SECTION 08 11 17

PIVOT DOORS, ALUMINUM AND WOOD

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\*\* NOTE TO SPECIFIER \*\* Panda Windows & Doors; aluminum french and pivot doors.
This section is based on the products of Panda Windows & Doors, which is located at:
3415 Bellington Rd.
N. Las Vegas, NV 89030
Tel: 702-643-5700
Fax: 702-643-5715
Email: [request info (Marketing@panda-windows.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Panda+Windows+%26+Doors&coid=46039&rep=&fax=702-643-5715&message=RE:%20Spec%20Question%20(08121pnd):%20%20&mf=)
Web: <http://www.panda-windows.com>
 [ [Click Here](http://www.arcat.com/arcatcos/cos46/arc46039.html) ] for additional information.
Panda Windows & Doors focuses on engineering state-of-the-art, innovative products that unite the inside with the outside. Each door is engineered to the highest standards and custom manufactured. We offer a full range of options and finishes to appeal to even the most discerning customer. Panda Windows & Doors™ is passionate about developing products that magically transform any architectural design, from home projects to commercial endeavors.
Over two decades of innovative design.
Headquarters located in fabulous Las Vegas.
Our passion shows in every one of our products.
Expert customer service available every step of the way.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Pivot Doors:
			1. All aluminum. (S.20 Pivot, S.21 Pivot)
			2. Aluminum, thermally broken. (TS.64 Pivot, TS.68 Pivot)
			3. Wood clad aluminum. (S.22 Pivot)
			4. Wood clad aluminum, thermally broken. (TS.69 Pivot)
			5. Solid Wood. (S.23)
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 03 30 00 - Cast-in-Place Concrete.
		2. Section 07 60 00 - Flashing and Sheet Metal.
		3. Section 07 91 23 - Backer Rods.
		4. Section 10 21 13.40 - Stone Toilet Compartments.
		5. Section 08 34 63.33 - Detention Door Frame Protection.
		6. Section 08 34 63 - Detention Doors and Frames.
		7. Section - .
		8. Section 08 51 13 - Aluminum Windows.
		9. Section 08 70 00 - Hardware.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
			1. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles and Tubes.

\*\* NOTE TO SPECIFIER \*\* Retain ASTM C1172 reference only if laminated glass is specified.

* + - 1. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass.
			2. ASTM E1423 - Standard Practice for Determining Steady State Thermal Transmittance of Fenestration Systems.
			3. ASTM E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation.
		1. American Architectural Manufacturers Association (AAMA):
			1. AAMA/WDMA/CSA 101/I.S.2/A440 - Standard Specification for Windows, Doors, and Unit Skylights.
			2. AAMA 1503 - Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections.
			3. AAMA 2604 - Voluntary Specifications, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.
			4. AAMA 2605 - Voluntary Specifications, Performance Requirements and Test Procedures for Superior Performance Organic Coatings on Aluminum Extrusions and Panels.
		2. American National Standards Institute (ANSI):
			1. ANSI Z97.1 - Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test.
		3. Consumer Product Safety Commission (CPSC):
			1. CPSC 16 CFR 1201 - Safety Standard for Architectural Glazing Materials.
		4. Glass Association of North America (GANA):
			1. GANA Glazing Manual.
		5. National Fenestration Rating Council (NFRC):
			1. NFRC 100 - Procedure for Determining Fenestration Product U-Factors.
			2. NFRC 102 - Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems.
			3. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficients and Visible Transmittance at Normal Incidence.
			4. NFRC 500 - Procedure for Determining Fenestration Product Condensation Resistance Values.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data:
			1. Manufacturer's data sheets on each product to be used.
			2. Preparation instructions and recommendations.
			3. Storage and handling requirements and recommendations.
			4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete if not applicable to product type.

