Purpose and Applications: This guide specification covers Andersen® MultiGlide™ Aluminum Clad Wood Doors as main components of a sliding glass wall system. These sliding door systems are suitable for new construction, remodeling or replacement applications. These glass door system components are ingredients for a simple indoor/outdoor lifestyle.

Product Features: MultiGlide™ doors from the Andersen Architectural Collection blur the line between indoors and outdoors with an array of styles and configurations for both contemporary and traditional projects. This door will transform any space into something extraordinary. Beyond offering ultimate design freedom, the MultiGlide door provides the innovation you expect from Andersen. Doors are available in stacking and pocketing configurations, in one-directional and two-directional options. Fits openings up to 50 feet wide and 10 feet high.

This Document: This guide specification document is provided by Andersen Corporation as a technical support tool incident to the sale of its products. Andersen is solely responsible for its content. This document should be reviewed and edited to suit Project requirements by a qualified design professional. Performance values expressed in this document may vary based on size, configuration and specified options. Product data contained in this guide specification is accurate as of the date of issue. Due to ongoing product changes, this data may change over time. Consult manufacturer for complete product information.

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: <http://www.andersenwindows.com/for-professionals>

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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. Change Section number and title as needed to suite Project requirements.

SECTION 08 32 00 – SLIDING GLASS DOORS (ALUMINUM CLAD WOOD DOORS)

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes: Gliding glass doors of aluminum and wood construction, for [**interior**] [**and**] [**exterior**] use.

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. American Architectural Manufacturers Association (AAMA):

1. AAMA 2604 – Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels

2. AAMA 2605 – Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels

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

C. ASTM International (ASTM):

1. ASTM B221 – Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

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 E 283 – Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen

5. ASTM E330 – Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.

6. ASTM E331 – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.

7. ASTM E547 – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference.

8. ASTM E2068 – Standard Test Method for Determination of Operating Force of Sliding Windows and Doors.

9. ASTM E2190 – Standard Specification for Insulating Glass Unit Performance and Evaluation.

D. Insulating Glass Certification Council (IGCC): Insulating Glass Unit Certification.

E. Insulating Glass Manufacturers Alliance of Canada (IGMAC) and Canadian General Standards Board (CGSB): Insulating Glass Units Standard CAN/CGSB 12.8-97.

F. 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.

G. 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. Pre-installation Meetings: Conduct pre-installation 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. This product has one combination of options that are PG rated. Consult manufacturer for more information.

A. Structural Performance Requirements:

1. Comply with requirements of NAFS.

2. <**Insert requirements**>.

Editor Note: Project requirements in paragraph below might include but not be limited to criteria from the Authority Having Jurisdiction. Edit to suit Project requirements. This product does not have a coastal option. Consult manufacturer for more information.

B. Windborne Debris Performance Requirements:

1. <**Insert requirements**>

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

C. 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 GreenGlobes, 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.

H. Qualification Statements: For manufacturer and installer.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications:

1. Single manufacturer capable of demonstrating an extended history of at least twenty years of window and door design, production and innovation.

2. Member in good standing of The Insulating Glass Certification Council (IGCC).

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

4. Member in good standing of U.S. Green Building Council.

5. ENERGY STAR Partner.

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

B. Installer Qualifications:

1. Trained and qualified by the door manufacturer to install the products required in this Section.

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

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

4. 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. Mark each door on packing material with the panel and door unit identification number used on Shop Drawings.

C. Storage and Protection: Store materials and accessories in an upright position, protected from exposure to harmful environmental conditions, at temperature and humidity conditions recommended by manufacturer, off the 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, Glass: 20 years.

2. Warranty Period, Non-Glass Components: 10 years.

Editor Note: Retain subparagraph below to require a specific warranty period for exterior finishes and edit to suit Project requirements. Finish warranty periods are as follows: Kynar fluorocarbon coating system 20 years; anodized finish 5 years.

3. Warranty Period, Exterior Finish: [**20 years, Kynar fluorocarbon coating system**] [**5 years, anodized**].

Editor Note: Retain paragraph below if a separate installation warranty, not provided by the manufacturer, is required and edit to suit Project requirements.

