PLEASE PLANT

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Product 2.3 Glass & Metal Railings | GEO-GRL

SECTION 057300 – GLASS & METAL RAILINGS
PART 1 – GENERAL

1.1 SUMMARY
A. Section includes: Glass and metal railings for commercial and residential applications, designed for safety, durability, and aesthetic appeal.
B. Related sections:
Section 055000 – Metal Fabrications for structural support elements.
Section 088000 – Glazing for tempered glass specifications.

1.2 REFERENCES
A. ANSI Z97.1 – Safety Glazing Materials Used in Buildings.
B. ASTM C1048 – Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass.
C. ASTM B117 – Standard Practice for Operating Salt Spray (Fog) Apparatus.

1.3 SUBMITTALS
A. Product Data: Include manufacturer's specifications, finish options, and glass panel details.
B. Shop Drawings: Provide dimensions, layout configurations, and attachment details.
C. Samples: Submit material finish and glass type samples as required.

1.4 QUALITY ASSURANCE
A. Manufacturer Qualifications: Minimum of 5 years' experience in fabricating decorative glass and metal railings.
B. Installer Qualifications: Installation to be completed by certified professionals experienced in railing systems.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Store railing components in a dry, secure location, protected from moisture and physical damage.
B. Handle tempered glass panels with care to prevent scratches, cracks, or chipping.

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 GLASS & METAL RAILINGS
A. Product Nomenclature: GEO-GRL-[Material Code]-[Glass Code]-[Finish Code]-[Height]
Material Code: AL (Aluminum), ST (Steel), SS (Stainless Steel).
Glass Code: CLR (Clear), FROST (Frosted), TINT (Tinted).
Finish Code: SAT (Satin), BR (Brushed), PC (Powder-Coated).
Height: Specify height in inches (e.g., 36, 42).
Example: GEO-GRL-SS-FROST-PC-42 (Stainless steel railings, frosted glass, powder-coated finish, 42-inch height).

2.3 MATERIALS
A. Frame:
Aluminum, steel, or stainless steel with corrosion-resistant finishes.
Finish options: Satin, brushed, or powder-coated RAL colors.
B. Glass:
Clear, frosted, or tinted tempered glass.
Thickness: 10 mm or 12 mm, as specified.

2.4 PERFORMANCE REQUIREMENTS
A. Impact Resistance: Meets ANSI Z97.1 and ASTM C1048 standards for safety.
B. Corrosion Resistance: Metal components exceed ASTM B117 standards for durability.
C. Wind Load Resistance: Certified for wind loads up to 120 mph.

2.5 CUSTOMIZATION OPTIONS
A. Handrail profiles and finishes to match project aesthetics.
B. Etched or branded glass panels for unique designs.

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PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify substrate and mounting surfaces are level, clean, and capable of supporting specified loads.
B. Ensure layout complies with approved shop drawings before proceeding.

3.2 INSTALLATION

A. General Installation:
Install railings in accordance with manufacturer-provided guidelines and approved shop drawings.
Ensure glass panels and metal components are aligned for a clean, professional appearance.
B. Mounting Options:
Top-Mounted: Fasten to floor surfaces using concealed hardware.
Side-Mounted: Attach to balcony edges or terraces with precision brackets.
C. Tolerances: Maintain alignment tolerances of ±1/8” across panel joints.

3.3 CLEANING AND MAINTENANCE

A. Cleaning:
Use non-abrasive glass cleaners and soft cloths for routine maintenance.
Avoid harsh chemicals on metal finishes to preserve coating integrity.
B. Maintenance:
Inspect fasteners and brackets annually for signs of wear or damage.
Replace any compromised components to maintain safety and performance.

3.4 PROTECTION

A. Protect installed railings from damage during ongoing construction activities.

END OF SECTION