PLEASE PLANT

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PRODUCT 1.2: Bike Racks | GEO-BKR

SECTION 12 93 13 – BIKE RACKS
PART 1 – GENERAL

1.1 SUMMARY
A. Section Includes:
Commercial bike racks for urban, institutional, and recreational applications.
B. Related Sections:
Section 03 30 00 – Cast-in-Place Concrete: Mounting foundations.
Section 05 50 00 – Metal Fabrications: Custom mounting hardware.

1.2 REFERENCES
A. ASTM A53 – Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated
B. ASTM A123 – Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel
C. ASTM B117 – Standard Practice for Operating Salt Spray (Fog) Apparatus
D. AASHTO – Guide for the Development of Bicycle Facilities

1.3 SUBMITTALS
A. Product Data: Include specifications for dimensions, finishes, and load capacities.
B. Shop Drawings: Provide details on mounting options, installation configurations, and finish selections.
C. Samples: Submit finish and material samples upon request.

1.4 QUALITY ASSURANCE
A. Manufacturer Qualifications: Minimum of five years' experience manufacturing commercial bike racks.
B. Installer Qualifications: Certified personnel with demonstrated experience in bike rack installations.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Protect bike racks from damage during transportation and storage.
B. Store materials in a dry, ventilated area to prevent 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
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2.2 BIKE RACKS

A. Product Nomenclature:
GEO-BKR-[Material Code]-[Capacity Code]-[Finish Code]
Material Code: S (Steel), A (Aluminum), C (Composite)
Capacity Code: 2B (2 Bikes), 5B (5 Bikes), 10B (10 Bikes)
Finish Code: PC (Powder-Coated), HDG (Hot-Dip Galvanized), SS (Stainless Steel)
Example: GEO-BKR-S-5B-PC (Steel bike rack, 5-bike capacity, powder-coated finish)

2.3 MATERIALS

A. Primary Materials
Heavy-duty steel or aluminum tubing with a corrosion-resistant finish
Composite options for lightweight and eco-friendly applications
B. Performance Ratings
Impact Resistance: Designed to withstand daily use in high-traffic areas
Corrosion Resistance: Exceeds ASTM A123 and B117 salt spray standards
Weather Resistance: Powder-coated and galvanized finishes protect against UV exposure, moisture, and temperature fluctuations

2.4 DIMENSIONS AND CUSTOMIZATION

A. Standard Dimensions
Height: 30"–36"
Width: 24"–96" depending on capacity
Diameter: 2"–4" tubing for structural integrity
B. Customization Options
Surface-mounted or in-ground embedded installation
Custom finishes and branding options
Security-enhanced locking mechanisms

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PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify that the installation site is level and free of obstructions.
B. Confirm foundation and clearance requirements per manufacturer guidelines.

3.2 INSTALLATION

A. Surface-Mounted Installation
Anchor with stainless steel expansion bolts or tamper-resistant fasteners
Ensure proper alignment and spacing per project requirements
B. In-Ground Installation
Embed posts in concrete footings per manufacturer specifications
Allow proper curing time before use

3.3 CLEANING AND MAINTENANCE

A. Cleaning
Use mild detergent and water to clean surfaces
Avoid abrasive cleaning tools that may damage the finish
B. Inspection
Perform routine inspections of fasteners and structural integrity
Tighten loose bolts and replace damaged components as needed

3.4 PROTECTION

A. Protect installed bike racks from damage during remaining construction activities.

END OF SECTION