B. Special Warranty: Installer's standard form in which installer agrees to repair or replace 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: The article below applies to Andersen Aluminum Clad Wood Doors. Copy article below for each door type, edit to suit Project and product requirements and re-insert text as many times as needed to describe additional door types.

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.

Editor Note: The performance values and ratings indicated within this guide specification represent a variety of typical Andersen product configurations based on testing according to applicable industry standards. The performance of any specific product depends on unit size, glass type and other configuration and material variables. The values indicated may or may not be applicable to Project requirements. Many other product configuration and materials options are available. Consult with an Andersen Product Representative for more information.

Editor Note: Basic features of Andersen Aluminum Clad Wood doors include: 1-3/4 inches thick with exterior facing extruded aluminum and solid wood interior. Minimum panel width 28 inches, maximum panel width 60 inches. Door openings up to 10 feet in height and up to 50 feet in width. Doors utilize 3/16 inch flush sill and 3/4 inch on-floor drainage sill. With use of raised threshold accessory, doors meet performance requirements to NAFS PG30. Not all door configurations have been subjected to specific performance criteria testing. Coordinate with language in “Tested Performance Requirements” paragraph below. Contact manufacturer for more information.

2.1 ALUMINUM CLAD WOOD DOORS <**Insert door designation(s) used on Drawings**>.

A. General: Provide sliding glass doors complying with the performance requirements indicated and tested according to NAFS and operable as follows:

1. During operation door panels shall glide smoothly on wheels providing secure contact with the runner track, with an initiating force of no more than 13 pound feet (58 N) and a maintaining force of no more than 8 pound feet (35 N) when tested according to ASTM E2068.

B. Basis-of-Design Product: Subject to compliance with requirements provide Andersen Corporation: MultiGlide Aluminum Clad Wood Doors.

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

Editor Note: Retain paragraph below when sliding glass doors are required and edit to suit Project requirements. Not all door configurations have been subjected to specific performance criteria testing. Coordinate with language in “Tested Performance Requirements” paragraph below. Contact manufacturer for more information.

D. Door Configuration: [**Stacked**] [**Pocket**] [**One-directional**] [**Two-directional**] <**Insert manufacturer model or part number designation**>.

Editor Note: Retain paragraph below when specific performance criteria and tested results are required, and edit to suit Project requirements. The tested assembly shown below utilized an aluminum frame, aluminum-clad wood panels and on-floor drainage sill with raised threshold. Not all door configurations have been subjected to specific performance criteria testing. Coordinate with language in “Door Configuration” paragraph above. Contact manufacturer for more information.

E. Tested Performance Requirements:

1. Jamb-Jamb: Class LC-PG30, size tested 191 x 95.5 inches; DP +30/30, design pressure plus/minus 1440 Pa (plus/minus 30.08 psf), ASTM E330; air infiltration 0.95 L/s/sq m (0.19 cfm/sq ft), ASTM E331; air exfiltration 0.75 L/s/sq m (0.15 cfm/sq ft), ASTM E283; water penetration resistance test pressure 220 Pa (4.59 psf), ASTM E547.
2. Jamb-Jamb: Class LC-PG30, size tested 178.8 x 95.5 inches; DP +40/40, design pressure plus/minus 1440 Pa (plus/minus 30.08 psf), ASTM E330; air infiltration 0.95 L/s/sq m (0.19 cfm/sq ft), ASTM E331; air exfiltration 0.75 L/s/sq m (0.15 cfm/sq ft), ASTM E283; water penetration resistance test pressure 220 Pa (4.59 psf), ASTM E547.
3. Pocket-Jamb: Class LC-PG30, size tested 191.0 x 119.5 inches; DP +30/30, design pressure plus/minus 1440 Pa (plus/minus 30.08 psf), ASTM E330; air infiltration 0.95 L/s/sq m (0.19 cfm/sq ft), ASTM E331; air exfiltration 0.75 L/s/sq m (0.15 cfm/sq ft), ASTM E283; water penetration resistance test pressure 220 Pa (4.59 psf), ASTM E547.
4. Jamb-Jamb: Class LC-PG30, size tested 362.8 x 96.0 inches; DP +30/30, design pressure plus/minus 1440 Pa (plus/minus 30.08 psf), ASTM E330; air infiltration 0.95 L/s/sq m (0.19 cfm/sq ft), ASTM E331; air exfiltration 0.75 L/s/sq m (0.15 cfm/sq ft), ASTM E283; water penetration resistance test pressure 220 Pa (4.59 psf), ASTM E547.
5. Jamb-Pocket: Class LC-PG30, size tested 362.8 x 96.0 inches; DP +30/30, design pressure plus/minus 1440 Pa (plus/minus 30.08 psf), ASTM E330; air infiltration 0.95 L/s/sq m (0.19 cfm/sq ft), ASTM E331; air exfiltration 0.75 L/s/sq m (0.15 cfm/sq ft), ASTM E283; water penetration resistance test pressure 220 Pa (4.59 psf), ASTM E547.
6. Pocket-Pocket: Class LC-PG30, size tested 362.8 x 96.0 inches; DP +30/30, design pressure plus/minus 1440 Pa (plus/minus 30.08 psf), ASTM E330; air infiltration 0.95 L/s/sq m (0.19 cfm/sq ft), ASTM E331; air exfiltration 0.75 L/s/sq m (0.15 cfm/sq ft), ASTM E283; water penetration resistance test pressure 220 Pa (4.59 psf), ASTM E547.

