

# SECTION 08 14 00 WOOD DOORS

# (ANDERSEN® 200 SERIES HINGED PATIO DOORS-INSWING)

PART 1 - GENERAL

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

# 1.1 SUMMARY

- A. Section Includes:
  - Inswing Hinged 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.>
  - 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.
    - 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 per 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:
  - 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.

### 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 & 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 per 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 SUCH 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. Hinged patio doors, including the following:
  - 1. Andersen® 200 Series Hinged Patio Doors-Inswing.

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. Aluminum Frame Cover: Fabricate from 6063-T5 extruded aluminum with factory-applied urethane finish.
- C. Reinforced Engineered Plastic Panel: Comply with ASTM D3647.
- D. Polyester Urethane Coating: Conform to color uniformity, chemical resistance, detergent resistance, and weather resistance requirements of AAMA 2603. Provide coating in the following color:

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

- Color: White.
  Color: Sandtone.
  Color: Terratone®.
- E. Weatherstripping: Frame-mounted, flexible foam with butt joint corners.
- F. Interior Threshold: Extruded rigid vinyl (PVC).
- G. Sill: Extruded aluminum with clear anodized aluminum finish.

SPECIFIER NOTE: DELETE PARAGRAPHS F & G ABOVE AND RETAIN PARAGRAPH BELOW IF LOW PROFILE THRESHOLD IS REQUIRED. LOW PROFILE SILL AVAILABLE FOR SINGLE DOORS ONLY.

H. Low Profile Sill: Extruded aluminum thermally broken sill with dark bronze anodized finished.



#### 2.4 GLAZING

A. General: 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: 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:
  - 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.

5.

### 2.5 HARDWARE

- A. Locks: Hardened steel, single-point locking mechanism consisting of lever handle operated latch and hook deadbolt lock mechanism. Deadbolt locking mechanism consists of a thumb turn operated 0.943 inch (23.9 mm) metal deadbolt.
  - 1. Provide 6-pin keyed cylinder at exterior and thumb turn at interior.

SPECIFIER NOTE: FOR UPGRADED UNITS, DELETE SINGLE POINT LOCK TYPE ABOVE AND RETAIN 3-POINT LOCK TYPE BELOW.



- B. Locks: 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 at exterior and thumb turn at interior.
- C. Hinges: Hardened steel pin style adjustable captured hinge design. Design hinges to allow vertical and rack panel adjustment.

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

- 1. Finish: Painted White color.
- 2. Finish: Antique Brass.
- 3. Finish: Bright Brass.
- 4. Finish: Oil Rubbed Bronze.
- Finish: Satin Nickel.
- D. 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.
- 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. SPECIFY IF SPLIT FINISHES ARE 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.

SPECIFIER NOTE: IF REQUIRED FOR PROJECT, RETAIN ONE OF THE FOLLOWING LVL REINFORCING FOR 1-WAY OR 2-WAY COMBINATIONS. DELETE PARAGRAPHS NOT REQUIRED FOR PROJECT.

- A. LVL Reinforced Joining: 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.
- B. LVL Reinforced Joining: 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.
- C. Gusset Plates: Galvanized steel plates as recommended by door manufacturer for specific application.
- D. Head Flashing: 6 inch (152 mm) long sheet vinyl.
  - 1. Color: Match door exterior color.
- E. Silicone Sealant: Recommended by door manufacturer.
- F. 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

A. Grilles:



SPECIFIER NOTE: REFER TO ANDERSEN® DIVIDED LIGHT PATTERN GUIDE FOR AVAILABLE DIVIDED LIGHT PATTERNS AND DETAILS. EXTERIOR AND INTERIOR COLORS CAN BE DIFFERENT. 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:

Color: White.
 Color: Sandtone.
 Color: Terratone.

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

- Fixed Interior Grille: Provide profiled wood grilles applied with adhesive tape to interior glass surface.
  - 1) Grille Type: Prefinished 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: Prefinished Maple.

a) Color: White.b) Color: Sandtone.c) Color: Terratone.

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. 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: White Painted maple interior.

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



- e. Width: 3/4 inch (19.1 mm).
- f. Width: 7/8 inch (22 mm).
- g. Width: 1-1/8 inch (29 mm).
- h. 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.
  - b. Specifier note: Exterior Surface: Color to match exterior finish.

