

SECTION 08 30 00

SPECIALTY DOORS AND FRAMES

Specifier Notes – This document uses hidden text to guide the specifier through various options while editing the document. Hidden text may be turned on by quickly by clicking on the “Show/Hide” symbol “¶” in the ribbon; by going to “File” above the ribbon at the top left, then to “Options” at the very lower left, then to “Display” on the left side of the menu pop-up, and then check the box next to “Hidden Text.”

Specifier Notes – Euro-Wall, LLC; Multi-sliding door, folding door, sliding door, pivot door, stacking door, aluminum entrance doors.

This section is based on the products of Euro-Wall, LLC.

Text about company from the Anguleris web page

[Click Here](https://anguleris.com/) for additional information.

1. GENERAL
	1. SECTION INCLUDES

Specifier Notes – Delete products below not required for project.

* + 1. Stacking Doors.
		2. Pivot Doors.
		3. Multi-Sliding Doors.
		4. Multi-Sliding Thermally Broken Doors.
		5. Folding Doors.
		6. Fixed Direct Set and Sidelights.
	1. RELATED SECTIONS

Specifier Notes – Delete any sections below not relevant to this project; add other sections as required.

* + 1. Section 06 10 00 - Rough Carpentry: for blocking for framed openings.
		2. Section 03 30 00 – Cast-In-Place Concrete: for block outs for recessed sills and water management systems.
		3. Section 07 62 00 - Flashing and Sheet Metal: for perimeter flashing at openings.
		4. Section 07 92 00 - Sealants: for perimeter sealed joints.
		5. Section 08 80 00 – Glazing: for material requirements for glass and IG/laminated construction.
	1. REFERENCES
		1. American Architectural Manufacturers Association (AAMA)
			1. AAMA/WDMA/CSA 101/I.S.2/A440-08 (NAFS-08) - Standard/Specification for windows, doors, and unit skylights.
			2. AAMA CW-1 0 - Care and Handling of Architectural Aluminum from Shop to Site.
			3. AAMA 610.1 - Cleaning and Maintenance of Painted Aluminum Extrusions and Curtain Wall Panels.
			4. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum.
			5. AAMA 1303 - Voluntary Specifications for Forced-Entry Resistant Aluminum sliding Glass Doors.
			6. AAMA 2604 – Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.
			7. AAMA 2605 – Voluntary Specification, 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. ASTM International (ASTM):
			1. ASTM C 864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers.
			2. ASTM C 1115 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting. Blocks, and Spacers.
			3. ASTM E283 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
			4. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
			5. ASTM E 330 - Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
			6. ASTM E 547 - Water Penetration of Exterior Windows, Curtain Walls, and Doors.
			7. ASTM E 1886 - Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.
			8. ASTM E 1996: “Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes”.
	2. ACTION SUBMITTALS
		1. Submit in accordance with requirements of Section 01 30 00 - Administrative Requirements.
		2. Product Data:
			1. Manufacturer’s technical product data, including component descriptions, construction details, and test results showing compliance with specified performance criteria.
			2. Manufacturer’s surface preparation and installation instructions.
			3. Safety Data Sheets (SDS).
			4. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
			5. Include rated capacities, operating characteristics, and furnished specialties and accessories.
		3. Shop Drawings: Detailed drawings prepared specifically for the project by manufacturer. Show opening dimensions, framed opening tolerances, profiles, product components, anchorages, and accessories.
			1. Indicate material thickness, fastener locations, glazing and hardware arrangements.
			2. Include schedule identifying each unit, with marks or numbers referencing drawings.

Specifier Notes – Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
		2. Verification Samples:
			1. Aluminum Finish: Two samples, minimum size 2 by 3 inches (50 by 75 mm), representing actual product and color.
			2. Glass: Two samples, minimum size 12 inches (300 mm) square, of specified glass, including coatings or frit pattern.
			3. Assembly Sample: 24 by 36 inches (600 by 900 mm) assembly complete with glazing, gaskets, fasteners, anchors, and finish; do not proceed with fabrication until workmanship and color are approved by Architect.
	1. INFORMATIONAL SUBMITTALS
		1. Sustainability Submittals:
			1. Refer to Section 01 81 13 – Sustainable Design Requirements.

Coordinate "Qualification Data" Paragraph below with qualification requirements in Section 01 40 00 "Quality Requirements" and as may be supplemented in "Quality Assurance" Article. Delete entities not required.

* + 1. Qualification Data: For **[**Installer**][**manufacturer**][**testing agency**][**factory-authorized service representative**]**.

Retain "Welding certificates" Paragraph below if retaining "Welding Qualifications" Paragraph in "Quality Assurance" Article.