Editor Note: Retain one sub-paragraph below and edit to suit Project requirements. Two sill types are available; a flush sill and an on-floor drainage sill. Flush sill is designed to project 3/16-inch above finished floor, creating a seamless transition from inside to outside. Finish is clear anodized. Flush sill is not tested for water performance. The on-floor drainage sill is designed with built-in drainage channels, spaced 17 inches to 24 inches depending on overall width. Available in clear or dark bronze anodized finishes.

F. Sill Type and Material:

1. Flush sill, staggered, aluminum alloy, ASTM B221, 6005-T5, marine grade, clear anodized Architectural Class I.

Editor Note: Exterior and interior ramps for on-floor drainage sill help provide accessibility. Designed to meet 3⁄4-inch door threshold requirements for sliding doors, as referenced in ANSI A117.1 Interior ramp cannot be used with optional raised threshold.

2. On-floor drainage sill, continuous [**thermally-controlled**] [**with** **interior ramp**] [**with** **exterior ramp**] [**with raised threshold**], with full length drainage system and transverse drains, aluminum alloy, ASTM B221, 6005-T6, marine grade, [**clear**] [**dark bronze**] anodized Architectural Class I.

Editor Note: Edit paragraph below to suit Project.

G. Head Track Type and Material: Continuous modular design with clip-together sections, aluminum alloy, ASTM B221, 6063-T6, anodized Architectural Class I.

Editor Note: Fiberglass option in paragraph below applies to frame with thermal break.

H. Frame Material: [**Aluminum alloy, ASTM B221, 6063-T6, anodized Architectural Class I**] [**Fiberglass with exterior aluminum cladding**] with interior wood cladding.

I. Door Frame and Panel Configuration: [**Contemporary**] [**Traditional with bottom rail height 4-11/16 inches**] [**Traditional with bottom rail height 8 inches**] [**Traditional with bottom rail height 12 inches**].

Editor Note: Andersen MultiGlide gliding doors are available with factory-applied Kynar fluorocarbon coating system or with anodized finish. Contact manufacturer for more information and available colors.

J. Door Panel Exterior Finish:

Editor Note: Retain sub-paragraph below when painted door panels are required. Edit to suit Project requirements.

1. Painted Finish: Factory-applied Kynar fluorocarbon coating system in compliance with [**AAMA 2604**] [**AAMA 2605**] [**color as selected from manufacturer’s standard colors**] [**custom color as selected and approved by Architect**] [**Colony White**][**White**][**Abalone**][**Balsa White**][**Canvas**][**Maple Syrup**][**Harvest Gold**][**Prairie Grass**][**Flagstone**][**Sandtone**][**Pebble Tan**][**Carmel**][**Terratone**][**Hot Chocolate**][**Bourbon**][**Acorn**][**Coffee Bean**][**Cocoa Bean**][**Sierra Bronze**][**Dark Bronze**][**Clay Canyon**][**Cardinal**][**Bing Cherry**][**Fire Engine Red**][**Cinnamon Toast**][**Red Rock**][**Olive**][**Sage**][**Billiard Green**][**Moss**][**Forest Green**][**Mallard Green**] [**Spearmint**][**Aquamarine**][**Patina**][**Sky Blue**][**Country Blue**][**Blue Denim**][**Watercolor Blue**][**Caribbean Blue**][**Slate**][**Moody Blue**][**Stormy Blue**][**Dove Gray**][**Harbor Mist**][**Yorktown Pewter**][**Smokey Gray**][**Mystic Gray**][**Dark Ash**][**Black**]<**Insert requirements**>.