* + 1. Verification Samples:
			1. Two 6 inch (152 mm) samples of window profile.
			2. Two 12 x 12 inches (304 x 304 mm) samples of glazing.
			3. Two sample chips of frame finish.
		2. Shop Drawings: Include details of materials, measurements, hardware, glass, and finish. Include relationship with adjacent construction upon request.
		3. Design Data: Engineering data illustrating compliance with specified design and performance criteria. Have submittal signed and sealed by a Licensed Professional Engineer.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
		2. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
		3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
			1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
			2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
			3. Retain mock-up during construction as a standard for comparison with completed work.
			4. Do not alter or remove mock-up until work is completed or removal is authorized.
	1. PRE-INSTALLATION CONFERENCE
		1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Deliver materials in manufacturer's original packaging with identification labels intact and in sizes to suit project.
		2. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
			1. Store product flat in dry well-ventilated area protected from exposure to harmful weather conditions and at temperature conditions recommended by manufacturer.
		3. Prior to installation, keep the protective film to prevent product from getting scratched or damaged by dirt and debris. Remove as recommended by Manufacturer following installation.
		4. Protect from damage due to weather, excessive temperature, and construction operations.
	3. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Panda Windows & Doors, which is located at: 3415 Bellington Rd.; N. Las Vegas, NV 89030; Tel: 702-643-5700; Fax: 702-643-5715; Email: [request info (Marketing@panda-windows.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Panda+Windows+%26+Doors&coid=46039&rep=&fax=702-643-5715&message=RE:%20Spec%20Question%20(08121pnd):%20%20&mf=); Web: <http://www.panda-windows.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
	1. PERFORMANCE REQUIREMENTS
		1. Standards Compliance:
			1. Comply with the recommendations of the GANA Glazing Manual.
			2. Safety Glazing Requirements: Per ANSI Z97.1 and CPSC 16CFR 1201.
			3. Laminated Glass Requirements: ASTM C 1172.
			4. Insulating Glass Unit Requirements: ASTM E 2190.
			5. Aluminum Profiles: 6063-T5 extruded aluminum per ASTM B221.
		2. Thermal Movement: Design to allow movement based on the following:

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

* + - 1. Ambient Temperature: 120 degrees F (49 degrees C).
			2. Ambient Temperature (F/C): \_\_\_\_\_\_\_\_.
			3. Surface Temperature: 180 degrees F (82 degrees C).
			4. Surface Temperature: (F/C): \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. ALL ALUMINUM PIVOT DOORS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Aluminum S.20 as manufactured by Panda Windows and Doors:
			1. Material: Aluminum extrusions.

\*\* NOTE TO SPECIFIER \*\* Delete panel configuration options not required.

* + - 1. Panel Configuration: Single pivot door.
			2. Panel Configuration: Double pivot door.

\*\* NOTE TO SPECIFIER \*\* Maximum panel size is x 14 feet (2438 x 4267 mm). Delete panel size options not required.

* + - 1. Panel Size: \_\_\_\_\_.
			2. Panel Size: As indicated on Drawings.
			3. Stile and Rail Profile Width: 3-7/16 inches (87 mm).
			4. Stile and Rail Profile Thickness or Depth: 2-5/8 inches (67 mm).
			5. Jamb Width: 2-5/8 inches (67 mm).
			6. Header Height: 2-5/8 inches (67 mm).

\*\* NOTE TO SPECIFIER \*\* Delete threshold option not required.

* + - 1. Threshold: 3/8 inch (9.5 mm) ADA Compliant thermally broken.
			2. Threshold: No track.
			3. Weight of Door Panel: Approximately 7 to 8 lbs per sq ft (34 to 39 kg per sq. meter) depending on overall panel size and glass configuration.

\*\* NOTE TO SPECIFIER \*\* Delete glass thickness option not required.

* + - 1. Glass Thickness: 5/8 inch (16 mm).
			2. Glass Thickness: 1 inch (25 mm); standard.

\*\* NOTE TO SPECIFIER \*\* Delete divided lites option not required.

* + - 1. Divided Lites: Horizontal True Dividers.
			2. Divided Lites: Simulated Divided Lites.
		1. Basis of Design: Aluminum S.21 as manufactured by Panda Windows and Doors:
			1. Material: Aluminum extrusions.