* + 1. Welding certificates.
	1. closeout submittals
		1. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
		2. Provide manufacturer's maintenance instructions that include recommendations for periodic checking and adjustment and periodic cleaning and maintenance of all components
		3. Maintenance Data: To include in maintenance manuals.
	2. QUALITY ASSURANCE

Specifier Notes – Delete if not required.

* + 1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this Section with minimum 3 years’ experience in fabrication and erection of glazed window wall systems for projects of similar scope.

Specifier Notes – Delete if not required.

* + 1. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
		2. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

Specifier Notes – Retain "Welding Qualifications" paragraphs below if shop or field welding is required. If retaining, also retain "Welding certificates" Paragraph in "Informational Submittals" Article.

* + 1. Welding Qualifications: Qualify procedures and personnel according to AWS  D1.2/D1.2M, "Structural Welding Code – Aluminum."

Specifier Notes – 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. Delete if not required.

* + 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, visual appearance and operation.
			2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
			3. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
			4. Refinish mock-up area as required to produce acceptable work.
			5. Retain mock-up during construction as a standard for comparison with completed work.
			6. Incorporate accepted mock-up as part of the Work.
	1. PRE-INSTALLATION CONFERENCE
		1. Pre-installation Conference: Conduct conference at **[**Project site**]<**Insert location**>**.
		2. Convene a conference approximately [two weeks]**< insert timing>** 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. Store products in manufacturer's unopened packaging until ready for installation.
		2. Provide care and handling conforming to AAMA CW-1 0, “Care and Handling of Architectural Aluminum from Shop to Site”.
		3. Store products out of contact with the ground, under a weather tight covering, so as to prevent bending, warping, or other damage. Do not cover with unventilated tarps, polyethylene film, or similar coverings.
		4. Protect factory finishes from damage, precipitation and construction materials until ready for installation.
	3. PROJECT CONDITIONS
		1. Schedule work around the ambient conditions required by the manufacturer. Do not perform work outside manufacturer's recommended limits for environmental conditions.
		2. Prior to fabrication, verify that dimensions are consistent with those found in the construction drawings. Where discrepancies exist, confirm the proper dimensions with the Architect before proceeding with work.
	4. SEQUENCING
		1. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.
		2. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
	5. WARRANTY

Specifier Notes – Include special Project warranties only in those Sections where availability has been verified with contractors and manufacturers listed.

If Installer is included as signer of the warranty, the maximum warranty period that sureties will allow is two years. Use specified form of special warranty only when it is included at the end of the Section.

When warranties are required, verify with Owner's counsel that warranties stated in this article are not less than remedies available to Owner under prevailing local laws.

* + 1. Manufacturer's Warranty: Manufacturer agrees to repair or replace components of door and window products that fail(s) in materials or workmanship within specified warranty period.

Specifier Notes – Verify available warranties and warranty periods. Euro-Wall products are warranted for 10 years.

* + - 1. Warranty Period: 10 year(s) from date of Substantial Completion.
			2. Refer to manufacturer for reduced warranty periods on products and finishes in coastal and salt water environments.
1. PRODUCTS
	1. MANUFACTURERS

Specifier Notes – Retain the following Paragraph if this document is a PROPRIETARY Specification, with products listed as the Basis of Design. Delete if not required.

* + 1. Basis of Design Manufacturer: Euro-Wall, LLC
			1. Address: 2200 Murphy Court, North Port, Florida 34289
			2. Phone Toll Free: 888-989-EURO (3876).
			3. Fax: 941-867-4421.
			4. Website: [www.euro-wall.com.](http://www.euro-wall.com/)
			5. Email: sales@euro-wall.com.
		2. N.A.M.I. Quality Assurance compliant # 1884-1. ISO/IEC 17020 & Guide 53. State of Florida QUA 1789.
		3. Substitution Limitations:
			1. Submit substitution requests in accordance with provisions of Section 01 60 00.
			2. Single manufacturer to provide, from a single source, primary products and accessories specified in this section.
	1. PERFORMANCE AND DESIGN REQUIREMENTS
		1. System Design: Design and size components to withstand dead and live loads caused by pressure and suction of wind acting normal to plane of folding glass wall as calculated in accordance with applicable code.

Specifier Notes – Delete physical performance requirements per product not required.

* + 1. Physical Performance requirement.

Specifier Notes – Pivot Door.

* + - 1. Outward/Inward Euro Pivot Door with or without sidelight.
				1. AAMA / WDMA / CSA 101 / I.S.2 / A440-08 (NAFS-08), Air infiltration: A2,
				2. Water Leakage Resistance: DP60.
				3. Wind Load Resistance: DP60.