Editor Note: Retain sub-paragraph below when anodized door panels are required. Edit to suit Project requirements.

2. Anodized Finish: Architectural quality, in compliance with AAMA 611 Class I [**Clear Anodized**] [**Champagne**] [**Light Bronze**] [**Medium Bronze**] [**Copper**] [**Dark Bronze**] [**Black**] <**Insert color**>.

K. Interior Frame and Panel Finish:

1. Wood Species: [**Unfinished**] [**Pine**] [**Maple**] [**Oak**] [**Cherry**] [**Mahogany**] [**Alder**] [**Mixed Grain Douglas Fir**] [**Vertical Grain Douglas Fir**] [**Hickory**] [**Walnut**] [**White Oak**].

Editor Note: Retain when factory-applied interior finish is required.

2. Factory Finish: [**Unfinished**] [**Pine**] [**Maple**] [**Oak**] [**Cherry**] [**Mahogany**] [**Alder**] [**Mixed Grain Douglas Fir**] [**Vertical Grain Douglas Fir**] [**Hickory**] [**Walnut**].

Editor Note: Retain when factory-applied interior painted finish is required.

3. Painted Finish: [**White**] [**Birch Bark**] [**Primed for paint**] [**Canvas**] [**Sandtone**] [**Terratone**] [**Forest Green**] [**Dark Bronze**] [**Dove Gray**] [**Prairie Grass**] [**Red Rock**] [**Cocoa Bean**] [**Black**].

L. Weatherstrip Type: Full-perimeter, for each operable and stationary panel.

M. Hardware:

1. Handle Finish: [**Black**] [**Oil Rubbed Bronze**] [**Satin Nickel**] [**White**].

2. Locking Mechanism: Adjustable two-point locking system equipped with laminated stainless-steel hooks and anti-slam device, [**with** **five-pin keyed exterior lock**] [**non-keyed**].

Editor Note: Premium spring return edge pull is optional on stacking configurations and standard on pocketing configurations to move lead panel out of the pocket. Finish is satin nickel.

3. Edge Pull Type and Finish: Spring return, Satin Nickel.

4. Roller Wheels: Continuously adjustable synthetic roller wheels with stainless-steel ball-bearings, tested 25,000 cycles.

Editor Note: Retain paragraph below when divided lights are required. Grille type and location are a determining factor in overall door thermal performance. Coordinate with required U-Factor in GLAZING Articles below and with manufacturer’s information on product availability.

N. Divided Lights:

Editor Note: Retain sub-paragraph below when Full Divided Light grilles are required and edit to suit Project requirements. Removable interior grille is available in 7/8 inch width only.

1. Type: Full Divided Light: Permanent exterior and interior attachment, spacer between glass panes.

a. Profile: [**Ovolo**] [**Contemporary**].

b. Width: [**7/8 inch**] [**1-1/8 inches**] [**1-1/2 inches**] [**2-1/4 inches**].

c. Grille Spacer Bar Material: [**Stainless-steel**] [**Bronze stainless-steel**] [**None**].

d. Pattern: As shown in Drawings.

e. Exterior Aluminum Color: [**Match gliding door**] <**Insert requirements**>.

f. Interior Wood Species: [**Match gliding door**] <**Insert requirements**>.

g. Interior Wood Finish: [**Match gliding door**] <**Insert requirements**>.

Editor Note: Retain sub-paragraph below when between-glass grilles are required.

2. Type: Finelight grille, factory-installed between glass.

Editor Note: Retain sub-paragraph below when Contour Profile 1-inch-wide between-glass grilles are required.

a. Contour Profile Width and Color: 1-inch wide, [**one-tone to match window**] [**one-tone <Insert requirements>**] [**two-tone White/Dark Bronze**] [**two-tone White/Pebble Tan**] [**two-tone White/Forest Green**] [**As selected from manufacturer’s standard colors**] <**Insert requirements**>.

