PLEASE PLANT

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**Product 4.5: Inspection Ports | GEO-INS**

**SECTION 33 46 23 – INSPECTION PORTS**
**PART 1 – GENERAL**

**1.1 SUMMARY**
A. Section Includes:
Inspection ports for use in stormwater and drainage systems.
B. Related Sections:
**Section 33 46 00 – Subdrainage**: Coordination with drainage systems.
**Section 31 00 00 – Earthwork**: Subgrade preparation for installation.

**1.2 REFERENCES**
A. ASTM D2444 – Standard Test Method for Impact Resistance of Thermoplastic Pipe and Fittings.
B. ASTM G154 – Standard Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials.
C. ASTM B117 – Standard Practice for Operating Salt Spray (Fog) Apparatus.

**1.3 SUBMITTALS**
A. Product Data: Submit manufacturer's specifications, dimensions, and installation instructions.
B. Samples: Provide a representative inspection port sample for approval.
C. Certificates: Document compliance with applicable ASTM standards.

**1.4 QUALITY ASSURANCE**
A. Manufacturer Qualifications: Minimum of 5 years' experience in manufacturing inspection ports for stormwater applications.
B. Pre-Installation Meeting: Conduct a meeting to coordinate installation procedures and confirm site readiness.

**1.5 DELIVERY, STORAGE, AND HANDLING**
A. Deliver products in manufacturer's original packaging with clear labeling.
B. Store products in a dry, protected area to prevent damage or contamination.
C. Handle inspection ports carefully to avoid impact damage or deformation.

**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

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### 2.2 MATERIALS

A. Product Nomenclature:
GEO-INS-[Type Code]-[Size Code]-[Finish Code].
**Type Code:** S (Standard), H (Heavy Duty), C (Custom).
**Size Code:** 4, 6, 8, 12 (Diameter in inches).
**Finish Code:** UVR (UV-Resistant), COR (Corrosion-Resistant), HYD (Hydrophobic).
Example: **GEO-INS-H-6-COR** (Heavy-duty inspection port, 6-inch diameter, corrosion-resistant finish).

### 2.3 PROPERTIES

**Impact Resistance:** Compliant with ASTM D2444 standards.
**UV Stability**: Meets ASTM G154 for prolonged exposure to sunlight.
**Corrosion Resistance:** Exceeds ASTM B117 for salt spray durability.

### 2.4 DIMENSIONS

**Standard Sizes:** 4", 6", 8", and 12" diameter.
**Height**: Ranges from 6" to 18".

### 2.5 CUSTOMIZATION OPTIONS

Tamper-proof locking mechanisms.
Color-coded tops for system identification.
Custom coatings: UV-resistant, hydrophobic, or reflective finishes.

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**PART 3 – EXECUTION**

**3.1 EXAMINATION**

A. Verify site conditions, ensuring subgrade is level and compacted.
B. Confirm compatibility of inspection ports with the drainage or stormwater system.

3.2 INSTALLATION

A. General Installation:
Install inspection ports in accordance with manufacturer's instructions.
Ensure secure connections with adjoining drainage components.
B. Specific Configurations:
**Direct Attach:** Securely connect ports to stormwater tanks or drainage pipes.
**Surface Mount:** Install flush with ground level for paved areas.
**Submerged Installation**: Place below landscaping or permeable surfaces for minimal visibility.
**C.** Tolerances:
Ensure installation is level and properly aligned with drainage systems.

**3.3 MAINTENANCE AND REPAIR**

A. Cleaning:
Remove debris and sediment from ports during regular inspections.
Clean port surfaces with non-abrasive materials.
B. Repairs:
Replace damaged ports or components promptly.
Re-secure loose or displaced ports to maintain functionality.

**3.4 PROTECTION**

A. Protect installed inspection ports from construction traffic or activities until the system is operational.

**END OF SECTION**