Purpose and Applications: This guide specification covers Andersen® 100 Series gliding patio doors. These patio doors are suitable for new construction, remodeling or replacement applications.

Product Features: 100 Series windows and patio doors are manufactured using a composite called Fibrex® material, consisting of 40 percent wood fiber and 60 percent thermoplastic polymer by weight. This composite combines the strength and stability of wood with the low-maintenance features of vinyl. The wood fiber is reclaimed from the manufacture of Andersen wood windows. Featuring long-lasting reliability, deep, rich colors and reduced environmental impact, these patio doors never need painting and the finish will not fade, blister, chalk or peel. Product is available in custom sizes and with optional SmartSun glass meeting U.S. ENERGY STAR performance criteria.

This Document: This guide specification document is provided by Andersen Corporation as a technical support tool incident to the sale of its products. Andersen Corporation is solely responsible for its content. This document should be reviewed and edited to suit Project requirements by a qualified design professional.

Contact Information: Contact manufacturer for more information on this or other products made by Andersen Corporation: Andersen Windows, Inc., Andersen Service Center, 100 Fourth Ave North, Bayport, MN 55003-1096. Telephone: (800) 299-9029.

Website: www.andersenwindows.com

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Editor Note: Edit document to suit Project requirements and specifier practice. Specifier notes are shown in blue text like this. Optional text [**is shown in bold with brackets like this**]. Locations where language for Project-specific requirements is to be inserted are shown like this: <**insert language**>. Remove specifier notes and unused optional text in final version of the specification document.

Editor Note: The Construction Specifications Institute (CSI) recommends and supports use of its current MasterFormat section title and numbering system, shown below.

SECTION 08 16 00 – COMPOSITE DOORS

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes: Composite-framed gliding patio doors with one stationary panel and one gliding panel on adjustable rollers [**with**] [**transoms**] [**and**] [**sidelights**].

Editor Note: Revise paragraph below to suit Project requirements. Add section numbers and titles according to CSI MasterFormat and specifier practice. This paragraph is intended for use only when a reader might reasonably expect to find work requirements in this Section, but those requirements are actually located in another, related section.

B. Related Sections: Section(s) related to this section include:

1. <**Insert Work Title**>: <**Insert Division number**> Section <**Insert Section title**>.

Editor Note: Standards numbers and titles in the article below are provided for specifier information and reference. The purpose of this Article is to fully identify standards that are referenced elsewhere using abbreviated nomenclature. Retain, edit or delete article to suit specifier practice and Project requirements.

1.2 REFERENCES

A. General: Standards listed by reference form a part of this specification section. Standards listed are identified by issuing authority, abbreviation, designation number, title or other designation. Standards subsequently referenced in this Section are referred to by issuing authority abbreviation and standard designation.

B. Andersen 100 Series Installation Guide.

C. American Architectural Manufacturers Association (AAMA):

1. AAMA 502 - Voluntary Specification for Field Testing of Newly Installed Fenestration Products.

2. AAMA 615 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Plastic Profiles.

3. NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights.

D. ASTM International (ASTM):

1. ASTM C1036 - Standard Specification for Flat Glass.

2. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass.

3. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.

4. ASTM E1105 - Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform or Cyclic Static Air Pressure Difference.

5. ASTM E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation.

E. Insulating Glass Certification Council (IGCC):

1. Insulating Glass Unit Certification.

F. Insulating Glass Manufacturers Alliance of Canada (IGMAC) and Canadian General Standards Board (CGSB):

1. Insulating Glass Units Standard CAN/CGSB 12.8-97.

G. International Standards Organization (ISO):

1. ISO 14021 - Environmental Labels and Declarations -- Self-Declared Environmental Claims (Type II Environmental Labeling).

H. National Fenestration Rating Council (NFRC):

1. NFRC 100 - Procedure for Determining Fenestration Product U-Factors.

2. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence.

I. U.S. Environmental Protection Agency (EPA):

1. ENERGY STAR.

J. Window and Door Manufacturers Association (WDMA):

1. WDMA Hallmark Certification Program for Manufacturers.

1.3 ADMINISTRATIVE REQUIREMENTS

Editor Note: Retain paragraph below if pre-installation meetings are required and edit to suit Project requirements.

A. Preinstallation Meetings: Conduct preinstallation meeting to clarify Project requirements, substrate conditions, manufacturer’s installation instructions and manufacturer’s warranty requirements.

1.4 PERFORMANCE REQUIREMENTS

Editor Note: Project requirements in paragraph below might include but not be limited to design wind load, wind speed, maximum design deflection, importance factor, exposure category, performance class and grade.

A. Structural Performance Requirements: <**Insert requirements**>.

Editor Note: Retain paragraph below if compliance with a whole-building rating system (such as USGBC LEED, GBI Green Globes, or other) or specific sustainability-related design and construction aspects is required. Edit to suit Project requirements. Project requirements might include but not be limited to energy performance, recycled material content, regional materials, indoor air quality.

