

SECTION 08 14 00
SLIDING WOOD DOORS
(ANDERSEN® 200 SERIES PERMA-SHIELD® GLIDING PATIO DOORS)

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:
1. Gliding Patio Doors.

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.>
 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 indicated in miles per hour (meters per second) at 33 feet (10 meters) above grade, according to ASCE, Section 6, based upon mean roof heights indicated on Drawings.
 - a. 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.>

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 vinyl 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. Sliding wood doors, including the following:
1. Andersen® 200 Series Perma-Shield® Gliding Patio Doors.

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. Wood Members: Fabricated from wood species approved in WDMA I.S.4.
- B. Vinyl Cladding: Rigid vinyl (PVC) complying with the requirements of ASTM D4216, in the following color:

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

1. Color: White.
 2. Color: Sandtone.
 3. Color: Terratone®.
- C. Weatherstripping:
1. Head and Jambs: Provide flexible vinyl at head and operating and fixed side jambs.
 2. Sill Weatherstripping: Provide polypropylene pile with fin seal at sill of operating panel.
 3. Meeting Stiles: Polyethylene wrapped urethane foam weatherstrip on the stationary panel and combination PVC weatherstrip on operating panel meeting stile.

2.4 GLAZING

- A. General: Tempered insulating glass units certified through the Insulating Glass Certification Council and conforming to the requirements of ASTM E2190. 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.

SPECIFIER NOTE: SELECT BETWEEN THE FOLLOWING STANDARD GLAZING OPTIONS. CONSULT ANDERSEN CORPORATION FOR ADDITIONAL GLAZING OPTIONS AND FOR ASSISTANCE IN SELECTING APPROPRIATE GLAZING TYPE. IN ADDITION TO COMPLYING WITH SAFETY GLAZING REQUIREMENTS, TEMPERED GLASS MAY BE REQUIRED BECAUSE OF WINDOW SIZE AND WIND LOAD.

- C. Dual-Pane Insulating Glass Units:
1. Glass: Insulating glass units consisting of 2 lites of clear tempered glass conforming to ASTM C1048, Type 1, Class 1, q3, Kind FT where indicated on Drawings and as required by window manufacturer.
 2. Filling: Fill space between glass lites with air.
 3. Protective removable polyolefin film applied to glass surfaces No. 1 and No. 4.

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

2.5 HARDWARE

- A. Roller Assembly: Provide operating panels with adjustable roller assembly consisting of self-lubricating tandem wheels operating on ball bearings. Provide 2-tandem rollers for each operating panel.

SPECIFIER NOTE: 6-PIN KEY CYLINDER IS OPTIONAL. RETAIN, EDIT, OR DELETE THE FOLLOWING PARAGRAPH TO SUIT PROJECT REQUIREMENTS.

- B. Locks: Brass thumb turn operated stainless steel reach-out hook bolt locking mechanism. Design lock to prevent automatic locking when door is closed.

SPECIFIER NOTE: RETAIN ONE OF THE FOLLOWING TWO OPTIONS PER PROJECT REQUIREMENTS.

1. Provide blank cover at exterior.
2. Provide 6-pin keyed cylinder.

SPECIFIER NOTE: OPTIONAL AUXILIARY AND 6-PIN KEY CYLINDER EXTERIOR KEYED LOCKS SHIPPED SEPARATELY.

SPECIFIER NOTE: SELECT BETWEEN THE FOLLOWING HARDWARE STYLES. DELETE STYLES NOT REQUIRED FOR PROJECT.

3. Hardware Styles: Provide the following hardware where indicated:
- a. 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.

- 1) Finish: Bright Brass.
 - 2) Finish: Antique Brass.
 - 3) Finish: Polished Chrome.
 - 4) Finish: Brushed Chrome.
 - 5) Finish: Oil Rubbed Bronze.
 - 6) Finish: Satin Nickel.
- b. 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.

- 1) Finish: Bright Brass.
 - 2) Finish: Antique Brass.
 - 3) Finish: Oil Rubbed Bronze.
- c. 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.

- 1) Finish: Distressed Bronze.
 - 2) Finish: Distressed Nickel.
- d. 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.

- 1) Finish: Distressed Bronze.
 - 2) Finish: Distressed Nickel.
- e. 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.

- 1) Finish: Bright Brass.
 - 2) Finish: Oil Rubbed Bronze.
 - 3) Finish: Satin Nickel.
- f. Whitmore® 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.

- 1) Finish: Bright Brass.
 - 2) Finish: Antique Brass.
 - 3) Finish: Oil Rubbed Bronze.
 - 4) Finish: Satin Nickel.
- g. 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.

- 1) Color: White.
- 2) Color: Stone.

SPECIFIER NOTE: AUXILIARY FOOT LOCKS ARE OPTIONAL ON 2 AND 4 PANEL DOORS. DELETE PARAGRAPH IF NOT REQUIRED.

- C. Auxiliary foot Lock: Provide operating panels with auxiliary foot lock consisting of a spring loaded plunger that engages a grommet in the sill. Provide auxiliary foot locks in the following finish or color:

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

1. Color: Stone.
2. Color: White.

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.