\*\* NOTE TO SPECIFIER \*\* Delete panel configuration options not required.

* + - 1. Panel Configuration: Single pivot door.
			2. Panel Configuration: Double pivot door.

\*\* NOTE TO SPECIFIER \*\* Delete panel size options not required.

* + - 1. Panel Size: \_\_\_\_\_.
			2. Panel Size: As indicated on Drawings.
			3. Stile and Rail Profile Width: 2-7/16 inch (62 mm)
			4. Stile and Rail Profile Thickness or Depth: 2-5/8 inch (67 mm).
			5. Jamb Width: 1-9/16 inch (40 mm).
			6. Header Height: 1-9/16 inch (40 mm).

\*\* NOTE TO SPECIFIER \*\* Delete threshold option not required.

* + - 1. Threshold: 3/8 inch (9.5 mm) ADA Compliant thermally broken.
			2. Threshold: No track.

\*\* NOTE TO SPECIFIER \*\* Delete glass thickness options not required.

* + - 1. Glass Thickness: 5/8 inch (16 mm).
			2. Glass Thickness: 1 inch (25 mm); standard.

\*\* NOTE TO SPECIFIER \*\* Delete divided lites option not required.

* + - 1. Divided Lites: Horizontal True Dividers.
			2. Divided Lites: Simulated Divided Lites.
		1. Hardware:

\*\* NOTE TO SPECIFIER \*\* Delete hinge options not required.

* + - 1. Hinges: Black.
			2. Hinges: Powder coat finish.
			3. Hinges: \_\_\_\_\_\_.
			4. Door Handles: Manufacturer's standard shape with ergonomic grip on inside and out and lock set with profile cylinder. Three point locking hardware.

\*\* NOTE TO SPECIFIER \*\* Aria and Acacia are not available in Silver or Brass. Summit is not available in White or Black. Delete style and color options not required.

* + - * 1. Style: Aria.
				2. Style: Acacia.
				3. Style: Summit.
				4. Color: White.
				5. Color: Bronze.
				6. Color: Black.
				7. Color: Brushed chrome.
				8. Color: Satin chrome.
				9. Color: Silver.
				10. Color: Brass.
			1. Locking: Stainless steel multi-point locking hardware.
			2. Operating Mechanism: A multi-point lock with handle from Manufacturer's standard options.
			3. Gasketing: Manufacturer's standard EPDM gasket and dense felt brushes.
		1. Glazing:
			1. Glass Type: Low-E-coated, Insulating Glass Units.
				1. Low-E Coating: \_\_\_\_\_.
				2. Air Space: \_\_\_\_\_.
				3. U-Factor per AAMA1503/ASTM E1423/NFRC 100: \_\_\_\_\_.
				4. Condensation Resistance per AAMA1503/NFRC 500: \_\_\_\_\_.
				5. Tint: \_\_\_\_\_.
				6. Solar Heat Gain Coefficient (SHGC) per NFRC 200: \_\_\_\_\_.
				7. Visible Light Transmittance (VT): \_\_\_\_\_.
		2. Fabrication: Fabricate aluminum components before finishing.
			1. Fabricate aluminum-framed glass doors for openings indicated.
			2. Glazing: Glaze door panels in the factory.
			3. Complete assembly, finishing and hardware application to greatest extent possible in the factory.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. ALL ALUMINUM, THERMALLY BROKEN PIVOT DOORS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Aluminum, Thermally Broken TS.64 as manufactured by Panda Windows and Doors:
			1. Performance Criteria:
				1. NFRC 100/200/500:

\*\* NOTE TO SPECIFIER \*\* See Manufacturer's data for different glazing systems. Modify as required for glazing selected or specify in glazing paragraph below.

U-Factor: \_\_\_\_.

Solar Heat Gain Coefficient (SHGC): \_\_\_\_.

Visible Transmittance (VT): \_\_\_\_.

Condensation Resistance: \_\_\_\_.

Tested Unit: \_\_\_\_.

Tested Glazing: \_\_\_\_.