B. Environmental Performance Requirements: <**Insert requirements**>.

1.5 SUBMITTALS

A. Product Data: For each type of product required.

B. Shop Drawings: Showing methods of installation, plans, sections, elevations and details of walls, specified loads, flashings, vents, sealants, and interfaces with all materials not supplied by the door manufacturer, and identification of proposed component parts and finishes.

C. Samples: Selection and verification samples for finishes, colors and textures. Submit two complete sample sets of each type of material required.

D. Certificates: Signed by manufacturer certifying materials comply with specified performance characteristics, criteria and physical requirements.

E. Test and Evaluation Reports: Showing compliance with specified performance characteristics and physical properties.

F. Manufacturer’s Instructions: Manufacturer installation, storage, and other instructions.

Editor Note: Retain paragraph below if compliance with a whole-building rating system (such as USGBC LEED, GBI Green Globes, or other) or specific sustainability-related design and construction aspects is required. Edit to suit Project requirements.

G. Sustainable Design Submittals in Compliance with ISO 14021:

1. Energy performance.

2. Recycled content.

3. Regional materials.

4. Indoor air quality.

H. Qualification Statements: For manufacturer and installer.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications:

1. Member in good standing of the Insulating Glass Certification Council (IGCC).

2. Hallmark Certified Manufacturer and member in good standing of the Window and Door Manufacturers Association (WDMA).

3. Member in good standing of the U.S. Green Building Council.

4. U.S. EPA ENERGY STAR Partner.

5. Capable of demonstrating an extended history of window and door design, production and innovation.

Editor Note: Retain when a separate installer warranty is required.

B. Installer Qualifications:

1. Minimum five years’ experience in the commercial installation of products required for the Project.

2. Experience on at least five projects of similar size, type and complexity as the Project.

3. An entity utilizing workers competent in techniques required by manufacturer for product types and applications indicated.

1.7 DELIVERY, STORAGE AND HANDLING

A. Comply with manufacturer’s ordering instructions and lead time requirements to avoid construction delays.

B. Deliver materials to Project in manufacturer’s original unopened, undamaged containers with identification labels intact.

C. Storage and Protection: Store materials and accessories protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by manufacturer off ground, under cover and not exposed to weather and construction activities.

1.8 WARRANTY

Editor Note: Coordinate article below with Conditions of the Contract and with Division 01 Closeout Submittals (Warranty) Section.

A. Special Warranty: Manufacturer's transferrable, non-prorated limited warranty.

1. Warranty Period, Overall Product: 10 years.

2. Warranty Period, Glass: 20 years.

3. Warranty Period, Non-Glass Parts: 10 years.

4. Warranty Period, Fade Resistance: 10 years.

Editor Note: Retain paragraph below if a separate installer warranty is required and edit to suit Project requirements.

B. Special Warranty: Installer's standard form in which installer agrees to repair or replace composite patio doors that fail due to poor workmanship or faulty installation within the specified warranty period.

1. Warranty Period: <**Insert number of years**> years from date of Substantial Completion.

PART 2 PRODUCT

Editor Note: Add product features, performance characteristics, material standards, and descriptions as applicable. Use of terms such as "or equal" or "approved equal" or similar may cause ambiguity in specifications, requiring verification (procedural, legal and regulatory) and assignment of responsibility for the determination of "equal" products. Therefore it is recommended that terms such as these be avoided.

2.1 COMPOSITE PATIO DOORS

A. General: Provide composite patio doors complying with the performance requirements indicated and tested according to NAFS.

B. Basis-of-Design Product: Subject to compliance with requirements provide Andersen Corporation: Andersen 100 Series Patio Doors.

C. Substitution Limitations: [**No substitutions**] [**All other manufacturers: Submit substitution request in accordance with Section 01 25 00 - "Substitution Procedures"**] <**Insert substitution limitations**>.

2.2 MATERIALS

Editor Note: Fibrex composite material combines the strength and stability of wood with the low-maintenance features of vinyl. With Fibrex material, a special polymer formulation surrounds and coats each wood fiber in the manufacturing process, providing exceptional resistance to rot and fungal growth. Fibrex material is strong so frames can be made narrower than with other framing materials. Narrower frames mean more glass viewing area. Fibrex material has insulating properties on par with wood, vinyl or fiberglass and can be made into any style of door.

A. Material Composition: Extruded composite profile consisting of 40 percent reclaimed post-industrial wood fiber and 60 percent thermoplastic polymer, by weight.

B. Manufacturer Designation: Fibrex material.

Editor Note: Andersen Corporation employs manufacturing strategies to optimize recycled content. Efficient use of materials reduces overall resource consumption and demand for additional materials. Recycling materials and content in construction and building components help reduce the demand for natural resources. Pre-consumer recycled content varies by product. For more information contact Andersen Corporation or go to www.Andersenwindows.com.