#### RETAIN PROJECT REQUIRED FINISH SUBPARAGRAPH BELOW. DELETE SUBPARAGRAPHS NOT REQUIRED.

- c. Interior Surface: White color painted finish.
- d. Interior Surface: Sandtone color painted finish
- e. Interior Surface: Terratone® 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. Extension Jambs: Wood interior extension jamb members machined from clear or veneered finger-jointed clear material approved in ANSI/AAMA/NWWDA 101/I.S.2-97. Predrill extension jambs for application.
- C. Interior Trim and Casing: Where indicated on Drawings, provide vinyl sheathed plywood in the following thickness, conforming to NIST Voluntary Product Standards PS1 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 door 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 door manufacturer for use on same product line.
- D. Sill Extender and Sill Support: Zinc chromate anodized aluminum extrusion.
- E. 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. Finish: Veneered with manufacturer's standard finish.
- 2. Finish Species: Prefinished Pine.



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

- Jamb Width: 5-1/4 inch (133 mm) wide.
  Jamb Width: 6-9/16 inch (167 mm) wide.
- 5. Jamb Width: 7-1/8 inch (181 mm) wide.
- F. Exterior Keyed Lock: 6-pin keyed lock system.
- G. Support Mullion Trim: 2 inch (51 mm) wide wood filler and vinyl trim strip.
  - 1. Color: Match door unit exterior color.
- H. Door Insect Screens: Provide patio doors with the following aluminum framed insect screen installed on exterior.

#### SPECIFIER NOTE: SELECT ONE OF THE FOLLOWING INSECT SCREEN FRAMES BELOW. DELETE TYPES NOT REQUIRED.

- Gliding Insect Screen Door Frame for Active Stationary Units: 0.040 inch (1.02 mm) roll formed frame
- 2. Hinged Insect Screen Door Frame for Single Panel and Active Passive Units: 0.040 inch (1.02 mm) extruded frame. Provide hinged insect screen doors complete with hinges, closers, and latches.
- 3. Double-Hinged Insect Screen: 0.040 inch (1.02 mm) aluminum frame.
- 4. Frame Finish: Provide insect frame in the following baked polyester painted color:

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

- a. Color: White.b. Color: Sandtonec. Color: Terratone..
- Insect Screen Cloth: 18 by 16 glass fiber mesh, charcoal finish.
- 6. Rollers: Insect screen doors operate on injection molded bottom rollers with self contained leveling adjusters engaged in sill track. Provide injection molded, self-adjusting rollers on top rail.
- 7. 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. Color: Terratone®

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

#### 2.8 FABRICATION

5.

- A. Preservative Treatment: Treat wood frame members after machining with water repellent preservative per WDMA I.S.4.
- B. Frame Components:
  - 1. Attach extruded aluminum cover to wood frame.
  - Factory-apply urethane coating (2.6 mil minimum dry film thickness) to exterior exposed surfaces of frame cover.
- C. Door Panels:



- Stiles: Reinforced engineered plastic with finger joined and edge glued wood core at hinge locations.
- 2. Top Rail: Reinforced engineered plastic.
- 3. Bottom Rails: Reinforced engineered plastic with polystyrene foam fill.
- 4. Door Panel Finishes: Factory-applied, high durability urethane coating in the following color:
  - a. Interior Facing: White.

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

- b. Exterior Color: White.
- c. Exterior Color: Sandtone.
- d. Exterior Color: Terratone®.
- D. Sill: Zinc chromate coated aluminum extrusion. Attach sill to vinyl interior threshold.
- E. Weatherstripping: Factory-applied gasket-type weatherstripping attached to unit frame side and head jambs. Attach sill sweep to panel bottom rail.
- F. Glazing: Factory glaze with high performance glazing sealant to exterior glazing stops.

# PART 3 - EXECUTION

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

# 3.1 EXAMINATION

- A. Comply with the instructions and recommendations of unit manufacturer.
- B. 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.
- C. Do not proceed with installation of units until unacceptable conditions are corrected.

SPECIFIER NOTE: SPECIFY THE FINAL ACTIONS REQUIRED TO CLEAN INSTALLED EQUIPMENT OR OTHER COMPLETED WORK TO PROPERLY FUNCTION OR PERFORM.



#### 3.2 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 per manufacturer's installation guides.

# B. Interface With Other Work:

- 1. Perform installation per 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.

COORDINATE ARTICLE BELOW WITH DIVISION 01 EXECUTION REQUIREMENTS (CLEANING) SECTION AND SPECIFIC PROJECT REQUIREMENTS.

# 3.3 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.

# 3.4 PROTECTION

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



**END OF SECTION**