* + - 1. Material: Aluminum extrusions.

\*\* NOTE TO SPECIFIER \*\* Delete configuration options not required.

* + - 1. Panel Configuration: Single pivot door.
			2. Panel Configuration: Double pivot door.

\*\* NOTE TO SPECIFIER \*\* Delete panel size options not required.

* + - 1. Panel Size: \_\_\_\_\_.
			2. Panel Size: As indicated on Drawings.
			3. Stile and Rail Profile Width: 2-7/16 inch (62 mm).
			4. Stile and Rail Profile Thickness or Depth: 2-15/16 inch (75 mm).
			5. Jamb Width: 1-9/16 inch (40 mm).
			6. Header Height: 1-9/16 inch (40 mm).
			7. Threshold: 3/8 inch (9.5 mm) ADA Compliant thermally broken.
			8. Threshold: No track.

\*\* NOTE TO SPECIFIER \*\* Delete glass thickness options not required.

* + - 1. Glass Thickness: 1-1/4 inch (32 mm).
			2. Glass thickness: 15/16 inch (24 mm).
			3. Glass thickness: 1-15/16 inch; standard.

\*\* NOTE TO SPECIFIER \*\* Delete divided lites option not required.

* + - 1. Divided Lites: Horizontal True Dividers.
			2. Divided Lites: Simulated Divided Lites.
		1. Basis of Design: Aluminum, Thermally Broken TS.68 as manufactured by Panda Windows and Doors:
			1. Performance Criteria:
				1. NFRC 100/200/500:

\*\* NOTE TO SPECIFIER \*\* See Manufacturer's data for different glazing systems. Modify as required for glazing selected or specify in glazing paragraph below.

U-Factor: 0.48.

Solar Heat Gain Coefficient (SHGC): 0.42.

Visible Transmittance (VT): 0.48.

Condensation Resistance: 38.

Tested Unit: Inswing French door.

Tested Glazing: Double pane 3/16 inch (4.8 mm) and 1/4 inch (6 mm) glazing, 0.938 inch (24 mm) air space, low-E coating on No. 2 surface.

* + - 1. Material: Aluminum extrusions.

\*\* NOTE TO SPECIFIER \*\* Delete configuration options not required.

* + - 1. Panel Configuration: Single pivot door.
			2. Panel Configuration: Double pivot door.

\*\* NOTE TO SPECIFIER \*\* Maximum panel size for pivot doors is x 14 feet (2438 x 4267 mm). Delete panel size options not required.

* + - 1. Panel Size: \_\_\_\_\_.
			2. Panel Size: As indicated on Drawings.
			3. Stile and Rail Profile Width: 3-7/16 inches (87 mm).
			4. Stile and Rail Profile Thickness or Depth: 2-15/16 inches (75 mm).
			5. Jamb Width: 2-5/8 inches (67 mm).
			6. Header Height: 2-5/8 inches (67 mm).

\*\* NOTE TO SPECIFIER \*\* Delete threshold option not required.

* + - 1. Threshold: 3/8 inch (9.5 mm) ADA Compliant thermally broken.
			2. Threshold: No track.
			3. Weight of Door Panel: Approximately 7 to 8 lbs per sq ft (34 to 39 kg per sq. meter) depending on overall panel size and glass configuration.

\*\* NOTE TO SPECIFIER \*\* Delete glass thickness options not required.

* + - 1. Glass Thickness: 1-1/4 inch (32 mm).
			2. Glass Thickness: 15/16 inch.
			3. Glass Thickness: 1-15/16 inch; standard.

\*\* NOTE TO SPECIFIER \*\* Delete divided lites option not required.

* + - 1. Divided Lites: Horizontal True Dividers.
			2. Divided Lites: Simulated Divided Lites.
		1. Hardware:

\*\* NOTE TO SPECIFIER \*\* Delete hinge options not required.

* + - 1. Hinges: Black.
			2. Hinges: Powder coat finish.
			3. Hinges: \_\_\_\_\_\_.
			4. Door Handles: Manufacturer's standard shape with ergonomic grip on inside and out and lock set with profile cylinder. Three point locking hardware.