C. Pre-consumer Recycled Content: <**Insert percentage**> percent minimum, third-party certified.

Editor Note: Black color interior is only available with Black color exterior. Dark Bronze color interior is only available with Dark Bronze color exterior. Sandtone color interior is only available with Sandtone color exterior. White color interior is available with all exterior color options.

D. Interior Color: [**Black] [Dark Bronze] [Sandtone] [White]**.

E. Exterior Color: [**Black**] [**Dark Bronze**] [**Sandtone**] [**Terratone**] [**White**].

Editor Note: AAMA 615 is a voluntary standard applicable to plastic profiles. It is comparable to the AAMA 2605 standard which is applicable to aluminum profiles but does not apply to plastics. AAMA 615 contains the same 10 year color retention requirements as AAMA 2605.

F. Exterior Color Retention: Formulated to resist fading with a change of no more than 5 Delta E units over 10 years in compliance with color retention provisions of AAMA 615.

Editor Note: Copy article below for each patio door type, edit to suit Project and product requirements and re-insert text as many times as needed to describe additional patio door types.

2.3 PATIO DOOR <**Insert patio door designation(s) used on Drawings**>.

A. Patio Door Type: Gliding patio door with one stationary panel and one gliding panel on adjustable rollers [**with**] [**transoms**] [**and**] [**sidelights**] <**Insert patio door type**> <**Insert manufacturer model or part number designation**>.

B. Performance Requirements: Comply with NAFS.

1. Performance Class and Grade: LC-PG30.

Editor Note: WDMA standard is < 0.3 cfm/ft². Retain sub-paragraph below for commercial buildings.

C. Air Infiltration Requirements:

1. Air Infiltration Rate: **< 0.2 cfm/sf²**.

Editor Note: Andersen products have glass options that make them ENERGY STAR certified. Retain when ENERGY STAR validation is required. Contact manufacturer for more information.

D. Environmental Certifications:

1. ENERGY STAR performance requirements.

2. Indoor Air Quality performance.

Editor Note: Retain paragraph below when gliding patio doors are required.

E. Weatherstrip Type and Material:

1. Frame: Dual-felt, applied on inside pocket of both side jambs and head jamb, polypropylene.

2. Panel: Full-length combination weatherstrip and interlock system, polypropylene.

F. Overall Depth: 5-1/8 inches (129 mm).

G. Attachment Flange: [**1-3/8 inches flange setback**] [**1 inch flange setback with stucco key**] [**None**].

H. Hardware:

1. Gliding Panel Latch Type and Material: Single actuation, two-point locking system, galvanized steel and engineered polymer components.

2. Rollers and Guides Type and Material: Dual corrosion-resistant ball bearing rollers and roller track with stainless steel cap.

Editor Note: Retain four sub-paragraphs below when painted patio door hardware is required.

3. Patio Door Handle Material: Die cast zinc.

4. Manufacturer Designation: Tulsa.

5. Exterior Finish: Painted to match patio door exterior color.

6. Interior Finish: Painted to match patio door interior color.

Editor Note: Retain three sub-paragraphs below when metallic-finish patio door hardware is required.

7. Patio Door Handle Material: Forged brass.

8. Manufacturer Designation: Afton.

9. Exterior and Interior Finish: [**Bright Brass**] [**Antique Brass**] [**Satin Nickel**] [**Black**].

Editor Note: Retain paragraph below when auxiliary foot lock is required.

10. Auxiliary Foot Lock Type and Color: Foot-operated device designed to secure gliding panel in track, [**Sandtone**] [**White**].

Editor Note: Retain sub-paragraph below when Finelight Grilles-Between-the-Glass are required and edit to suit Project requirements. Available in 3/4 inch (19 mm) or 1 inch (25 mm) widths only.

I. Finelight Grille: Permanently installed between glass panes.

1. Style: Contoured profile.

2. Width: [**3/4 inch (19 mm)**] [**1 inch (25 mm)**].

3. Pattern: [**As shown in Drawings**] <**Insert pattern designation**>.

4. Exterior Color: [**Match patio door**] <**Insert requirements**>.

5. Interior Finish: [**Match patio door**] <**Insert requirements**>.

J. Insect Screens:

1. Frame Material: Aluminum.

2. Frame Color: Match patio door frame.

3. Insect Screen Material: Fiberglass cloth, secured with vinyl spline.

Editor Note: Retain article below when patio doors using Andersen High-Performance Low-E glass are required. Glass type is a significant factor in determining overall patio door U-Factor. Copy article below for each patio door type, edit to suit Project and product requirements and re-insert text as many times as needed to describe additional patio door types.