Specifier Notes – Thermally-Broken Folding door spec.

* + - * 1. Design Pressure: 2900 Pa (61 psf), ASTM E330, Procedure A.
				2. Water Leakage Resistance: DP50, Wind Load Resistance: DP50.

Specifier Notes – Thermally-Broken Folding door spec.

* + - * 1. Design Pressure: 2400 Pa (50 psf), ASTM E330, Procedure A.
				2. Water Penetration Resistance: 7.5 lbs. (3.4 Kg), ASTM E 547 with no leakage with a water management system.
				3. Negative Design Pressure = 2900 Pa (61 psf), ASTM E330, Procedure A.
				4. Air Leakage Resistance: A2 under NAFS-08.

Specifier Notes – Delete if high coastal wind zone, hurricane or impact requirements not required.

* + 1. Standards Compliance:
			1. The Euro-Wall Door is designed and manufactured to comply with the current Florida Building Code (FBC) including HVHZ and has been evaluated to the following:
				1. TAS 201-94 (ASTM E1996-03) Large missile impacts
				2. TAS 202-94 (ASTM E330-02) Uniform static pressure
				3. TAS 203-94 (ASTM E1886-02) Positive and negative cycle loads
				4. ASTM E283 Air infiltration
				5. ASTM E331-00 Water infiltration
				6. AAMA 1303-05 Forced entry

Specifier Notes - Current Florida product approvals for both HVHZ and WZ3 can be found at [www.floridabuilding.org](http://www.floridabuilding.org/). Refer to Design Pressure (DP) Charts for the specific product to confirm height/width combination complies with maximum rated DP. Delete if high coastal wind zone, hurricane or impact requirements not required.

* + 1. Environmental Performance requirement.

Specifier Notes – Multi-sliding doors and impact rated multi-sliding doors. Refer to design pressure chart for panel height/width complying combination.

* + - 1. HVHZ maximum approved:
				1. DP up to 120: Panel height up to 144 inches (3657 mm). Panel width up to 84 inches (2133 mm).
			2. WZ3 maximum approved:
				1. DP up to 120: Panel height up to 168 inches (4267 mm), Panel width up to 84 inches (2133 mm).

Specifier Notes – Folding Doors. Refer to design pressure chart for panel height/width complying combination.

* + - 1. HVHZ maximum approved:
			2. DP up to 100: Panel height up to 144 inches (3657 mm) Panel width up to 53 inches (1348 mm).
			3. WZ3 maximum approved:
			4. DP up to 100: Panel height up to 168 inches (4267 mm) Panel width up to 52 inches (1321 mm).

Specifier Notes – Pivot Door and Fixed units. Refer to design pressure chart for panel height/width complying combination.

* + - 1. HVHZ maximum approved:
				1. DP up to 60: Panel height up to 144 inches (3657 mm) Panel width up to 100 inches (2540 mm).
			2. WZ3 maximum approved:
				1. DP up to 60: Panel height up to 168 inches (4267 mm) Panel width up to 100 inches (2540 mm).

Specifier Notes – When using maximum panel widths & heights, panels may exceed maximum panel weight of 660 lbs. (299 Kg). Calculated weight check should be done. Delete product if not required.

* 1. ALUMINUM STACKING DOORS

Specifier Notes – Euro-ST3 Aluminum Stacking Door. Maximum Panel Weight – 660 lbs. (299 Kg). Minimum Panel Width: 18 inches (457 mm), Maximum Panel Width: 96 inches (2438 mm), Minimum panel height: 24 inches (610 mm), Maximum panel height: 188 inches (4775 mm). Delete if not required.

* + 1. Provide top hung sliding/folding stacking glass doors to fit the openings and configurations indicated on the Drawings. Provide system with head, sill and jambs complete with weatherstripping, operating hardware and specified accessories as follows:

Specifier Notes – Delete system frame option not required.

* + - 1. System: Euro-Wall, LLC Euro-ST3 Framed Aluminum Stacking door system as manufactured by Euro-Wall, LLC.
			2. System: Euro-Wall, LLC Euro-ST3 Frameless Aluminum Stacking doors system as manufactured by Euro-Wall, LLC

Specifier Notes – Delete stacking operation not required.

* + - 1. Operation: Out-stacking system.
			2. Operation: In-stacking system.

Specifier Notes – Pivot Door Option. Certain stacking configurations allow the application of an active pivot door with a 5 point locking system (3 hooks + top and bottom flush bolts). Delete if not required.

* + - 1. Provide active pivot door incorporated into installation.

