



POWERBLOCK PERMEABLE PAVEMENT

HIGH-PERFORMANCE PERMEABLE PAVEMENT FOR
STORMWATER MANAGEMENT



PowerBLOCK is an open-joint permeable paver system that moves rainfall through pavement up to 10 times faster than traditional permeable/porous systems. With a guaranteed surface infiltration rate of over 1,000 inches per hour, PowerBLOCK provides a drivable surface that requires minimal attention from project owners.

ADVANTAGES:

- Moves water rapidly through the drivable surface
- Reduces maintenance and life cycle costs
- Modular, removable, replaceable
- Supports all types of traffic loads
- No minimum quantities
- Available in several colors (color mixed into concrete mix)

The precast 4.5 inch tall blocks have built in 1/4" spacers that are not filled with aggregate, making maintenance simpler, less frequent (typically 3-5 year intervals) and more economical than other permeable/porous options.

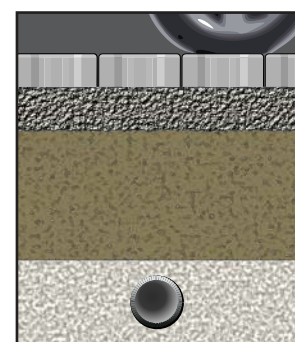
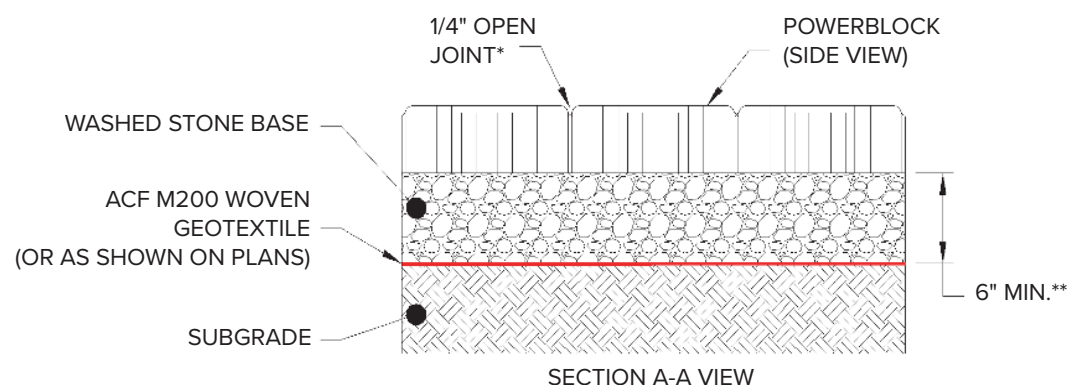
As a precast block, PowerBLOCK is perfect for small areas. There are no minimum quantities as compared to cast-in-place porous alternatives that are driven by complex mix-design and installation protocols.

SPECIFICATIONS

PROPERTY	DESCRIPTION	VALUE
Dimensions	Length x Width x Height	11.75" X 13.70" X 4.5" (+/- 1/8")
Block Weight	Pounds	44 Lbs. (Minimum)
Loading Capability	Traffic Rating	HS-20/HS-25
Open Joint Width	Inches	0.25" (+/-0.02")
Joint Filler Between Blocks	Material Used	None Allowed
Average Surface Infiltration Rate*	ASTM C-1701/C-1701-M09; ASTM C-1781/C-140	1,000 In./Hr
Compressive Rate	ASTM D-6684/C-140	4,000 PSI (Average) 3,500 PSI (Minimum)
Freeze/Thaw Resistance	ASTM C-67/C-1645/C-936	Compliant
Abrasion Resistance	C-418	Compliant

*Post-installation, field-verified

PRODUCT ILLUSTRATION



Provide water quality treatment by incorporating a sand layer or innovative media below the surface.

MAINTENANCE

Routine maintenance is recommended to keep open joints free of sediment and debris and reduce the need for deep cleaning. Routine vacuuming should be performed using smaller handheld devices, walk-behind units or vacuum trucks, such as the Elgin Whirlwind. Adjust vacuum device settings to avoid disturbing blocks. Avoid using mechanical sweepers to perform maintenance as these may not clear joints as effectively and result in reduced performance.

Deep cleaning should combine vacuuming with high pressure jets to loosen and remove accumulated materials.

Deep cleaning should be performed when:

- A) The surface infiltration rates across more than 75% of the surface area fall below 10% of the rate required.
- B) Ponding of water on a surface of 10 sq. ft. remains for a period longer than 24 hours.

Contact Ferguson Waterworks for recommendations on local maintenance companies capable of completing this work.

For more information, ask your local Urban Green Infrastructure or Geo/Stormwater Specialist or visit acfenvironmental.com