\*\* NOTE TO SPECIFIER \*\* Aria and Acacia are not available in Silver or Brass. Summit is not available in White or Black. Delete style and color options not required.

* + - * 1. Style: Aria.
				2. Style: Acacia.
				3. Style: Summit.
				4. Color: White.
				5. Color: Bronze.
				6. Color: Black.
				7. Color: Brushed chrome.
				8. Color: Satin chrome.
				9. Color: Silver.
				10. Color: Brass.
			1. Locking: Stainless steel multi-point locking hardware.
			2. Operating Mechanism: A multi-point lock with handle from Manufacturer's standard options.
			3. Gasketing: Manufacturer's standard EPDM gasket and dense felt brushes.
		1. Glazing:
			1. Glass Type: Low-E-coated, Insulating Glass Units.
				1. Low-E Coating: \_\_\_\_\_.
				2. Air Space: \_\_\_\_\_.
				3. U-Factor per AAMA1503/ASTM E1423/NFRC 100: \_\_\_\_\_.
				4. Condensation Resistance per AAMA1503/NFRC 500: \_\_\_\_\_.
				5. Tint: \_\_\_\_\_.
				6. Solar Heat Gain Coefficient (SHGC) per NFRC 200: \_\_\_\_\_.
				7. Visible Light Transmittance (VT): \_\_\_\_\_.
		2. Fabrication: Fabricate aluminum components before finishing.
			1. Fabricate aluminum-framed glass doors for openings indicated.
			2. Glazing: Glaze door panels in the factory.
			3. Frames: 1/8 inch (3 mm) extrusions with thermal break of 15/16 (24 mm) polyamide.
			4. Complete assembly, finishing and hardware application to greatest extent possible in the factory.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. WOOD CLAD ALUMINUM PIVOT DOORS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Wood Clad Aluminum S.22 as manufactured by Panda Windows and Doors:
			1. Material: Aluminum extrusions with wood cladding.
			2. Interior Cladding: Unfinished Wood.

\*\* NOTE TO SPECIFIER \*\* Delete species options not required.

* + - * 1. Species: To be selected by Architect.
				2. Species: Pine.
				3. Species: Poplar.
				4. Species: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete configuration options not required.

* + - 1. Panel Configuration: Single pivot door.
			2. Panel Configuration: Double pivot door.

\*\* NOTE TO SPECIFIER \*\* Maximum panel size is x 14 feet (2438 x 4267 mm). Delete panel size options not required.

* + - 1. Panel Size: \_\_\_\_\_.
			2. Panel Size: As indicated on Drawings.
			3. Stile and Rail Profile Width: 3-7/16 inches (87 mm).
			4. Stile and Rail Profile Thickness or Depth: 3-1/8 inches (79 mm).
			5. Jamb Width: 2-5/8 inches (67 mm).
			6. Header Height: 2-5/8 inches (67 mm).

\*\* NOTE TO SPECIFIER \*\* Delete threshold option not required.

* + - 1. Threshold: 3/8 inch (9.5 mm) ADA Compliant thermally broken.
			2. Threshold: No track.
			3. Weight of Door Panel: Approximately 7 to 8 lbs per sq ft (34 to 39 kg per sq. meter) depending on overall panel size and glass configuration.

\*\* NOTE TO SPECIFIER \*\* Delete glass thickness option not required.

* + - 1. Glass Thickness: 1-1/4 inch (32 mm).
			2. Glass Thickness: 1-15/16 inch; standard.

\*\* NOTE TO SPECIFIER \*\* Delete divided lites option not required.

* + - 1. Divided Lites: Horizontal True Dividers.
			2. Divided Lites: Simulated Divided Lites.
		1. Hardware:

\*\* NOTE TO SPECIFIER \*\* Delete hinge options not required.

* + - 1. Hinges: Black.
			2. Hinges: Powder coat finish.
			3. Hinges: \_\_\_\_\_\_.
			4. Door Handles: Manufacturer's standard shape with ergonomic grip on inside and out and lock set with profile cylinder. Three point locking hardware.

