PLEASE PLANT

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Product 4.4: Geotextile Solutions | GEO-TXT

SECTION 31 32 19 – GEOTEXTILE SOLUTIONS
PART 1 – GENERAL

1.1 SUMMARY
A. Section Includes:
Geotextile materials for erosion control, soil stabilization, drainage, and filtration applications.
B. Related Sections:
Section 31 00 00 – Earthwork: Subgrade preparation.
Section 33 46 00 – Subdrainage: Coordination with drainage systems.

1.2 REFERENCES
A. ASTM D4491 – Standard Test Methods for Water Permeability of Geotextiles.
B. ASTM D4833 – Standard Test Method for Index Puncture Resistance of Geotextiles.
C. ASTM D5261 – Standard Test Method for Measuring Mass per Unit Area of Geotextiles.

1.3 SUBMITTALS
A. Product Data: Submit manufacturer's specifications, performance data, and installation guidelines.
B. Samples: Provide 12" x 12" geotextile samples for review.
C. Certificates: Submit documentation of compliance with ASTM standards.

1.4 QUALITY ASSURANCE
A. Manufacturer Qualifications: Minimum 5 years of experience in producing geotextiles for commercial applications.
B. Pre-Installation Meeting: Conduct a meeting to review site preparation, installation procedures, and compatibility with adjacent systems.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Deliver materials in manufacturer's original packaging, labeled with product name and batch number.
B. Store geotextiles on a clean, dry surface, protected from direct sunlight, chemicals, and physical damage.
C. Handle geotextiles with care to avoid tears, punctures, and contamination.

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 MATERIALS
A. Geotextile Nomenclature: GEO-TXT-[Type Code]-[Strength Code]-[Finish Code].
Type Code: NW (Non-Woven), W (Woven), HP (High-Performance).
Strength Code: L (Lightweight), M (Medium Duty), H (Heavy Duty).
Finish Code: UVR (UV-Resistant), HYD (Hydrophobic Coating), BIO (Biodegradable).
Example: **GEO-TXT-W-M-UVR** (Woven geotextile, medium duty strength, UV-resistant finish).

2.3 PROPERTIES
Tensile Strength: Up to 500 lbs/in as per ASTM D4595.
Water Permeability: Compliant with ASTM D4491.
Puncture Resistance: Meets ASTM D4833 standards.

2.4 STANDARD DIMENSIONS
Roll Widths: 3’ to 15’.
Roll Lengths: Up to 300’.
Thickness: Ranges from 0.5 mm to 4 mm.

2.5 CUSTOMIZATIONAL OPTIONS
Adjustable porosity levels for drainage or filtration.
Coatings: UV-resistant, hydrophobic, or biodegradable finishes.

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PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify that the subgrade is prepared, compacted, and free of debris or sharp objects that could damage the geotextile.

B. Notify the Architect/Engineer of any site conditions unsuitable for installation.

3.2 INSTALLATION

A. General Installation:

Unroll geotextile material over the prepared surface without stretching or wrinkling.

Overlap edges by 12”–18” to ensure seamless coverage.

Secure geotextile using stakes, sandbags, or approved fasteners to prevent displacement during backfill operations.

B. Specific Applications:

Erosion Control: Use biodegradable stakes for securing geotextiles on slopes.

Drainage Systems: Pair geotextile with modular stormwater tanks or subdrainage systems.

Soil Stabilization: Combine geotextile with aggregate layers to enhance load distribution.

C. Tolerances:

Ensure no visible tears, punctures, or unprotected edges after installation.

3.3 MAINTENANCE AND REPAIR

A. Cleaning:

Remove accumulated debris and sediment from geotextile surfaces.

Ensure drainage openings remain unclogged for optimal performance.

B. Repairs:

Replace damaged geotextile sections promptly to prevent performance loss.

Secure new sections with a minimum 12” overlap over existing materials.

3.4 PROTECTION

A. Protect installed geotextile from construction traffic and activities until permanent coverings are in place.

END OF SECTION