PLEASE PLANT

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Product 2.4: Metal Railings | GEO-MRL

SECTION 057200 – METAL RAILINGS
PART 1 – GENERAL

1.1 SUMMARY
A. Section Includes: Metal railings designed for safety, durability, and aesthetic appeal in commercial and residential applications.
B. Related Sections:
Section 055000 – Metal Fabrications for structural mounting components.
Section 033000 – Cast-in-Place Concrete for embedded railing anchors.

1.2 REFERENCES
A. ASTM B117 – Standard Practice for Operating Salt Spray (Fog) Apparatus.
B. ANSI A117.1 – Accessible and Usable Buildings and Facilities.
C. ICC and IBC – Code Compliance for Load-Bearing Railings.

1.3 SUBMITTALS
A. Product Data: Include specifications, material finishes, and installation requirements.
B. Shop Drawings: Provide details of dimensions, attachment methods, and profiles.
C. Samples: Submit material and finish samples for approval.

1.4 QUALITY ASSURANCE
A. Manufacturer Qualifications: Minimum of 5 years' experience producing metal railing systems for safety and architectural applications.
B. Installer Qualifications: Certified professionals with experience installing railing systems.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Protect railing components from physical damage and moisture during shipment and storage.
B. Store materials on a level, dry surface with ventilation to prevent warping or corrosion.

1.6 WARRANTY
A. Provide manufacturer's standard warranty, including an 8-year structural warranty, 3 years on coatings and finishes, and 2 years on components. Consult terms and conditions for full warranty details per product type.

PART 2 – PRODUCTS

2.1 MANUFACTURER
A. Please Plant, 200-100 Park Royal S, Vancouver, BC
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2.2 METAL RAILINGS
A. Product Nomenclature: GEO-MRL-[Material Code]-[Finish Code]-[Height]
Material Code: AL (Aluminum), ST (Steel), SS (Stainless Steel).
Finish Code: SAT (Satin), BR (Brushed), PC (Powder-Coated).
Height: Specify height in inches (e.g., 36, 42).
Example: GEO-MRL-SS-PC-42 (Stainless steel railing, powder-coated finish, 42-inch height).

2.3 MATERIALS
A. Frame:
Aluminum: Lightweight and corrosion-resistant.
Steel: High-strength material for heavy-duty applications.
Stainless Steel: Polished for corrosion resistance and aesthetics.
B. Finish Options:
Satin, brushed, or powder-coated finishes in RAL colors.
C. Dimensions:
Heights: 36", 42", or custom heights available.
Handrail Diameter: 1.5"–2.5" for ergonomic grip.

2.4 PERFORMANCE REQUIREMENTS
A. Impact Resistance: Complies with ANSI A117.1 standards for safety.
B. Corrosion Resistance: Exceeds ASTM B117 standards for salt spray durability.
C. Load-Bearing Capacity: Meets ICC and IBC code requirements.

2.5 CUSTOMIZATION OPTIONS
A. Custom handrail profiles and finishes.
B. Integrated branding or lighting systems.

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PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify substrates and mounting surfaces comply with structural requirements and are ready for installation.
B. Confirm all dimensions and layouts match approved shop drawings before installation.

3.2 INSTALLATION

A. General Installation:
Install railings in accordance with manufacturer-provided guidelines and approved shop drawings.
Align railing components for a seamless and professional appearance.
B. Mounting Options:
Top-Mounted: Secure directly to decking or flooring.
Side-Mounted: Use precision brackets for balconies or terraces with limited space.
C. Tolerances: Maintain alignment tolerances of ±1/8” for panel joints.

3.3 CLEANING AND MAINTENANCE

A. Cleaning:
Use mild, non-abrasive detergents to clean metal finishes.
Wipe with a soft cloth to avoid scratching or damaging finishes.
B. Maintenance:
Conduct annual inspections for fasteners, brackets, and metal finishes.
Address and repair any damages promptly.

3.4 PROTECTION

A. Protect installed railings from construction-related damage until project completion.

END OF SECTION