- A. Direct Jamb to Jamb Non-Reinforced: 1-way combination.

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. Fasteners: Corrosion resistant screws as provided by door manufacturer for fastening reinforcement members and gusset plates to wood frame. Other fasteners are provided by door installer.
- H. Head Flashing: 6 inch (152 mm) long sheet vinyl.
1. Color: Match door exterior color.
- I. Silicone Sealant: Recommended by door manufacturer.
- J. Exterior Vinyl Trim Strips: Provide for each joining method used.

1. 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: COORDINATE SPECIFICATIONS FOR GRILLE MATERIAL OF ADJACENT UNIT FOR JOINED UNITS OF DIFFERENT TYPES. STANDARD GRILLE WIDTH IS 3/4 INCH (19 MM). HARDWOOD MAPLE GRILLES ARE PROVIDED FOR PICTURE WINDOWS AND ARE AVAILABLE FOR OTHER WINDOW TYPES ON SPECIAL ORDER. 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.

1. 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.

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: 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: Prefinished Maple.
 - a) Color: White.
 - b) Color: Terratone®
 - c) Color: Sandtone.

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.

2. 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.

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

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

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

- f. Width: 3/4 inch (19.1 mm).
- g. Width: 7/8 inch (22 mm).
- h. Width: 1-1/8 inch (29 mm).
- i. Pattern as indicated on Drawings.

3. 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. Width: 3/4 inch (19.1 mm).

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

- f. Width: 1 inch (25.4 mm).
- g. Pattern as indicated on Drawings

SPECIFIER NOTE: SELECT BETWEEN THE GLIDING OR RETRACTABLE INSECT SCREEN OPTIONS.

- B. Perma-Clean® Gliding Insect Screens: Provide gliding patio doors with gliding insect screen installed on exterior.
 1. Insect Screen Door Frame: 0.040 inch (1 mm) roll formed aluminum frame with chromate conversion coating in the following polyester painted color.

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

- a. Color: White.
- b. Color: Sandtone.
- c. Color: Terratone®.
2. Insect Screen Cloth: 18 by 16 glass fiber mesh, charcoal color finish.

3. Rollers: Insect screen doors operate on injection molded bottom rollers with self contained leveling adjusters engaged in sill track.
4. Operating Handles: Polycarbonate operating handles to receive locking mechanism in the following color.

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

- a. Color: White.
 - b. Color: Stone.
- C. Perma-Clean® Retractable Insect Screens: Provide gliding patio doors with retractable insect screen installed on exterior.
1. Insect Screen Door Housing: Extruded aluminum housing in the following color.

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

- a. Color: White.
 - b. Color: Sandtone.
 - c. Color: Terratone®.
2. Insect Screen Cloth: 18 by 16 glass fiber mesh, charcoal color finish.
- D. Exterior Trim:
1. Where indicated on Drawings, provide vinyl sheathed plywood conforming to NIST Voluntary Product Standard PS1 and rigid vinyl channels.
 - a. Color: Match patio door unit exterior color.
 - b. Andersen® 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 ONE OF THE FOLLOWING WIDTHS BELOW.

- 1) Trim Width: 3-1/2 inch (89 mm).
- 2) Trim Width: 5 inches (127 mm).

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

- c. 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.
 - d. Trim Channels: Rigid vinyl extrusions furnished by door manufacturer for use on same product line.
2. Support Mullion Trim: 2 inch (51 mm) wide wood filler and vinyl trim strip.
 - a. Color: Match patio door unit exterior color.
- E. Sill Support: Clear anodized aluminum extrusion.
- F. Threshold: Threshold fabricated from the following species:

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

1. Species: Oak.
2. Species Type: Maple.

SPECIFIER NOTE: RAMPED SILL INSERT SPECIFIED BELOW CANNOT BE USED WITH GLIDING INSECT SCREENS.

- G. Ramped Sill Insert: Provide ramped sill insert consisting of the following components:
1. Interior Ramp: Finger joined material from the following species:

SPECIFIER NOTE: RETAIN PROJECT REQUIRED VENEER SUBPARAGRAPH BELOW. DELETE SUBPARAGRAPH 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: 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 members and interior glazing stops after machining with a water repellent preservative in accordance with WDMA I.S.4.
- B. Frame Components: Completely encase frame members with rigid vinyl extrusions.
- C. Door Stiles and Rails: Completely encase door stiles and rails with seamless, rigid vinyl extrusions. Heat weld corners.
- D. Sill: 0.062 inch (1.57 mm) thick zinc chromate and painted aluminum extrusion separated by structural PVC thermal barrier located to provide maximum resistance to thermal conductivity. Protect operating door track with stainless steel cap.
- E. Weatherstripping: Factory apply weatherstripping to unit frame. Field apply interlocking weatherstripping at panel meeting stiles.
- F. Glazing: Factory glaze with high quality glazing sealant and wood interior trim stops.

PART 3 - EXECUTION

- 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. 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 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.
 - 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