\*\* NOTE TO SPECIFIER \*\* Aria and Acacia are not available in Silver or Brass. Summit is not available in White or Black. Delete style and color options not required.

* + - * 1. Style: Aria.
				2. Style: Acacia.
				3. Style: Summit.
				4. Color: White.
				5. Color: Bronze.
				6. Color: Black.
				7. Color: Brushed chrome.
				8. Color: Satin chrome.
				9. Color: Silver.
				10. Color: Brass.
			1. Locking: Stainless steel multi-point locking hardware.
			2. Operating Mechanism: A multi-point lock with handle from Manufacturer's standard options.
			3. Gasketing: Manufacturer's standard EPDM gasket and dense felt brushes.
		1. Glazing:
			1. Glass Type: Low-E-coated, Insulating Glass Units.
				1. Low-E Coating: \_\_\_\_\_.
				2. Air Space: \_\_\_\_\_.
				3. U-Factor per AAMA1503/ASTM E1423/NFRC 100: \_\_\_\_\_.
				4. Condensation Resistance per AAMA1503/NFRC 500: \_\_\_\_\_.
				5. Tint: \_\_\_\_\_.
				6. Solar Heat Gain Coefficient (SHGC) per NFRC 200: \_\_\_\_\_.
				7. Visible Light Transmittance (VT): \_\_\_\_\_.
		2. Fabrication: Fabricate aluminum components before finishing.
			1. Fabricate aluminum-framed glass doors for openings indicated.
			2. Glazing: Glaze door panels in the factory.
			3. Complete assembly, finishing and hardware application to greatest extent possible in the factory.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. WOOD CLAD ALUMINUM, THERMALLY BROKEN PIVOT DOORS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Wood Clad Aluminum, Thermally Broken TS.69 as manufactured by Panda Windows and Doors:
			1. Material: Aluminum extrusions with wood cladding.
			2. Interior Cladding: Unfinished Wood.

\*\* NOTE TO SPECIFIER \*\* Delete species options not required.

* + - * 1. Species: To be selected by Architect.
				2. Species: Pine.
				3. Species: Poplar.
				4. Species: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete configuration options not required.

* + - 1. Panel Configuration: Single pivot door.
			2. Panel Configuration: Double pivot door.

\*\* NOTE TO SPECIFIER \*\* Maximum panel size is x 14 feet (2438 x 4267 mm). Delete panel size options not required.

* + - 1. Panel Size: \_\_\_\_\_.
			2. Panel Size: 8 x 14 feet (2438 x 4267 mm).
			3. Panel Size: As indicated on Drawings.
			4. Stile and Rail Profile Width: 3-7/16 inches (87 mm).
			5. Stile and Rail Profile Thickness or Depth: 3-1/8 inches (79 mm).
			6. Jamb Width: 2-5/8 inches (67 mm).
			7. Header Height: 2-5/8 inches (67 mm).

\*\* NOTE TO SPECIFIER \*\* Delete threshold option not required.

* + - 1. Threshold: 3/8 inch (9.5 mm) ADA Compliant thermally broken.
			2. Threshold: No track.
			3. Weight of Door Panel: Approximately 7 to 8 lbs per sq ft (34 to 39 kg per sq. meter) depending on overall panel size and glass configuration.

\*\* NOTE TO SPECIFIER \*\* Delete glass thickness option not required.

* + - 1. Glass Thickness: 1-1/4 inch (32 mm).
			2. Glass Thickness: 1-15/16 inch; standard.

\*\* NOTE TO SPECIFIER \*\* Delete divided lite option not required.

* + - 1. Divided Lites: Horizontal True Dividers.
			2. Divided Lites: Simulated Divided Lites.
		1. Hardware:

\*\* NOTE TO SPECIFIER \*\* Delete hinge options not required.