Specifier Notes – 90 degree perpendicular stacking, 135 degree parallel stacking, parallel stacking, custom closet and remote stacking (left & right options available).

* + - 1. Configuration: Refer to Drawings

Specifier Notes – Max Panel Weight 700 lbs. (318 Kg), Panel Width: Minimum Panel Width: 36 inches (914 mm), Maximum Panel Width: 100 inches (2540 mm). Panel Height: Minimum Panel Height: 48 inches (1219 mm), Maximum Panel Height: 168 inches (4267 mm). Delete pivot doors if not required.

* 1. PIVOT DOOR
		1. Provide pivot glass doors to fit the openings and configurations indicated on the Drawings. Provide system complete with head, sill and jambs complete with weather stripping, operating hardware and specified accessories as follows:
			1. System: Euro-Wall, LLC Euro Pivot Door as manufactured by Euro- Wall Systems LLC.
			2. Door Panel Size: Provide doors as a factory fabricated knock-down system.
				1. As indicated on the Drawings.

Specifier Notes – Delete operation not required.

* + - 1. Operation: Out-wing system.
			2. Operation: In-swing system.

Specifier Notes – Customize the door system panels with configurable muntins and midrails. Muntins and midrails come in either aluminum or wood. Delete if not required.

* + - 1. Panel Design: Refer to Drawings.

Specifier Notes – Delete fi not required.

* + - 1. Fixed Lights: Provide matching transom and sidelight units. Refer to Drawings.

Specifier Notes – Optional Drainage System: Euro-Wall offers an optional water management system that allows water to drain away from the pivot door location. NOTE: This is not a water rated door. Delete if not required.

* + - 1. Water Management System: Provide independent exterior water management system with surface receiver and piped outlet.

Specifier Notes – Maximum number of Panels: 8. 2 track to 5 track options for flexible panel configurations. Panel Weight: 800 lbs. (363 Kg) each panel. Panel Width: Minimum panel width: 24 inches (610 mm). Maximum panel width: 84 inches (2134 mm). Panel Height: Minimum panel height: 32 inches (813 mm). Maximum panel height: 168 inches (4267 mm). Door Thickness: 1-3/4 inches (44 mm). When using maximum panel widths & heights, panels may exceed maximum panel weight of 800 lbs. (363 Kg) . Calculated weight check should be done. For installations in Florida, please see the Florida Product Approval for usage and limitations. Delete if not required.

* 1. ALUMINUM MULTI-SLIDING DOORS
		1. Provide multi sliding glass doors to fit the openings and configurations indicated on the Drawings. Provide system complete with head, sill and jambs complete with weather stripping, operating hardware and specified accessories as follows:
			1. System: Euro Vista Multi-Sliding manufactured by Euro-Wall, LLC.
			2. Door Panel Size: Provide doors as a factory fabricated knock-down system.
				1. As indicated on the Drawings.
			3. Operation: Multi-track Sliding door system with interlocking stiles and center meet reinforced astragal for increase rated WZ3 and HVHZ panel heights. No sill required.

Specifier Notes – Optional track inlay. Delete if not required.

* + - 1. Track Cover: Provide track inlay to create flush transitions.

Specifier Notes – Optional Drainage System: Euro-Wall offers an optional water management system that allows water to drain away from the track location. Delete if not required.

* + - 1. Water Management System: Provide independent active water management system with track inlets and piped discharge outlet.

Specifier Notes – Max number of Panels: 8. Maximum Panel Weight: 2 track to 5 track options for flexible panel configurations. 500 lbs. (227 Kg) each panel. Panel Width: Minimum panel width: 24 inches (610 mm). Maximum panel width: 96 inches (2438 mm). Panel Height: Minimum panel height: 32 inches (813 mm). Maximum panel height: 166 inches (4216 mm). Door Thickness: 1-3/4 inches (44 mm). When using maximum panel widths & heights, panels may exceed maximum panel weight of 500 lbs. (227 Kg). Calculated weight check should be done. For installations in Florida, please see the Florida Product Approval for usage and limitations. Delete if not required.

* 1. ALUMINUM THERMALLY BROKEN MULTI-SLIDING DOORS
		1. Provide thermally broken multi sliding glass doors to fit the openings and configurations indicated on the Drawings. Provide system complete with head, sill and jambs complete with weather stripping, operating hardware and specified accessories as follows:
			1. System: Euro Vista Thermally-Broken Multi-Sliding manufactured by Euro-Wall, LLC.
			2. Door Panel Size: Provide doors as a factory fabricated knock-down system.
				1. As indicated on the Drawings.
			3. Operation: Multi-track Sliding door system with interlocking stiles and center meet reinforced astragal for increase rated WZ3 and HVHZ panel heights. No sill required.

