screen: 0.040 inch (1.02 mm) aluminum frame with chromate conversion coating.
 - 4. Insect Screen Cloth: 18 by 16 glass fiber mesh, charcoal color finish.
 - 5. Frame Finish:

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

- a. Color: White.
- b. Color: Sandtone.
- c. Color: Terratone®.
- d. Color: Forest Green.
- 6. Rollers: Insect screen doors operate on injection molded bottom rollers with self contained leveling adjusters engaged in sill track.
- 7. Operating Handles: Polycarbonate operating handles to receive locking mechanism in the following color.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED COLOR SUBPARAGRAPH BELOW. DELETE SUBPARAGRAPHS NOT REQUIRED. "POLANE" IS A REGISTERED TRADEMARK OF THE SHERWIN-WILLIAMS COMPANY.

- a. Color: White.
- b. Color: Stone.
- 8. Double Insect Screen Track: 2-piece, Polane® coated, 6063 aluminum extrusion with corner locks and drive rivet fastening system.
- 9. Color: Match patio door unit exterior color.
- L. Frenchwood® Outswing Door Insect Screens: Provide outswing hinged patio doors with retractable insect screen installed on interior jamb.
 - 1. Retractable Insect Screen Housing Assembly: Aluminum with white painted finish.
 - 2. Insect Screen Cloth: 18 by 16 glass fiber mesh, charcoal color finish.

SPECIFIER NOTE: THE FOLLOWING PARAGRAPH FOR RAMP SILL INSERT APPLIES TO FRENCHWOOD® HINGED DOOR ONLY AND IS NOT AVAILABLE FOR USE WITH INSECT SCREENS. SPECIFIER SHALL CHECK WITH LOCAL CODE OFFICIALS IF PRODUCT MEETS ACCESSIBILITY CODES.



- M. Frenchwood® Hinged Inswing and Outswing Door Ramp Sill Insert: Provide ramped sill insert consisting of the following components:
 - 1. Interior Ramp: Finger joined wood in the following species:

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

- a. Species: Oak.
- b. Species Type: Maple.
- 2. Center Sill Insert: Extruded aluminum profile with gray painted finish.
- 3. Exterior Ramp: 2-piece extruded aluminum ramp with gray painted finish.

SPECIFIER NOTE: CONTACT AN ANDERSEN REPRESENTATIVE FOR CUSTOM DESIGN CAPABILITIES. ANDERSEN® ART GLASS IS NOT AVAILABLE FOR IMPACT RESISTANT TRANSOM (TWT) UNITS. "FRANK LLOYD WRIGHT" IS A REGISTERED TRADEMARK OF THE FRANK LLOYD WRIGHT FOUNDATION.

N. Andersen® Art Glass Panels: Hand assembled, stained glass panels sized to match unit glass opening. Art Glass panels are designed exclusively for application to Andersen products.

SPECIFIER NOTE: RETAIN PROJECT REQUIRED PATTERN BELOW AND DELETE PATTERNS NOT REQUIRED FOR PROJECT.

- 1. Pattern: Frank Lloyd Wright® Series Colonnade.
- 2. Pattern: Frank Lloyd Wright® Series Prairie Rhythm.
- 3. Pattern: Frank Lloyd Wright® Series Wichita.
- 4. Pattern: Frank Lloyd Wright® Series Eucalyptus.
- 5. Pattern: Artisan Series Harmonics.
- 6. Pattern: Artisan Series Affinity.
- 7. Pattern: Classic Series Victoria.
- 8. Pattern: Classic Series Regency.
- 9. Pattern: Classic Series Lotus.
- 10. Pattern: Classic Series Taos.
- 11. Pattern: Classic Series Diamond Lights.
- 12. Panel Glazing: Machine rolled glass and mouth-blown colored design glass. Glazing is fitted into cames using vinyl gaskets and silicone sealant. Secure panels with fixed and snap-lock polypropylene clips secured to the unit. Trim interior with wood stops.
 - a. Design Glass: Standard color palettes.

SPECIFIER NOTE: RETAIN DESIGN GLASS ABOVE OR BELOW.

- b. Design Glass: Custom color combinations.
- c. Background Glass: Clear Antique color.

SPECIFIER NOTE: RETAIN CLEAR ANTIQUE BACKGROUND GLASS ABOVE OR SEMI-PRIVATE BACKGROUND GLASS BELOW.

- d. Background Glass: Semi-Privacy color.
- 13. Caming: Steel reinforced zinc "Y" edge cames, rigid zinc "H" cames with welded seams, and flexible zinc alloy "H" cames. Join came joints with lead-free solder.

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

- a. Caming: Antique finish.
- b. Caming: Gold tone (gold-plated) finish.
- c. Caming: Silver tone (nickel-plated) finish.

SPECIFIER NOTE: DESCRIBE ITEMS THAT MUST BE SHOP MANUFACTURED, FABRICATED, OR ASSEMBLED BEFORE BEING DELIVERED TO THE SITE.



2.8 FABRICATION

- A. Preservative Treatment: Treat wood frame and door panel wood members after machining with a water repellent preservative in accordance with WDMA I.S.4.
- B. Frame Components:
 - 1. Attach reinforced engineered plastic frame cover to wood frame.
 - 2. Factory-apply urethane coating (2.6 mil minimum dry film thickness) to exterior exposed surfaces of sensitized reinforced engineered plastic frame cover.
- C. Door Panels:
 - 1. Stiles and Top Rails: Finger joined and edge glued wood core, 1-3/4 inches (44 mm) thick before milling. Provide solid wood edge strips, phenolic interior and exterior outer substrate, and veneered interior surface.
 - 2. Bottom Rails: Laminated construction consisting of veneer interior surface over laminated veneer lumber core with phenolic overlay interior and exterior outer substrate.
 - 3. Corner Fastening:
 - a. Door Units: Double blind mortise and tenon joints secured with hardwood dowel and water-resistant structural adhesive.
 - b. Sidelight and Transom Units: Multi-surface butt joint with adhesive, silicone and two (2) wood screws.
 - 4. Door Panel Finish:
 - a. Interior: Unfinished, natural clear veneer of the following species to receive paint or stain finish as specified in Section 09 90 00.

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

- 1) Species: Oak.
- 2) Species Type: Maple.
- 3) Species Type: Pine.
- 4) Finish Type: Prefinished White interior.
- b. Exterior: Factory-applied, high durability, urethane coating in the following color:

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

- 1) Color: White.
- 2) Color: Sandtone.
- 3) Color: Terratone®.
- 4) Color: Forest Green finish.
- D. Sill: Zinc chromate and polyester urethane-coated aluminum extrusion.
 - 1. Aluminum sill attached to composite Fibrex® material frame.
- E. Weatherstripping: Factory applied gasket type weatherstripping to full perimeter of panels.
- F. 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:

- Perform installation in accordance with Manufacturer's instructions.
- 2. Install units plumb, level, 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.
- 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