2.4 GLAZING <**Insert patio door designation(s) used on Drawings**>.

Editor Note: Select required U-Factor in paragraph below and coordinate with required glazing type. U-Factors provided are based on whole-patio door performance, not on center-of-glass. Coordinate selection below with manufacturer’s product information. Actual unit performance values will vary depending upon Performance Grade (PG) rating, glass options, accessories such as grilles, unit size and type. Go to www.AndersenWindows.com to view performance values. Specific performance values indicated below are based on 3.0 mm glass thickness, 1-inch Finelight grilles and Argon gas blend-filled insulated glazing units where applicable, except for clear dual-pane insulated glazing units which are air-filled values.

A: Thermal Transmission (U-Factor), NFRC 100:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.30 without grilles**] [**0.30 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.31 without grilles**] [**0.32 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.31 without grilles**] [**0.31 with grilles**] <**Insert U-Factor value**>.

B. Solar Heat Gain Coefficient (SHGC), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.32 without grilles**] [**0.29 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.25 without grilles**] [**0.23 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.25 without grilles**] [**0.23 with grilles**] <**Insert SHGC value**>.

C. Visible Light Transmittance (VLT), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.55 without grilles**] [**0.48 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.43 without grilles**] [**0.38 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.43 without grilles**] [**0.38 with grilles**] <**Insert VLT value**>.

Editor Note: Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC) performance varies depending on patio door type and whether standard or upgrade features are specified. Coordinate selection below with manufacturer’s product information.

D. Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC), ASTM E90:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**28/23**] [**29/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

E. Glass Units: Provide insulating glass units certified through [**Insulating Glass Certification Council as conforming to the requirements of IGCC and ASTM E2190**] [**Insulating Glass Manufacturers Alliance of Canada (IGMAC) conforming to the requirements of Canadian General Standards Board CAN/CGSB 12.8**].

1. Manufacturer Designation: Andersen High-Performance Low-E Glass.

2. Seal and Spacer Type: Dual sealed insulating glass units with polyisobutylene primary seal, silicone secondary seal and stainless steel spacers.

3. Glass Spacer Color: [**Black**] [**Stainless Steel**]

4. Glass Type: Fully tempered glass, ASTM C1048.

5. Glass Pattern: [**Obscure**] [**Cascade**] [**Reed**] [**Fern**] [**Satin Etch**] [**None**].

Editor Note: Retain article below when windows using Andersen High-Performance Low-E Sun glass are required. Glass type is a significant factor in determining overall window U-Factor. Copy article below for each window type, edit to suit Project and product requirements and re-insert text as many times as needed to describe additional window types. To view the performance values, go to <http://www.andersenwindows.com/for-professionals>

2.5 GLAZING <**Insert window designation(s) used on Drawings**>.

Editor Note: Select required U-Factor in paragraph below and coordinate with required glazing type. U-Factors provided are based on whole-window performance, not on center-of-glass. Coordinate selection below with manufacturer’s product information. Actual unit energy performance values will vary depending upon Performance Grade (PG) rating, unit size, type, glass options, and accessories such as grilles.

A: Thermal Transmission (U-Factor), NFRC 100:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.30 without grilles**] [**0.30 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.32 without grilles**] [**0.32 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.31 without grilles**] [**0.31 with grilles**] <**Insert U-Factor value**>.

B. Solar Heat Gain Coefficient (SHGC), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.20 without grilles**] [**0.18 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.16 without grilles**] [**0.14 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.16 without grilles**] [**0.14 with grilles**] <**Insert SHGC value**>.

C. Visible Light Transmittance (VLT), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.31 without grilles**] [**0.27 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.24 without grilles**] [**0.21 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.24 without grilles**] [**0.21 with grilles**] <**Insert VLT value**>.

Editor Note: Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC) performance varies depending on patio door type and whether standard or upgrade features are specified. Coordinate selection below with manufacturer’s product information.

D. Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC), ASTM E90:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**28/23**] [**29/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

Editor Note: Sound Transmission Class (STC)/Outdoor-Indoor Transmission Classification (OITC) performance varies depending on window type and whether standard or upgrade features are specified. Coordinate selection below with manufacturer’s product information.

D. Sound Transmission Class (STC)/Outdoor-Indoor Transmission Classification (OITC), ASTM E90:

Editor Note: Retain sub-paragraph below for casement or awning windows. In all cases, the second set of optional performance data is for unbalanced glass.

1. [**27/22**] [**30/26 with unbalanced glass**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for single-hung windows.

2. [**25/21**] [**32/26 with unbalanced glass**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for gliding windows.

3. [**25/21**] [**32/27 with unbalanced glass**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for fixed windows.

4. [**26/22**] [**31/26 with unbalanced glass**] <**Insert STC/OITC value**>.

E. Glass Units: Provide insulating glass units certified through [**Insulating Glass Certification Council as conforming to the requirements of IGCC and ASTM E2190**] [**Insulating Glass Manufacturers Alliance of Canada (IGMAC) conforming to the requirements of Canadian General Standards Board CAN/CGSB 12.8**].