Specifier Notes – Optional track inlay. Delete if not required.

* + - 1. Track Cover: Provide track inlay to create flush transitions.

Specifier Notes – Optional Drainage System: Euro-Wall offers an optional water management system that allows water to drain away from the track location. Delete if not required.

* + - 1. Water Management System: Provide independent active water management system with track inlets and piped discharge outlet.
		1. Construction: Thermally-broke sections and sill. Pour and debridge interior isolation from exterior with pour and debridge method.
		2. Thermal NFRC testing (simulation) 1 inch I-G glass (LowE 366 @ I89 ) .32 to .50 U-Factor, SHGC < .19.
			1. Provide test data. Similar to thermally-broken folding door testing.
		3. Thermally Broken Aluminum Sliding Door system when tested shall meet or exceed the following performance tests.
			1. Provide test data. Similar to thermally-broken folding door testing.

Specifier Notes – Max Panel Weight 350 lbs. (159 Kg), Panel Width: Minimum Panel Width: 18 inches (457 mm), Maximum Panel Width: 52 inches (1321 mm). Panel Height: Minimum Panel Height: 32 inches (813 mm), Maximum Panel Height: 168 inches (4267 mm). Delete folding doors if not required.

* 1. ALUMINUM FOLDING DOORS
		1. Provide top hung sliding/folding glass doors to fit the openings and configurations indicated on the Drawings. Provide system complete with head, sill and jambs complete with weatherstripping, operating hardware and specified accessories as follows:

Specifier Notes – Delete system not required. C3 is an impact rated system.

* + - 1. System: Euro-Wall, LLC Euro-C2 Aluminum folding door system as manufactured by Euro-Wall Systems LLC.
			2. System: Euro-Wall, LLC Euro-C3 Aluminum Impact Resistant folding doors system as manufactured by Euro-Wall, LLC

Specifier Notes – Delete operation not required.

* + - 1. Operation: Out-folding system.
			2. Operation: In-folding system.
			3. Door Panel Size: Provide doors as a factory fabricated knock-down system.

Specifier Notes – Straight, segmented, radius and split height configurations and 90° post less corner units available. Indicate panel group configurations by manufacturer designations. Refer to Product Brochure; 2L 2L1R, 2L2R 3L, 3L1R 3L2R, 5L2R 3L3R, 5L11R, etc.

* + - 1. Configuration: As indicated on the Drawings.

Specifier Notes – Max Panel Weight 350 lbs. (159 Kg), Panel Width: Minimum Panel Width: 18 inches (457 mm), Maximum Panel Width: 42 inches (1067 mm). Panel Height: Minimum Panel Height: 32 inches (813 mm), Maximum Panel Height: 120 inches (3048 mm). NOTE: When using maximum panel widths & heights, panels may exceed maximum panel weight of 350 lbs. (159 Kg). Calculated weight check should be done. For installations in Florida, please see the Florida Product Approval for usage and limitations. Delete folding doors if not required.

* 1. ALUMINUM THERMALLY BROKEN FOLDING DOORS
		1. Provide thermally broken top hung sliding/folding glass doors to fit the openings and configurations indicated on the Drawings. Provide system complete with head, sill and jambs with weatherstripping, operating hardware and specified accessories as follows:
			1. System: Euro-Wall System LLC Euro-C5 Thermally Broken Aluminum Folding Systems as manufactured by Euro-Wall, LLC.
			2. Door Panel Size: Provide doors as a factory fabricated knock-down system.
				1. As indicated on the Drawings.

Specifier Notes – Delete operation not required.