Editor Note: Retain sub-paragraph below when Contour Profile 3/4-inch-wide between-glass grilles are required.

b. Contour Profile Width and Color: 3/4-inch wide, [**White**] [**Canvas**] [**Black**] [**Sandstone**] [**Pebble Tan**] [**Terratone**] [**Dark Bronze**].

Editor Note: Retain sub-paragraph below when Flat Profile 5/8-inch-wide between-glass grilles are required.

c. Flat Profile Width and Color: 5/8-inch wide, [**White**] [**Black**] [**Pebble Tan**] [**Dark Bronze**] [**Forest Green**].

Editor Note: Retain paragraph below when standard-profile aluminum-framed gliding insect screens or retractable insect screens are required and edit to suit Project requirements. Gliding screen application is dependent on whether door is exterior stacking or interior stacking.

O. Insect Screens:

1. Gliding Screen:
	1. Application: [**Exterior**], [**Interior**].
	2. Size: Based on door frame size.
	3. Aluminum Frame Finish and Color: [**Factory-applied baked-on silicone polyester enamel to match door frame**] [**Anodized to match door frame**].
	4. Aluminum Sill: [**Black**], [**Clear Anodized**].
	5. Insect Screen Material and Color: Fiberglass mesh, charcoal color.
2. Retractable Screen:
	1. Single Screen size: based on door frame size up to 15’-1 1/2” wide x 10’-0 1/4” high.
	2. Double Screen size, based on door frame size up to 29’- 7 1/2” wide x 10’-0 1/4” high.
	3. Aluminum Frame Finish and Color: [**Black**], [**Bronze**], [**White**], [**Clear Anodized**].
	4. Aluminum Sill: [**Black**], [**Clear Anodized**].
	5. Insect Screen Material and Color: Fiberglass mesh, vinyl-coated, charcoal color.

Editor Note: All glazing options indicated below are for argon gas blend-filled cavity with clear glass in a flush sill frame with traditional clad wood panel. Glass type is a significant factor in determining overall door U-Factor. Copy article below for each door type, edit to suit Project and product requirements and re-insert text as many times as needed to describe additional door types. Andersen manufactures many glazing configurations. For more information and for specific product performance data, contact an Andersen representative or visit <http://www.andersenwindows.com/for-professionals>

Editor Note: Retain article below when non-impact-resistant glazing using Andersen Low-E4 glass in a dual-pane configuration is required.

2.2 NON-IMPACT-RESISTANT GLAZING <**Insert 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-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 frame type. Data below assumes no grilles. Visit <http://www.andersenwindows.com/multiglide> to view performance values. Consult an Andersen Product Representative for more information.

A: Thermal Transmission (U-Factor), NFRC 100 (Thermally-Controlled Frame): [**0.30**]<**Insert U-Factor value**>.

B. Solar Heat Gain Coefficient (SHGC), NFRC 200 (Thermally-Controlled Frame): [**0.26**] <**Insert SHGC value**>.

C. Visible Light Transmittance (VLT), NFRC 200 (Thermally-Controlled Frame): [**0.44**] <**Insert VLT value**>.

D: Thermal Transmission (U-Factor), NFRC 100 (Non-Thermally-Controlled Frame): [**0.38**]<**Insert U-Factor value**>.

E. Solar Heat Gain Coefficient (SHGC), NFRC 200 (Non-Thermally-Controlled Frame): [**0.27**] <**Insert SHGC value**>.

F. Visible Light Transmittance (VLT), NFRC 200 (Non-Thermally-Controlled Frame): [**0.44**] <**Insert VLT value**>.

Editor Note: Sound Transmission Class (STC)/Outdoor Indoor Transmission Classification (OITC) performance varies depending on door type and features. Consult Andersen Product Representative for more information.

G. Sound Transmission Class (STC)/Outdoor Indoor Transmission Classification (OITC), ASTM E90: [**29/24**] <**Insert STC/OITC value**>.

H. 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 Low-E4 Glass.

2. Glazing Configuration: Dual-pane, 1 inch overall, argon gas blend-filled cavity.

3. Tint: Clear.

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

5. Glass Type: Fully tempered, ASTM C1048.

Editor Note: Retain article below when non-impact-resistant glazing using Andersen Low-E4 Glass with HeatLock coating in a dual-pane configuration is required.