1. Manufacturer Designation: Andersen High-Performance Low-E Sun Glass.

2. Seal and Spacer Type: Dual sealed insulating glass units with polyisobutylene primary seal, silicone secondary seal and stainless steel spacers.

3. Glass Spacer Color: [**Black**] [**Stainless Steel**]

4. Glass Type: Fully tempered glass, ASTM C1048.

5. Glass Pattern: [**Obscure**] [**Cascade**] [**Reed**] [**Fern**] [**Satin Etch**] [**None**].

Editor Note: Retain article below when patio doors using Andersen High-Performance Low-E SmartSun glass are required. Glass type is a significant factor in determining overall patio door U-Factor. Copy article below for each patio door type, edit to suit Project and product requirements and re-insert text as many times as needed to describe additional patio door types.

2.5 GLAZING <**Insert patio door designation(s) used on Drawings**>.

Editor Note: Select required U-Factor in paragraph below and coordinate with required glazing type. U-Factors provided are based on whole-patio door performance, not on center-of-glass. Coordinate selection below with manufacturer’s product information. Actual unit performance values will vary depending upon Performance Grade (PG) rating, glass options, accessories such as grilles, unit size and type. Go to [www.AndersenWindows.com](http://www.AndersenWindows.com) to view performance values. Specific performance values indicated below are based on 3.0 mm glass thickness, 1-inch Finelight grilles and Argon gas blend-filled insulated glazing units where applicable, except for clear dual-pane insulated glazing units which are air-filled values.

A: Thermal Transmission (U-Factor), NFRC 100:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.29 without grilles**] [**0.29 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.31 without grilles**] [**0.32 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.31 without grilles**] [**0.31 with grilles**] <**Insert U-Factor value**>.

B. Solar Heat Gain Coefficient (SHGC), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.21 without grilles**] [**0.19 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.17 without grilles**] [**0.15 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.17 without grilles**] [**0.15 with grilles**] <**Insert SHGC value**>.

C. Visible Light Transmittance (VLT), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.50 without grilles**] [**0.44 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.38 without grilles**] [**0.34 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.38 without grilles**] [**0.34 with grilles**] <**Insert VLT value**>.

Editor Note: Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC) performance varies depending on patio door type and whether standard or upgrade features are specified. Coordinate selection below with manufacturer’s product information.

D. Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC), ASTM E90:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**28/23**] [**29/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

E. Glass Units: Provide insulating glass units certified through [**Insulating Glass Certification Council as conforming to the requirements of IGCC and ASTM E2190**] [**Insulating Glass Manufacturers Alliance of Canada (IGMAC) conforming to the requirements of Canadian General Standards Board CAN/CGSB 12.8**].

1. Manufacturer Designation: Andersen High-Performance Low-E SmartSun Glass.

2. Seal and Spacer Type: Dual sealed insulating glass units with polyisobutylene primary seal, silicone secondary seal and stainless steel spacers.

3. Glass Spacer Color: [**Black**] [**Stainless Steel**]

4. Glass Type: Fully tempered glass, ASTM C1048.

5. Glass Pattern: [**Obscure**] [**Cascade**] [**Reed**] [**Fern**] [**Satin Etch**] [**None**].

Editor Note: Retain article below when patio doors using Andersen High-Performance dual-pane glass are required. Glass type is a significant factor in determining overall patio door U-Factor. Copy article below for each patio door type, edit to suit Project and product requirements and re-insert text as many times as needed to describe additional patio door types.

2.6 GLAZING <**Insert patio door designation(s) used on Drawings**>.

Editor Note: Select required U-Factor in paragraph below and coordinate with required glazing type. U-Factors provided are based on whole-patio door performance, not on center-of-glass. Coordinate selection below with manufacturer’s product information. Actual unit performance values will vary depending upon Performance Grade (PG) rating, glass options, accessories such as grilles, unit size and type. Go to [www.AndersenWindows.com](http://www.AndersenWindows.com) to view performance values. Specific performance values indicated below are based on 3.0 mm glass thickness, 1-inch Finelight grilles and Argon gas blend-filled insulated glazing units where applicable, except for clear dual-pane insulated glazing units which are air-filled values. NFRC performance data is not available for windows with upgraded Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC) performance option.

A: Thermal Transmission (U-Factor), NFRC 100:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.46 without grilles**] [**0.46 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.45 without grilles**] [**0.45 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.44 without grilles**] [**0.44 with grilles**] <**Insert U-Factor value**>.

B. Solar Heat Gain Coefficient (SHGC), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.60 without grilles**] [**0.53 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.48 without grilles**] [**0.42 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.47 without grilles**] [**0.42 with grilles**] <**Insert SHGC value**>.