* + - 1. Hinges: Black.
			2. Hinges: Powder coat finish.
			3. Hinges: \_\_\_\_\_\_.
			4. Door Handles: Manufacturer's standard shape with ergonomic grip on inside and out and lock set with profile cylinder. Three point locking hardware.

\*\* NOTE TO SPECIFIER \*\* Aria and Acacia are not available in Silver or Brass. Summit is not available in White or Black. Delete style and color options not required.

* + - * 1. Style: Aria.
				2. Style: Acacia.
				3. Style: Summit.
				4. Color: White.
				5. Color: Bronze.
				6. Color: Black.
				7. Color: Brushed chrome.
				8. Color: Satin chrome.
				9. Color: Silver.
				10. Color: Brass.
			1. Locking: Stainless steel multi-point locking hardware.
			2. Operating Mechanism: A multi-point lock with handle from Manufacturer's standard options.
			3. Gasketing: Manufacturer's standard EPDM gasket and dense felt brushes.
		1. Glazing:
			1. Glass Type: Low-E-coated, Insulating Glass Units.
				1. Low-E Coating: \_\_\_\_\_.
				2. Air Space: \_\_\_\_\_.
				3. U-Factor per AAMA1503/ASTM E1423/NFRC 100: \_\_\_\_\_.
				4. Condensation Resistance per AAMA1503/NFRC 500: \_\_\_\_\_.
				5. Tint: \_\_\_\_\_.
				6. Solar Heat Gain Coefficient (SHGC) per NFRC 200: \_\_\_\_\_.
				7. Visible Light Transmittance (VT): \_\_\_\_\_.
		2. Fabrication: Fabricate aluminum components before finishing.
			1. Fabricate aluminum-framed glass doors for openings indicated.
			2. Glazing: Glaze door panels in the factory.
			3. Frames: 1/8 inch (3 mm) extrusions with thermal break of 15/16 (24 mm) polyamide.
			4. Complete assembly, finishing and hardware application to greatest extent possible in the factory.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. SOLID WOOD PIVOT DOORS
		1. Basis of Design: Solid Wood Pivot Doors S.23 as manufactured by Panda Windows and Doors: This design prevents twisting and warping found in other designs. The custom designed bottom sill plate offers minimal rise with maximum weather resistance.
			1. Material: Engineered wood cores with a 1/4 inch (6 mm) wood veneer.
				1. Wood Veneer: May be virtually any wood available on the market.

\*\* NOTE TO SPECIFIER \*\* Delete species options not required.

Species: To be selected by Architect.

Species: Pine.

Species: Poplar.

Species: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete configuration options not required.

* + - 1. Panel Configuration: Single pivot door.
			2. Panel Configuration: Double pivot door.

\*\* NOTE TO SPECIFIER \*\* Maximum panel size is 8 x 14 feet (2438 x 4267 mm). Delete panel size options not required.

* + - 1. Panel Size: \_\_\_\_\_\_\_\_.
			2. Panel Size: 8 x 14 feet (2438 x 4267 mm).
			3. Panel Size: As indicated on Drawings.
			4. Panel Width: 2-1/2 inches (64 mm).
			5. Stile and Rail Profile Width: 4 inches (102 mm).
			6. Stile and Rail Profile Thickness or Depth: 2-1/2 inches (64 mm).
			7. Jamb Width: 1 inch (25.4 mm)..
			8. Header Height: 1 inch (25.4 mm).

\*\* NOTE TO SPECIFIER \*\* Delete threshold option not required.

* + - 1. Threshold: 3/8 inch (9.5 mm) ADA Compliant thermally broken.
			2. Threshold: No track.
			3. Weight of Door Panel: Approximately 7 to 8 lbs per sq ft (34 to 39 kg per sq. meter) depending on overall panel size and glass configuration.

\*\* NOTE TO SPECIFIER \*\* Any type of glass and other materials are available at any thickness up to 1 inch (25 mm).