2.3 NON-IMPACT-RESISTANT GLAZING <**Insert 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-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 frame type. Data below assumes no grilles. Visit <http://www.andersenwindows.com/multiglide> to view performance values. Consult an Andersen Product Representative for more information.

A: Thermal Transmission (U-Factor), NFRC 100 (Thermally Controlled Frame): [**0.27**]<**Insert U-Factor value**>.

B. Solar Heat Gain Coefficient (SHGC), NFRC 200 (Thermally Controlled Frame): [**0.26**] <**Insert SHGC value**>.

C. Visible Light Transmittance (VLT), NFRC 200 (Thermally Controlled Frame): [**0.43**] <**Insert VLT value**>.

D: Thermal Transmission (U-Factor), NFRC 100 (Non-Thermally Controlled Frame): [**0.34**]<**Insert U-Factor value**>.

E. Solar Heat Gain Coefficient (SHGC), NFRC 200 (Non-Thermally Controlled Frame): [**0.26**] <**Insert SHGC value**>.

F. Visible Light Transmittance (VLT), NFRC 200 (Non-Thermally Controlled Frame): [**0.43**] <**Insert VLT value**>.

Editor Note: Sound Transmission Class (STC)/Outdoor Indoor Transmission Classification (OITC) performance varies depending on door type and features. Consult Andersen Product Representative for more information.

G. Sound Transmission Class (STC)/Outdoor Indoor Transmission Classification (OITC), ASTM E90 (Thermal-Control Frame): [**29/24**] <**Insert STC/OITC value**>.

H. 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 Low-E4 Glass with HeatLock coating.

2. Glazing Configuration: Dual-pane, 1 inch overall, argon gas blend-filled cavity.

3. Tint: Clear.

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

5. Glass Type: Fully tempered, ASTM C1048.

Editor Note: Retain article below when non-impact-resistant glazing using Andersen Low-E4 SmartSun glass in a dual-pane configuration is required.

2.4 NON-IMPACT-RESISTANT GLAZING <**Insert 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-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 frame type. Data below assumes no grilles. Visit <http://www.andersenwindows.com/multiglide> to view performance values. Consult an Andersen Product Representative for more information.

A: Thermal Transmission (U-Factor), NFRC 100 (Thermally Controlled Frame): [**0.30**]<**Insert U-Factor value**>.

B. Solar Heat Gain Coefficient (SHGC), NFRC 200 (Thermally Controlled Frame): [**0.18**] <**Insert SHGC value**>.

C. Visible Light Transmittance (VLT), NFRC 200 (Thermally Controlled Frame): [**0.40**] <**Insert VLT value**>.

D: Thermal Transmission (U-Factor), NFRC 100 (Non-Thermally Controlled Frame): [**0.37**]<**Insert U-Factor value**>.

E. Solar Heat Gain Coefficient (SHGC), NFRC 200 (Non-Thermally Controlled Frame): [**0.18**] <**Insert SHGC value**>.

F. Visible Light Transmittance (VLT), NFRC 200 (Non-Thermally Controlled Frame): [**0.40**] <**Insert VLT value**>.

Editor Note: Sound Transmission Class (STC)/Outdoor Indoor Transmission Classification (OITC) performance varies depending on door type and features. Consult Andersen Product Representative for more information.

G. Sound Transmission Class (STC)/Outdoor Indoor Transmission Classification (OITC), ASTM E90: [**29/24**] <**Insert STC/OITC value**>.

H. 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 Low-E4 SmartSun Glass.

2. Glazing Configuration: Dual-pane, 1 inch overall, argon gas blend-filled cavity.

3. Tint: Clear.

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

5. Glass Type: Fully tempered, ASTM C1048.

Editor Note: Retain article below when non-impact-resistant glazing using Andersen Low-E4 SmartSun Glass with HeatLock Coating in a dual-pane configuration is required.

2.5 NON-IMPACT-RESISTANT GLAZING <**Insert 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-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 frame type. Data below assumes no grilles. Visit <http://www.andersenwindows.com/multiglide> to view performance values. Consult an Andersen Product Representative for more information.