* + - 1. Operation: Out-folding system.
			2. Operation: In-folding system.
		1. Construction: Thermally-broke sections and sill. Interior isolation from exterior with pour and debridge method at recessed stile, multi-point stile, rail, jamb and header.
		2. Thermal NFRC testing (simulation) 1 inch IG glass(LowE 366 @ I89 ) .32 to .50 U-Factor, SHGC < .19
			1. ASTM E 330, Procedure A: Uniform Load Structural: PG 50+/- (2400 Pa/ 50 psf).
			2. AAMA / WDMA / CSA 101 / I.S.2 / A440-08 (NAFS-08), Air infiltration: A3,
			3. Water Leakage Resistance: DP50 (510 PA), Wind Load Resistance
			4. Design Pressure: 3360 Pa (71 psf), ASTM E 330, Procedure A.
			5. Negative Design Pressure: 50 DP- ASTM E 330, Procedure A.
			6. Water Penetration Resistance: 510 Pa (10.5 psf), ASTM E 547.
			7. Air Leakage Resistance: A2 (NAFS-08)
		3. Outward/Inward opening Euro-C5 Thermally Broken Aluminum Folding Door system when tested on a typical four panel folding door unit (3L3R), 252 inches (6400.8 mm) in width and 120 inches (3048 mm) in height shall meet or exceed the following performance tests.
			1. ASTM E 1886: 10 Large Missile Impact Shots: Not Tested
			2. ASTM E 1996: 9000 Air Pressure Cycles (Positive/ Negative): 50 Psf (2400 Pa).
			3. ASTM E 330, Procedure A: Uniform Load Structural: DP50. (2400 Pa/ 50 psf).
			4. AAMA / WDMA / CSA 101 / I.S.2 / A440-08 (NAFS-08), Air infiltration: A3,
			5. Water Leakage Resistance: DP50, Wind Load Resistance: DP50 (2400 PA).
			6. Design Pressure: 2400 Pa (50 psf), ASTM E 330, Procedure A.
			7. Negative Design Pressure: 2400 Pa (50 psf), ASTM E 330, Procedure A.
			8. Water Penetration Resistance: 510 Pa (10.5 psf), ASTM E 547.
			9. Leakage Resistance: A2 (NAFS-08)
			10. TAS 201 TAS 202 TAS 203, Not Tested

Specifier Notes – Fixed units are a great way to add more light in and / or to enhance the aesthetic of your door. Fixed units can be fabricated as stand-alone windows or to match any Euro-Wall folding or pivot door system.

Aluminum fixed units are available as impact rated Florida Product Approved for severe weather regions or non-impact rated for temperate climates. Wood fixed units are non-impact only. The Euro Vista Fixed Unit™ can be tailor made to fit your needs.

Minimum fixed unit width: 18.125 inches (460 mm), maximum fixed unit width: 144 inches (3658 mm). Minimum fixed unit height: 18.125 inches (460 mm), maximum fixed unit height: 144 inches (3658 mm). Fixed unit thickness: 2-1/4 inches (57 inches). Maximum # of fixed unit: unlimited.

Delete if not required.

* 1. FIXED UNITS
		1. Provide transoms and side lights as indicated with same rated performance, construction, glazing and design as adjoining window and doors.

Specifier Notes – Delete product not required.

* + - 1. Impact Rated Thermally Broken Euro Vista Fixed Unit.
				1. Approved for use in Miami-Dade HVHZ Zones.
				2. Florida Building Code Approved Product Approval FL 17432, TAS 201 TAS 202 TAS 203.
			2. Non-Impact Rated Thermally Broken Euro Vista Fixed Unit.
	1. MATERIALS
		1. Aluminum: 6063-T5 alloy and temper. Other alloys and tempers may be used for non-structural members provided they do not void the required warranties. Indicate alloys and tempers clearly on shop drawings and in structural calculations.
			1. Framing: Extruded aluminum with nominal thickness of .078 inches (2.0 mm) to .1562 inches (4mm).
		2. Flashings: Sheet aluminum, same finish as for system components; secured with concealed fastening method or fastener with head finished to match; thickness as required for conditions encountered.
		3. Anchors and Fasteners: Aluminum, zinc and stainless steel of type, which will not cause electrolytic action or corrosion.
		4. Weatherstripping:
			1. Dual weatherstripping on head, jambs and between panels, and single weatherstripping on sill.
			2. Hinge gaskets on specific hinges per product.
		5. Sill:
			1. Profile: Standard.
			2. Profile: Modified Standard.

Specifier Notes – Folding thermally-broken application. Delete if not required.

* + - 1. Profile: Modified Standard (thermally-broke).

Specifier Notes – Multi-sliding thermally-broken application. Delete if not required.

* + - 1. Profile: Standard sill (thermally-broke).
			2. Profile: Floor channel ADA compliant sill
			3. Profile: ADA Sill

Specifier Notes – Folding thermally-broken application. Delete if not required.

* + - 1. Profile: ADA compliant sill (thermally-broke).
			2. Profile: Interior sill.

Specifier Notes – Sill not required for pivot doors, sliding and stacking doors. Delete if not required.

* + - 1. Profile: No Sill.
		1. Accessories:
			1. Moldings as indicated or required.
			2. Sill Cover as indicated or required.
			3. Sill pan as indicated or required.
	1. HARDWARE

Specifier Notes –Delete hardware not required.

* + 1. Hardware:
			1. Aluminum hinges, color as follows: **[**White Powder Coat**][**Clear Anodized**][**Bronze Powder Coat**][**Black Powder Coat**]**.
			2. Stainless steel corrosion proof carriers with sealed, self-lubrication, ball bearing multi-rollers.
			3. Twinpoint stainless steel Handle and Gear Box.
			4. Multipoint stainless steel door lock system.
		2. Door Handles:

Specifier Notes – Pivot door Ferraro door handle only. Delete series and material/finish not required.

