PLEASE PLANT

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Product 4.2: Drainage Platforms | GEO-DPL

SECTION 334700 – DRAINAGE PLATFORMS
PART 1 – GENERAL

1.1 SUMMARY
A. Section Includes:
Modular drainage platforms for pedestrian, vehicular, and industrial applications.
B. Related Sections:
Section 334100 – Storm Utility Drainage Piping for integration with existing systems.
Section 312000 – Earth Moving for subgrade preparation.

1.2 REFERENCES
A. ASTM A36 – Standard Specification for Carbon Structural Steel.
B. ASTM B117 – Standard Practice for Operating Salt Spray (Fog) Apparatus.
C. ASTM G154 – Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials.

1.3 SUBMITTALS
A. Product Data: Include material specifications, load capacity, and finish options.
B. Shop Drawings: Detailed layouts with dimensions, load configurations, and drainage openings.
C. Samples: Provide coating and material samples upon request.

1.4 QUALITY ASSURANCE
A. Manufacturer Qualifications: Minimum of 5 years of experience in producing modular drainage systems.
B. Mock-Up: Provide a mock-up platform if requested by the project owner.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Protect panels and coatings from damage during transportation and storage.
B. Store on a level surface with proper supports to prevent warping or bending.

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.

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PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Please Plant, 200-100 Park Royal S, Vancouver, BC
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2.2 DRAINAGE PLATFORMS

A. Product Nomenclature: GEO-DPL-[Type Code]-[Load Code]-[Finish Code]
Type Code: VLP (Vehicle-Load Platform), PLP (Pedestrian-Load Platform), IND (Industrial Platform).
Load Code: L10 (10-ton capacity), L20 (20-ton capacity), L50 (50-ton capacity).
Finish Code: UVR (UV-Resistant), CRC (Corrosion-Resistant Coating).
Example: GEO-DPL-VLP-L20-CRC (Vehicle-load platform, 20-ton capacity, corrosion-resistant coating).

2.3 MATERIALS

A. Primary Materials:
High-strength steel or reinforced composite panels with anti-corrosion coatings.
UV-resistant finishes to prevent weathering.
B. Performance Ratings:
Load Capacity: Supports up to 50 tons, compliant with ASTM A36.
Corrosion Resistance: Coatings tested to exceed ASTM B117 standards.
UV Stability: Finish tested per ASTM G154 for prolonged sun exposure.

2.4 DIMENSIONS AND CUSTOMIZATION

A. Standard Dimensions:
Panel sizes: 4’ x 4’ to 6’ x 6’.
Thickness: 2” to 4”, dependent on load capacity.
B. Customization Options:
Configurable drainage openings for optimized water flow.
Integrated inspection panels for system maintenance.
Custom coatings and reinforcements for specific environmental requirements.

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PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify that subgrade preparation meets specifications for compactness and levelness.
B. Ensure alignment of platform openings with stormwater systems as per shop drawings.

3.2 INSTALLATION

A. Surface Installation:
Position platforms securely on prepared subgrade for pedestrian or light-duty areas.
Connect drainage systems per manufacturer's recommendations.
B. In-Ground Installation:
Embed platforms in a compacted base for heavy-duty applications.
Ensure secure anchoring and level placement.
C. Hybrid Systems:
Combine platforms with geotextiles or permeable surfaces to enhance water conveyance.

3.3 MAINTENANCE AND CLEANING

A. Cleaning:
Remove debris and sediment regularly from drainage openings.
Use mild cleaning solutions to maintain surface finishes.
B. Inspection and Repairs:
Inspect for structural integrity and coating wear annually.
Replace damaged panels or fasteners promptly.

3.4 PROTECTION

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

END OF SECTION