A: Thermal Transmission (U-Factor), NFRC 100 (Thermally Controlled Frame): [**0.27**]<**Insert U-Factor value**>.

B. Solar Heat Gain Coefficient (SHGC), NFRC 200 (Thermally Controlled Frame): [**0.15**] <**Insert SHGC value**>.

C. Visible Light Transmittance (VLT), NFRC 200 (Thermally Controlled Frame): [**0.34**] <**Insert VLT value**>.

D: Thermal Transmission (U-Factor), NFRC 100 (Non-Thermally Controlled Frame): [**0.34**]<**Insert U-Factor value**>.

E. Solar Heat Gain Coefficient (SHGC), NFRC 200 (Non-Thermally Controlled Frame): [**0.16**] <**Insert SHGC value**>.

F. Visible Light Transmittance (VLT), NFRC 200 (Non-Thermally Controlled Frame): [**0.34**] <**Insert VLT value**>.

Editor Note: Sound Transmission Class (STC)/Outdoor Indoor Transmission Classification (OITC) performance varies depending on door type and features. Consult Andersen Product Representative for more information.

G. Sound Transmission Class (STC)/Outdoor Indoor Transmission Classification (OITC), ASTM E90: [**29/24**] <**Insert STC/OITC value**>.

H. 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 Low-E4 SmartSun Glass with HeatLock Coating.

2. Glazing Configuration: Dual-pane, 1 inch overall, argon gas blend-filled cavity.

3. Tint: Clear.

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

5. Glass Type: Fully tempered, ASTM C1048.

Editor Note: Retain article below when non-impact-resistant glazing using Andersen Low-E4 glass in a triple-pane configuration is required.

2.6 NON-IMPACT-RESISTANT GLAZING <**Insert 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-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 frame type. Data below assumes no grilles. Visit <http://www.andersenwindows.com/multiglide> to view performance values. Consult an Andersen Product Representative for more information.

A: Thermal Transmission (U-Factor), NFRC 100 (Thermally Controlled Frame): [**0.27**]<**Insert U-Factor value**>.

B. Solar Heat Gain Coefficient (SHGC), NFRC 200 (Thermally Controlled Frame): [**0.30**] <**Insert SHGC value**>.

C. Visible Light Transmittance (VLT), NFRC 200 (Thermally Controlled Frame): [**0.50**] <**Insert VLT value**>.

D: Thermal Transmission (U-Factor), NFRC 100 (Non-Thermally Controlled Frame): [**0.35**]<**Insert U-Factor value**>.

E. Solar Heat Gain Coefficient (SHGC), NFRC 200 (Non-Thermally Controlled Frame): [**0.30**] <**Insert SHGC value**>.

F. Visible Light Transmittance (VLT), NFRC 200 (Non-Thermally Controlled Frame): [**0.50**] <**Insert VLT value**>.

Editor Note: Sound Transmission Class (STC)/Outdoor Indoor Transmission Classification (OITC) performance varies depending on door type and features. Consult Andersen Product Representative for more information.

G. Sound Transmission Class (STC)/Outdoor Indoor Transmission Classification (OITC), ASTM E90: <**Insert STC/OITC value**>.

H. 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 Low-E4 Glass.

2. Glazing Configuration: Triple-pane, 1 inch overall, argon gas blend-filled cavity.

3. Tint: Clear.

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

5. Glass Type: Fully tempered, ASTM C1048.

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 technical bulletins, and installation instructions in product literature and on product packaging. Comply with Drawings [**and Shop Drawings**] for installing runner tracks, doors, hardware, accessories, and other components.

B. Install doors plumb, level and square. Anchor doors securely to structure in correct orientation to adjacent construction as indicated. Comply with product installation instructions for proper flashing integration into wall system. Install doors so as to drain condensation and moisture penetration to the exterior.

C. Adjust gliding doors, insect screens, hardware and accessories as applicable for correct fit. Adjust weatherstrip for smooth operation and weather-tight 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**>.

3.4 CLEANING

A. Remove protective films and non-permanent labels prior to 90 days after installation.

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

C. Touch-up, repair or replace glass or other 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 doors and finish surfaces from damage during construction until completion of Project and acceptance by Owner.

(END OF SECTION 08 32 00 – SLIDING GLASS DOORS)