* + - 1. Ferraro Series: Finish: **[**White powder coat finish**][**Satin aluminum finish**][**Black powder coat finish**][**Bronze powder coat finish**]**.
			2. Florence Series: Finish: **[**Satin nickel finish**][**Polished Brass finish**][**Bronze Powder coat finish**][**Antique Brass finish**][**Antique nickel finish**]**.
			3. Faenza Series: Finish: **[**Satin nickel finish**][**Polished Brass finish**][**Bronze Powder coat finish**][**Antique Brass finish**][**Antique nickel finish**]**

Specifier Notes – Pivot doors and multi-sliding. Indicate ladder pull length (1 foot through 6 feet).

* + - 1. Ladder Pull Handles:
				1. Stainless Steel Ladder Pull: **[**Satin finish**][**Polished finish**]**.
				2. Powder Coat: **[**Bronze**][**White**][**Black**]**.
	1. FINISH
		1. Aluminum Finish: Anodized Class 1 complying with AAMA 611 Class 1 Acid Etch anodic coatings.
			1. Color: **[**Clear**]**.
		2. Aluminum Finish: Standard mill finish with custom finish as follows:

Specifier Notes – Metallic custom powder coat finishes available.

* + - 1. Kynar 70% finish: D2000-AAMA 2605. 20 year manufacturer’s warranty. Color as selected from manufacturer’s standard colors.
				1. Color: **[**White**][**Bronze**][**Black**].**

Specifier Notes – Solid colors: custom powder coat finishes available (View RAL color samples on <https://www.euro-wall.com/ral-color-swatch-samples-ral-color-doors/>)

* + - 1. Custom Powder Coat finishes available D3000-AAMA 2605. 10 year manufacturer’s warranty. Color as selected from manufacturer’s standard colors.
			2. Custom Powder Coat finishes available D3000-AAMA 2604. 5 year manufacturer’s warranty. Color as selected from manufacturer’s standard colors.
			3. Interior/Exterior Faux Wood Grain: Paint finish complying with D3000-AAMA 2604. 5 year manufacturer’s warranty.
				1. Species Look: **[**Dark Walnut**][**Dark Walnut**][**Mahogany Red**][**Natura**][**Burlwood**][**English Oak**][**Teak**][**Chestnut Cherry**][**Hazelnut Brown**][**Walnut Brown**][**Cinnamon Red**][**Honey Pine**]**.

Specifier Notes – Natural wood veneered extrusions.

* + 1. Wood Grain Interior Finishes (Standard): **[**Mahogany/Sapele**][**White oak**]**.
		2. Wood Grain Interior Finishes (Exotic): **[**African Rosewood**][**Ash**][**Birch**]**[Curly Maple**][**Red Oak**][**Walnut**][**Zebrawood**]**.
	1. gLAZING

Specifier Notes – Delete ANZI reference if section 08 80 00 included in project manual.

* + 1. Glazing: Provide glazing type specified complying with ANSI Z97.1.
		2. Glazing: Provide glazing type specified complying with Section 08 80 00 – Glazing.

Specifier Notes – Product specific glazing options. Confirm with manufacturer.

* + 1. Glazing:
			1. Construction: 1/4 inch (6 mm) tempered monolithic glass.
			2. Construction: 3/8 inch (9.5 mm) tempered monolithic glass.
			3. Construction: 9/16 inch (14 mm) laminated glass.
			4. Construction: 1/2 inch (12.5 mm) laminated glass.
			5. Construction: 1/2 inch (12.5 mm) tempered monolithic glass.
			6. Construction: 1 inch (24 mm) Sealed Insulating Glass.
			7. Construction: 1 inch (24 mm) Sealed Unit Hurricane Glass.
			8. Construction: 1.25 inches (31.75 mm) Sealed insulating glass.
			9. Construction: 1.25 inches (31.75mm) Sealed Unit Hurricane glass.
		2. Glazing Gaskets: Dry glazing system compression type design, replaceable; EPDM, complying with ASTM C 864, with solid strand cord to prevent shrinkage or; Elastomeric silicone with solid strand cord to prevent shrinkage, complying with ASTM C 1115, as provided by the manufacturer.
			1. Manufacturer's standard wedge gaskets black color.
			2. Wet glazing on oversized panels.
		3. Setting Blocks, Edge Blocks, and Spacers: As required by manufacturer and compatible with insulated glass where required.
	1. FABRICATION
		1. Fabricate components in accordance with approved shop drawings. Remove burrs and rough edges. Shop fabricate to greatest extent practicable to minimize field cutting, splicing, and assembly.
		2. Fabricate components true to detail and free from defects impairing appearance, strength or durability.
		3. Fabricate components to allow for accurate and rigid fit of joints and corners. Match components carefully ensuring continuity of line and design. Ensure joints and connections will be flush and weathertight. Ensure slip joints make full, tight contact and are weathertight.
		4. Reinforce components at anchorage and support points, at joints, and at attachment points for interfacing work. Door panel corner key for strength and security.
		5. Glass: Accurately size glass to fit openings allowing clearances following recommendations of the manufacturer.
		6. Cut glass clean and carefully. Nicks and damaged edges will not be accepted. Replace glass that has damaged edges.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly prepared.
		2. Verify openings are ready to receive work and dimensions and clearances are as indicated on the approved shop drawings.
		3. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
		3. Provide a sill pan for all door installations.
		4. Install water management sill drainage tubes if water management system required.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions.
		2. Install system in accordance with approved shop drawings and manufacturer's instructions.
		3. Install components level, plumb and true to line with uniform joints. Do not use defective parts that are warped, twisted, bowed, dented or abraded.
		4. Moving Panels: Never “walk panels” and never try to move panels with only one person. Always lift and move panels by hand or using glass suction cups using at least two people. For panels less than 8 feet in height, use a minimum of two installers. For panels over 8 feet (2438 mm) tall, a team of four is recommend for the install.
		5. Separate dissimilar materials using nonconductive tape, paint, or other material not visible in finished work.
		6. Provide attachments and shims to permanently fasten system to building structure. Refer to manufacturer’s ANCHOR SCHEDULE for required anchor type, embed and performance.
		7. Maintain dimensional tolerances and alignment with adjacent Work.
		8. Anchor securely in place, allowing for required movement, including expansion and contraction.
		9. Install glazing and sealants in accordance with manufacturer's instructions without exception, including surface preparations.
		10. Set sill members in bed of sealant. Set other members with internal sealants to provide weathertight construction.
		11. Install flashings, closures, corners, and other accessories as required or detailed.
		12. Clean surfaces and install sealant in accordance with sealant manufacturer's instructions and structure manufacturer's guidelines.
	4. FIELD QUALITY CONTROL
		1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.

Specifier Notes – Include if manufacturer provides field quality control with onsite personnel for instruction or supervision of product installation, application, erection or construction. Delete if not required.

* + 1. Manufacturer’s Services: Coordinate manufacturer’s services in accordance with appropriate sections in Division 01.
	1. ADJUSTING AND CLEANING
		1. Adjust hinge sets, locksets, and other hardware for proper operation. Lubricate using a suitable lubricant compatible with door and frame coatings.
		2. Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions before owner's acceptance.
		3. Clean and maintain aluminum surfaces in accordance with AAMA 610.1.
		4. Remove from project site and legally dispose of construction debris associated with this work.
	2. DEMONSTRATION
		1. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain units.

Specifier Notes –Maintenance is required to extend the life of your door system and to maintain the Euro-Wall Warranty.

* 1. CLEANING AND PROTECTION
		1. Clean products in accordance with the manufacturer’s recommendations.
			1. Remove all protective film from panels, frames and any other metal extrusion within 30 days of job delivery. Failure to do so could cause finish damage voiding the product warranty.
			2. Locks and Hardware: Wipe down the visible surfaces with warm soapy water on a soft cloth and then rinse off by wiping with a clean damp cloth. Spray a thin film of light machine oil or one of the corrosion preventative sprays.
			3. Track and Bearings: Apply white petroleum jelly (Vaseline) or equivalent, to inner lip of each side of head track with a clean cloth. Distribute lubricant evenly along track. Ensure wheels and bearings receive sufficient lubricant.
			4. Hangers, Pivots and Brackets: Before applying anti-corrosive substance, wipe exposed surfaces with clean soft cloth soaked in warm soapy water; then rinse, clean and dry. Spray thin film to hangers, pivots and brackets with anti-corrosive treatment.
		2. Touch-up, repair or replace damaged products before Substantial Completion.
		3. Owner Routine Maintenance: Regular maintenance is required for all hardware, even stainless steel, to keep manufacturer’s warranty in place. Failure to provide proof of maintenance will void any warranty.
			1. Carry out maintenance procedures with the following minimum recommendations:
				1. General environments - every 3 months.
				2. Marine, industrial environments, within 5 miles of a body of water and / or a pool area - every month.

END OF SECTION