PLEASE PLANT

200-100 Park Royal S, Vancouver, BC
236-323-2179
info@pleaseplant.com
www.pleaseplant.com

Product 2.5: Prefabricated Stairs | GEO-STA

SECTION 05 51 00 – PREFABRICATED STAIRS
PART 1 – GENERAL

1.1 SUMMARY
A. Section Includes:
Prefabricated stair systems for commercial, industrial, and institutional applications.
B. Related Sections:
Section 03 30 00 – Cast-in-Place Concrete: Structural footings for stair supports.
Section 05 12 00 – Structural Steel Framing: Connection to steel framing.
Section 09 90 00 – Painting and Coating: Optional protective coatings for stair finishes.

1.2 REFERENCES
A. ASTM A36 – Standard Specification for Carbon Structural Steel.
B. ASTM A123 – Standard Specification for Zinc (Hot-Dip Galvanized) Coatings.
C. ASTM E985 – Standard Specification for Permanent Metal Railing Systems.
D. OSHA 1910.25 – Occupational Safety and Health Standards for Stairways.
E. ANSI A117.1 – Accessible and Usable Buildings and Facilities.

1.3 SUBMITTALS
A. Product Data: Submit specifications, dimensions, load capacity, and finish options.
B. Shop Drawings: Include stair layouts, tread and riser dimensions, handrail details, and mounting configurations.
C. Samples: Provide material and finish samples upon request.
D. Certificates: Demonstrate compliance with OSHA and ASTM standards.

1.4 QUALITY ASSURANCE
A. Manufacturer Qualifications: Minimum of five years' experience in manufacturing prefabricated stair systems.
B. Pre-Installation Meeting: Conduct a meeting with contractors and project stakeholders to verify installation requirements.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Deliver stair systems in original protective packaging with clear identification labels.
B. Store in a clean, dry area protected from moisture and physical damage.
C. Handle with care to prevent bending, scratching, or coating damage.

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
Email: info@pleaseplant.com | Phone: +1 236-323-2179

2.2 MATERIALS

A. Product Nomenclature
GEO-STA-[Material Code]-[Configuration Code]-[Finish Code]
Material Code: S (Steel), A (Aluminum), C (Composite)
Configuration Code: STR (Straight), SPN (Spiral), MOD (Modular)
Finish Code: PC (Powder-Coated), HDG (Hot-Dip Galvanized), SS (Stainless Steel)
Example: GEO-STA-S-STR-PC (Steel, straight stair, powder-coated finish)
B. Frame
Fabricated from high-strength steel, aluminum, or composite materials.
Structural members sized for compliance with ASTM A36 load requirements.
C. Treads
Standard options include anti-slip steel grating, diamond plate, or composite decking.
Load capacity tested to exceed OSHA requirements.
D. Handrails and Guardrails
Fabricated from round or square tubing per ASTM E985 standards.
Height and spacing comply with ANSI A117.1 and OSHA 1910.25.
E. Finishes
Powder-coated, galvanized, or stainless steel for enhanced durability.
Custom color coatings available upon request.

2.3 DIMENSIONS AND CUSTOMIZATION

A. Standard Dimensions
Width: 36", 42", 48" (custom widths available).
Riser Height: 6"–7" per step.
Tread Depth: 10"–12".
B. Customization Options
Adjustable riser heights and tread widths for project-specific needs.
Integrated lighting, slip-resistant coatings, or branding options.

200-100 Park Royal S, Vancouver, BC
236-323-2179
info@pleaseplant.com
www.pleaseplant.com

PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify site conditions, including structural supports and mounting requirements.
B. Ensure that concrete foundations, anchor points, and attachment locations are level and prepared for installation.

3.2 INSTALLATION

A. General Installation
Install prefabricated stairs in accordance with manufacturer instructions.
Securely anchor stair frames to structural support points.
B. Surface-Mounted Stairs
Fasten base plates using high-strength expansion anchors.
C. Embedded Installation
Secure stair columns in concrete footings to prevent lateral movement.
D. Modular Stair Systems
Assemble modular components according to the project's stair layout.

3.3 MAINTENANCE AND INSPECTION

A. Routine Cleaning
Remove debris and dirt to maintain slip resistance.
Clean surfaces with mild detergents to preserve coatings.
B. Inspection
Conduct visual inspections for loose fasteners, worn treads, and structural stability.
Repair or replace damaged components as needed.

3.4 PROTECTION

A. Protect installed stairs from damage during remaining construction activities.

END OF SECTION