* + - 1. Glazing: \_\_\_\_\_\_.
			2. Glazing: Glass Type: Low-E-coated, Insulating Glass Units.
				1. Low-E Coating: \_\_\_\_\_.
				2. Air Space: \_\_\_\_\_.
				3. U-Factor per AAMA1503/ASTM E1423/NFRC 100: \_\_\_\_\_.
				4. Condensation Resistance per AAMA1503/NFRC 500: \_\_\_\_\_.
				5. Tint: \_\_\_\_\_.
				6. Solar Heat Gain Coefficient (SHGC) per NFRC 200: \_\_\_\_\_.
				7. Visible Light Transmittance (VT): \_\_\_\_\_.
				8. Overall Glazing Thickness: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete divided lite option not required.

* + - 1. Divided Lites: Horizontal True Dividers.
			2. Divided Lites: Simulated Divided Lites.
		1. Hardware:

\*\* NOTE TO SPECIFIER \*\* Delete hinge options not required.

* + - 1. Hinges: Black.
			2. Hinges: Powder coat finish.
			3. Hinges: \_\_\_\_\_\_.
			4. Door Handles: Manufacturer's standard shape with ergonomic grip on inside and out and lock set with profile cylinder. Three point locking hardware.

\*\* NOTE TO SPECIFIER \*\* Aria and Acacia are not available in Silver or Brass. Summit is not available in White or Black. Delete style and color options not required.

* + - * 1. Style: Aria.
				2. Style: Acacia.
				3. Style: Summit.
				4. Color: White.
				5. Color: Bronze.
				6. Color: Black.
				7. Color: Brushed chrome.
				8. Color: Satin chrome.
				9. Color: Silver.
				10. Color: Brass.
			1. Locking: Stainless steel multi-point locking hardware.
			2. Operating Mechanism: A multi-point lock with handle from Manufacturer's standard options.
			3. Gasketing: Manufacturer's standard EPDM gasket and dense felt brushes.
	1. FlNlSHES
		1. Aluminum Finish:

\*\* NOTE TO SPECIFIER \*\* Delete finish and color options not required.

* + - 1. Powder coat per AAMA 2604.
			2. Powder coat per AAMA 2605.
			3. Kynar (2-Coat) per AAMA 2605.
			4. Kynar (3-Coat) per AAMA 2605.
			5. Anodized.
			6. Color: \_\_\_\_\_\_\_\_.
			7. Color: As determined by Architect from Manufacturer's standard range.
		1. Wood Finish:

\*\* NOTE TO SPECIFIER \*\* Delete finish options not required.

* + - 1. Unfinished.
			2. \_\_\_\_\_.
	1. ACCESSORlES

\*\* NOTE TO SPECIFIER \*\* Delete accessory options not required.

* + 1. Fasteners:

\*\* NOTE TO SPECIFIER \*\* Retain stainless steel option for coastal regions or projects where excessive corrosion is a concern. Delete option not required.

* + - 1. Manufacturer's standard fasteners.
			2. Manufacturer's standard, stainless steel noncorrosive fasteners.
			3. Exposed Fasteners: Avoid exposed fasteners to the greatest extent possible. Use fasteners that match finish hardware being fastened.
		1. Shims: Manufacturer recommended plastic precision shims.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly constructed and prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Ensure structure and substrate are adequate to support pivot door systems.
		3. Verify rough opening conditions and dimensions:
			1. Verify opening is properly flashed and waterproofed.
			2. Verify opening is level, plumb, and square with no unevenness on the floor.
		4. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions approved submittals and in proper relationship with adjacent construction.
			1. Install level, straight, plumb, and square.
			2. Accurately fit, align, and securely fasten.
		2. Adjust components and systems for correct function and operation in accordance with manufacturer's written instructions.
	4. FIELD QUALITY CONTROL
		1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.
	5. DEMONSTRATION AND TRAINING
		1. Instruct Owner's personnel in care, adjustment and operation of pivot door systems.
		2. Provide competent instructor for not less than one four-hour training session after completion and acceptance of work.
	6. CLEANING AND PROTECTION
		1. Clean products in accordance with the manufacturer's recommendations.
		2. All protective film or plastic wrap shall be removed within 48 hours of installation.
		3. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION