

Section 05 73 00: P + P Artec "Miami" Stainless Steel Railing System

Part 1 - General

1.1 Sections Includes

- A. Component type, seamless weld stainless steel handrails, guardrails, and railing systems, including connectors, fasteners, and system required accessories.

1.2 Submittals

- A. Product Data: Submit P + P Artec's specification's for all components of each product type specified.
- B. Shop Drawings: Show complete layout including plan views, elevations, sections and details.

1.3 Performance Requirements

- A. Structural Performance: Please use structural code requirements, after confirming with P + P Artec.
- B. Rail Tested per ASTM E 894-88 Standard Test Method for Anchorage of Permanent Metal Railing Systems and Rails for Buildings.

E 935-93 Standard Test Methods for Performance of
Permanent Metal Railing Systems and Rails for
Buildings.

E 985-93 Standard Specification for Permanent Metal
Railing Systems and Rails for Buildings.

- C. Thermal Action and Corrosion Control:

1. Allow for thermal action resulting from the maximum range change in ambient temperature in the design, fabrication and installation of rail systems, to prevent opening of joints, buckling, and other detrimental effects, including over-stressing of connections and components.
2. Prevent galvanic action, and other forms of corrosion by isolating dissimilar metals to prevent them from being in direct contact with each other.

1.4 Quality Assurance

- A. Manufacturer Qualifications: Provide handrails, guardrails, and railing systems from P + P Artec only. Provide quality in appearance and physical properties, without delaying the work. All connection fittings must be bolted, clamped or screwed. The finish of handrail welds must be completely seamless and invisible.

1.5 *Delivery, Storage and Handling*

- A. Deliver handrails, guardrails, and railing systems and related components in protective packaging and store components to avoid damage from moisture, abrasion and other construction activities. All materials must be delivered, stored and handled by P + P Artec technicians only.

1.6 *Alternatives*

- A. No alternatives will be allowed or considered.

Part 2 - Products

2.1 *Manufacturer*

- A. "P + P Artec" stainless steel component part railing systems must be manufactured by P + P Artec, 700 Creel Drive, Wood Dale, IL 60191, TEL(800) 927-7346.

2.2 *Materials*

- A. Material quality: Provide materials free from surface blemishes where exposed to view in the finished installation.
- B. Handrails: 304 stainless steel pipe – 1.5" O.D. (1 ½" diameter) or 1.9" O.D. approved by ADA (1 7/8" diameter) with a 360-400 grit finish.
- C. Balusters: One single baluster post – 304 stainless steel – pipe oval shape 1 ½"x2 ¼" with a 360-400 grit finish. Spaced between 5'-0", not to exceed 6'-0"
- D. Connection fittings: Solid cast zinc – powder coated in colors per P+P Artec's standard color chart supplied with shop drawings.
- E. In-fill Panel (Glass or custom):
 - glass lites, 3/8" with top rail or 1/2" without top rail, (specify one), clear tempered, all four sides polished. Also available in other commercially available colors.
 - tempered glass logo will appear, please check your own local codes.
 - custom design, to be specified.
- F. Bolts, Screws & Nuts: 304 Stainless steel. Do not use metals that will be corrosive and incompatible with materials being fastened.
- G. Mixes: Use Ceramic 6 Epoxy to cast Baluster into concrete.

2.3 *Fabrication*

- A. Fabricate handrails and railing systems to comply with P + P Artec's specifications for project design, details, dimensions, finish, and anchorage, but not less than the structural requirements to support loading.
- B. All fabrication by P + P Artec technicians.

Part 3 - Execution

3.1 Examination/Preparation

- A. Examine system components, substrate and condition where railing systems are to be installed. Field measurements must be taken by a P + P Artec technician prior to fabrication.
- B. Review and coordinate setting drawings, templates, and related items that are to be embedded in concrete and masonry.

3.2 Installation

- A. Railing installation by P + P Artec technicians only per approved shop drawings and conditions.
- B. Mounting of railing systems can be done in two ways:
 - side mount with baluster foot
 - top mount with cover-plate
- C. Where ever possible achieve equal spacing of balusters, not to exceed 6'0" spacing.

3.3 Cleaning and protection

- A. Immediately upon completion of installation clean all railing system surface stainless steel cleaner. Do not use abrasive agents or harsh chemicals. Provide plastic sheet protection for all surfaces of completed installations to prevent damage during remainder of construction activities.