C. Visible Light Transmittance (VLT), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.63 without grilles**] [**0.55 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.49 without grilles**] [**0.44 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.49 without grilles**] [**0.43 with grilles**] <**Insert VLT value**>.

Editor Note: Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC) performance varies depending on patio door type and whether standard or upgrade features are specified. Coordinate selection below with manufacturer’s product information.

D. Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC), ASTM E90:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**28/23**] [**29/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

E. Glass Units: Provide insulating glass units certified through [**Insulating Glass Certification Council as conforming to the requirements of IGCC and ASTM E2190**] [**Insulating Glass Manufacturers Alliance of Canada (IGMAC) conforming to the requirements of Canadian General Standards Board CAN/CGSB 12.8**].

1. Manufacturer Designation: Andersen High-Performance Dual-Pane Glass.

2. Seal and Spacer Type: Dual sealed insulating glass units with polyisobutylene primary seal, silicone secondary seal and stainless steel spacers.

3. Glass Spacer Color: [**Black**] [**Stainless Steel**]

4. Glass Type: Fully tempered glass, ASTM C1048.

5. Glass Pattern: [**Obscure**] [**Cascade**] [**Reed**] [**Fern**] [**Satin Etch**] [**None**].

Editor Note: Retain article below when patio doors using Andersen High-Performance PassiveSun glass are required. Glass type is a significant factor in determining overall patio door U-Factor. Copy article below for each patio door type, edit to suit Project and product requirements and re-insert text as many times as needed to describe additional patio door types.

2.7 GLAZING <**Insert patio door designation(s) used on Drawings**>.

Editor Note: Select required U-Factor in paragraph below and coordinate with required glazing type. U-Factors provided are based on whole-patio door performance, not on center-of-glass. Coordinate selection below with manufacturer’s product information. Actual unit performance values will vary depending upon Performance Grade (PG) rating, glass options, accessories such as grilles, unit size and type. Go to [www.AndersenWindows.com](http://www.AndersenWindows.com) to view performance values. Specific performance values indicated below are based on 3.0 mm glass thickness, 1-inch Finelight grilles and Argon gas blend-filled insulated glazing units where applicable, except for clear dual-pane insulated glazing units which are air-filled values.

A: Thermal Transmission (U-Factor), NFRC 100:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.31 without grilles**] [**0.31 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.32 without grilles**] [**0.33 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.32 without grilles**] [**0.32 with grilles**] <**Insert U-Factor value**>.

B. Solar Heat Gain Coefficient (SHGC), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.53 without grilles**] [**0.47 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.42 without grilles**] [**0.37 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.41 without grilles**] [**0.37 with grilles**] <**Insert SHGC value**>.

C. Visible Light Transmittance (VLT), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.61 without grilles**] [**0.53 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.47 without grilles**] [**0.42 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.47 without grilles**] [**0.42 with grilles**] <**Insert VLT value**>.

Editor Note: Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC) performance varies depending on patio door type and whether standard or upgrade features are specified. Coordinate selection below with manufacturer’s product information.

D. Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC), ASTM E90:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**28/23**] [**29/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

E. Glass Units: Provide insulating glass units certified through [**Insulating Glass Certification Council as conforming to the requirements of IGCC and ASTM E2190**] [**Insulating Glass Manufacturers Alliance of Canada (IGMAC) conforming to the requirements of Canadian General Standards Board CAN/CGSB 12.8**].

1. Manufacturer Designation: Andersen High-Performance PassiveSun Glass.

2. Seal and Spacer Type: Dual sealed insulating glass units with polyisobutylene primary seal, silicone secondary seal and stainless steel spacers.

3. Glass Spacer Color: [**Black**] [**Stainless Steel**]

4. Glass Type: Fully tempered glass, ASTM C1048.

5. Glass Pattern: [**Obscure**] [**Cascade**] [**Reed**] [**Fern**] [**Satin Etch**] [**None**].

Editor Note: Retain article below when patio doors using Andersen High-Performance Low-E with glass with HeatLock technology are required. Glass type is a significant factor in determining overall patio door U-Factor. Copy article below for each patio door type, edit to suit Project and product requirements and re-insert text as many times as needed to describe additional patio door types.

2.8 GLAZING <**Insert patio door designation(s) used on Drawings**>.

Editor Note: Select required U-Factor in paragraph below and coordinate with required glazing type. U-Factors provided are based on whole-patio door performance, not on center-of-glass. Coordinate selection below with manufacturer’s product information. Actual unit performance values will vary depending upon Performance Grade (PG) rating, glass options, accessories such as grilles, unit size and type. Go to [www.AndersenWindows.com](http://www.AndersenWindows.com) to view performance values. Specific performance values indicated below are based on 3.0 mm glass thickness, 1-inch Finelight grilles and Argon gas blend-filled insulated glazing units where applicable, except for clear dual-pane insulated glazing units which are air-filled values.

A: Thermal Transmission (U-Factor), NFRC 100:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.25 without grilles**] [**0.25 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.29 without grilles**] [**0.29 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.28 without grilles**] [**0.28 with grilles**] <**Insert U-Factor value**>.

B. Solar Heat Gain Coefficient (SHGC), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.32 without grilles**] [**0.28 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.25 without grilles**] [**0.22 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.25 without grilles**] [**0.22 with grilles**] <**Insert SHGC value**>.

C. Visible Light Transmittance (VLT), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.54 without grilles**] [**0.47 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.42 without grilles**] [**0.37 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.42 without grilles**] [**0.37 with grilles**] <**Insert VLT value**>.

Editor Note: Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC) performance varies depending on patio door type and whether standard or upgrade features are specified. Coordinate selection below with manufacturer’s product information.

D. Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC), ASTM E90:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**28/23**] [**29/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

E. Glass Units: Provide insulating glass units certified through [**Insulating Glass Certification Council as conforming to the requirements of IGCC and ASTM E2190**] [**Insulating Glass Manufacturers Alliance of Canada (IGMAC) conforming to the requirements of Canadian General Standards Board CAN/CGSB 12.8**].

1. Manufacturer Designation: Andersen High-Performance Low-E Glass with HeatLock Technology.

2. Seal and Spacer Type: Dual sealed insulating glass units with polyisobutylene primary seal, silicone secondary seal and stainless steel spacers.

3. Glass Spacer Color: [**Black**] [**Stainless Steel**]

4. Glass Type: Fully tempered glass, ASTM C1048.

5. Glass Pattern: [**Obscure**] [**Cascade**] [**Reed**] [**Fern**] [**Satin Etch**] [**None**].

Editor Note: Retain article below when patio doors using Andersen High-Performance Low-E SmartSun glass with HeatLock technology are required. Glass type is a significant factor in determining overall patio door U-Factor. Copy article below for each patio door type, edit to suit Project and product requirements and re-insert text as many times as needed to describe additional patio door types.

2.9 GLAZING <**Insert patio door designation(s) used on Drawings**>.

Editor Note: Select required U-Factor in paragraph below and coordinate with required glazing type. U-Factors provided are based on whole-patio door performance, not on center-of-glass. Coordinate selection below with manufacturer’s product information. Actual unit performance values will vary depending upon Performance Grade (PG) rating, glass options, accessories such as grilles, unit size and type. Go to [www.AndersenWindows.com](http://www.AndersenWindows.com) to view performance values. Specific performance values indicated below are based on 3.0 mm glass thickness, 1-inch Finelight grilles and Argon gas blend-filled insulated glazing units where applicable, except for clear dual-pane insulated glazing units which are air-filled values.

A: Thermal Transmission (U-Factor), NFRC 100:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.25 without grilles**] [**0.25 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.28 without grilles**] [**0.29 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.27 without grilles**] [**0.27 with grilles**] <**Insert U-Factor value**>.

B. Solar Heat Gain Coefficient (SHGC), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.21 without grilles**] [**0.19 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.17 without grilles**] [**0.15 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.17 without grilles**] [**0.15 with grilles**] <**Insert SHGC value**>.

C. Visible Light Transmittance (VLT), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.49 without grilles**] [**0.43 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.38 without grilles**] [**0.34 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.37 without grilles**] [**0.33 with grilles**] <**Insert VLT value**>.

Editor Note: Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC) performance varies depending on patio door type and whether standard or upgrade features are specified. Coordinate selection below with manufacturer’s product information.

D. Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC), ASTM E90:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**28/23**] [**29/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

E. Glass Units: Provide insulating glass units certified through [**Insulating Glass Certification Council as conforming to the requirements of IGCC and ASTM E2190**] [**Insulating Glass Manufacturers Alliance of Canada (IGMAC) conforming to the requirements of Canadian General Standards Board CAN/CGSB 12.8**].

1. Manufacturer Designation: Andersen High-Performance Low-E SmartSun Glass with HeatLock Technology.

2. Seal and Spacer Type: Dual sealed insulating glass units with polyisobutylene primary seal, silicone secondary seal and stainless steel spacers.

3. Glass Spacer Color: [**Black**] [**Stainless Steel**]

4. Glass Type: Fully tempered glass, ASTM C1048.

5. Glass Pattern: [**Obscure**] [**Cascade**] [**Reed**] [**Fern**] [**Satin Etch**] [**None**].

Editor Note: Retain article below when patio doors using Andersen High-Performance Low-E PassiveSun glass with HeatLock technology are required. Glass type is a significant factor in determining overall patio door U-Factor. Copy article below for each patio door type, edit to suit Project and product requirements and re-insert text as many times as needed to describe additional patio door types.

2.10 GLAZING <**Insert patio door designation(s) used on Drawings**>.

Editor Note: Select required U-Factor in paragraph below and coordinate with required glazing type. U-Factors provided are based on whole-patio door performance, not on center-of-glass. Coordinate selection below with manufacturer’s product information. Actual unit performance values will vary depending upon Performance Grade (PG) rating, glass options, accessories such as grilles, unit size and type. Go to [www.AndersenWindows.com](http://www.AndersenWindows.com) to view performance values. Specific performance values indicated below are based on 3.0 mm glass thickness, 1-inch Finelight grilles and Argon gas blend-filled insulated glazing units where applicable, except for clear dual-pane insulated glazing units which are air-filled values.

A: Thermal Transmission (U-Factor), NFRC 100:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.26 without grilles**] [**0.26 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.29 without grilles**] [**0.29 with grilles**] <**Insert U-Factor value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.28 without grilles**] [**0.28 with grilles**] <**Insert U-Factor value**>.

B. Solar Heat Gain Coefficient (SHGC), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.49 without grilles**] [**0.43 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.39 without grilles**] [**0.35 with grilles**] <**Insert SHGC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.38 without grilles**] [**0.34 with grilles**] <**Insert SHGC value**>.

C. Visible Light Transmittance (VLT), NFRC 200:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**0.60 without grilles**] [**0.52 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**0.47 without grilles**] [**0.41 with grilles**] <**Insert VLT value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**0.46 without grilles**] [**0.41 with grilles**] <**Insert VLT value**>.

Editor Note: Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC) performance varies depending on patio door type and whether standard or upgrade features are specified. Coordinate selection below with manufacturer’s product information.

D. Sound Transmission Class (STC)/Outboard Inboard Transmission Classification (OITC), ASTM E90:

Editor Note: Retain sub-paragraph below for gliding patio doors.

1. [**28/23**] [**29/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door transoms.

2. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

Editor Note: Retain sub-paragraph below for patio door sidelights.

3. [**29/24**] [**31/26**] <**Insert STC/OITC value**>.

E. Glass Units: Provide insulating glass units certified through [**Insulating Glass Certification Council as conforming to the requirements of IGCC and ASTM E2190**] [**Insulating Glass Manufacturers Alliance of Canada (IGMAC) conforming to the requirements of Canadian General Standards Board CAN/CGSB 12.8**].

1. Manufacturer Designation: Andersen High-Performance Low-E PassiveSun Glass with HeatLock Technology.

2. Seal and Spacer Type: Dual sealed insulating glass units with polyisobutylene primary seal, silicone secondary seal and stainless steel spacers.

3. Glass Spacer Color: [**Black**] [**Stainless Steel**]

4. Glass Type: Fully tempered glass, ASTM C1048.

5. Glass Pattern: [**Obscure**] [**Cascade**] [**Reed**] [**Fern**] [**Satin Etch**] [**None**].

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that all substrate conditions are suitable for installation in compliance with manufacturer’s recommendations.

B. Do not begin installation until substrates have been properly prepared and any conditions not in compliance with manufacturer’s recommendations have been corrected.

3.2 INSTALLATION

A. General: Comply with manufacturer’s product recommendations, including but not limited to the Andersen Unit Installation Guide, installation information in product literature and on product packaging. Comply with Drawings [**and Shop Drawings**] for installing patio doors, hardware, accessories, and other components.

B. Install patio doors plumb, level and square. Anchor patio doors securely to structure in correct orientation to flashing and adjacent construction as indicated. Set sill in sealant or use gaskets to provide air tight and water tight construction. Install patio doors so as to drain water penetration to the exterior.

C. Adjust gliding patio door, insect screens, hardware and accessories as applicable for correct fit. Adjust weatherstrip for smooth operation and weathertight closure.

3.3 FIELD QUALITY CONTROL

A. Manufacturer’s Field Services: If requested by Owner, provide manufacturer’s field service consisting of product use recommendations and periodic site visits for observation of product installation in accordance with manufacturer’s recommendations.

1. Site Visits: <**Insert site visit requirements**>.

Editor Note: Retain article below if field tests for air and water leakage are required. Edit to suit Project requirements including testing services and methodology.

B. Field Testing: Provide field testing of installed units.

1. Test units in compliance with AAMA 502.

2. Use test equipment calibrated according to ASTM E1105.

3.4 CLEANING

A. Refer to manufacturer for guidance on timing for when best to remove protective films and non-permanent labels after installation.

B. Remove excess sealant, soiling, dirt and other substances. Clean patio door frame and glass surfaces. Avoid damaging coatings and finishes.

C. Touch-up, repair or replace glass or other patio door components broken, scratched or damaged during construction prior to Substantial Completion.

D. Remove and lawfully dispose of construction debris from Project site.

3.5 PROTECTION

A. Protect installed patio doors and finish surfaces from damage during construction until completion of Project and acceptance by Owner.

(END OF SECTION 08 16 00 – COMPOSITE DOORS)