PLEASE PLANT

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

Product 4.3: Permeable Pavers | GEO-PVR

SECTION 321413 – PERMEABLE PAVERS
PART 1 – GENERAL

1.1 SUMMARY
A. Section Includes:
Permeable pavers for pedestrian, vehicular, and industrial applications, designed to enhance stormwater management and support sustainable urban development.
B. Related Sections:
Section 334100 – Storm Utility Drainage Piping for integration with stormwater systems.
Section 312000 – Earth Moving for subgrade preparation and base installation.

1.2 REFERENCES
A. ASTM C936 – Standard Specification for Solid Concrete Interlocking Paving Units.
B. ASTM C1781 – Standard Test Method for Surface Infiltration Rate of Permeable Pavements.
C. ASTM C140 – Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units.
D. AASHTO T-180 – Standard Test Method for Moisture-Density Relations of Soils Used in Construction.

1.3 SUBMITTALS
A. Product Data: Provide manufacturer specifications, dimensions, infiltration rates, and finish options.
B. Shop Drawings: Include layouts, joint details, and drainage configurations.
C. Samples: Submit color, finish, and material samples upon request.

1.4 QUALITY ASSURANCE
A. Manufacturer Qualifications: Minimum of five years of experience producing permeable pavers.
B. Mock-Up: Provide a mock-up area if requested by the project owner for approval before full installation.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Protect pavers from damage during transport and storage.
B. Store on level supports to prevent breakage or warping.

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
Address: 200-100 Park Royal S, Vancouver, BC
Email: info@pleaseplant.com | Phone: +1 236-323-2179

2.2 PERMEABLE PAVERS

A. Product Nomenclature: GEO-PVR-[Type Code]-[Load Code]-[Finish Code]
Type Code: PED (Pedestrian), VEH (Vehicular), IND (Industrial).
Load Code: L10 (10-ton capacity), L20 (20-ton capacity), L50 (50-ton capacity).
Finish Code: NAT (Natural Stone), TXT (Textured), CLR (Custom Color).
Example: GEO-PVR-VEH-L20-NAT (Vehicular permeable paver, 20-ton capacity, natural stone finish).

2.3 MATERIALS

A. Primary Materials:
Sustainable concrete, composite, or natural stone pavers with permeable joints.
High-strength materials designed for pedestrian and vehicular applications.
B. Performance Ratings:
Drainage Efficiency: Exceeds ASTM C1781 standards, allowing water infiltration to reduce runoff.
Load Capacity: Supports up to 50 tons, compliant with ASTM C936 for commercial-grade traffic loads.
Weather Resistance: Designed for freeze-thaw durability and extreme climate conditions per ASTM C140.

2.4 DIMENSIONS AND CUSTOMIZATION

A. Standard Dimensions:
Paver sizes: 4” x 8”, 6” x 12”, 12” x 12” (custom sizing available).
Thickness: 2” for pedestrian, 3.5” for vehicular, 4”+ for industrial applications.
B. Customization Options:
Various surface textures, colors, and patterns to complement urban landscapes.
Modular configurations for flexible design layouts.
Integrated edging and border options for seamless installation.

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PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify subgrade preparation meets structural requirements for drainage and load-bearing capacity.
B. Confirm alignment of paver layout with site grading and stormwater systems.

3.2 INSTALLATION

A. Base Preparation:
Install compacted aggregate base with appropriate depth based on load classification.
Ensure proper slope and drainage conditions per manufacturer guidelines.
B. Paver Installation:
Lay pavers in approved patterns, maintaining consistent joint spacing.
Fill joints with permeable aggregate to ensure proper infiltration.
C. Edge Restraints:
Secure pavers with rigid or flexible edging systems to prevent shifting.

3.3 MAINTENANCE AND CLEANING

A. Cleaning:
Remove debris and sediment from joints and surface regularly.
Use low-pressure washing to maintain permeability.
B. Inspection:
Inspect paver joints and base annually for settlement or clogging.
Refill or replace permeable joint material as needed.

3.4 PROTECTION

A. Protect installed pavers from excessive loads during remaining construction activities.

END OF SECTION