



INSTALLATION GUIDELINES

SUBGRADE:

Prepare subgrade as noted on plans. If infiltration into native soils is desired, compaction of underlying subgrade soil should be avoided or minimized. Subgrade should be uniform, level, and free of lumps, debris, roots, and other organic material. All questions about the adequacy of the subgrade should be directed to the owner's engineer, who will approve the subgrade conditions prior to placement of the stone base.

GEOTEXTILE:

Place a woven monofilament geotextile, such as M200 Woven Monofilament or as specified in the contract documents, on the subgrade base and sides of the excavation to prevent contamination of the clean aggregate base. Overlap seams a minimum of 12-inches in all directions, or as shown on plans.

BASE:

Install base materials in layers - uniformly spread and compacted as shown on plans and as noted in Part 3, Section 1C of the PowerBlock Specification. Finished surface should be rolled first, and then finished with a 10,000-psi plate compactor in both the perpendicular and parallel directions. Compaction is complete when no movement of base materials is observed. Confirm finished elevations of the base match plan requirements.

Completed base shall be proof rolled and approved by engineer. Reconstruct areas where deflection exceeds acceptable limits as determined by engineer.

PAVERS:

Inspect PowerBlock pavers, ensuring they are free of foreign material before installation.

Set PowerBlock pavers as shown on plans, within the specified orientation, lines and grades shown on plans. Pavers shall be installed straight and true to the required lines. Ensure joint widths are consistent throughout installation. It is typically preferable to begin along a critical edge (such as a curb) to minimize number of fields cuts, working from the lowest elevations to the highest. Continue installing blocks adjacent to previously installed units.

EDGING:

Edge restraints are important to prevent PowerBlock from shifting after placement, particularly on installations subject to traffic loads. In areas without a curb, a flush curb can be installed level with the top of the blocks. It is much easier to install all edge restraints AFTER PowerBlock has been installed.

- If edge restraints are installed after placement of PowerBlock, cover pavers with fabric to protect blocks from concrete splatter and debris during installation.
- If edge restraints are installed prior to placement of PowerBlock, pavers will need to be cut as needed to accommodate field conditions and to achieve a consistent pattern and smooth finished edge. Chip stone may be used to fill minor gaps around edges of PowerBlock if desired, and concrete may be used around utility cut-outs.

FINISHING:

When a substantial area of PowerBlock pavers has been installed, the pavers shall be static rolled to ensure a consistent top elevation. Replace pavers that are broken, substantially chipped, or stained during construction.

The joints between the blocks MUST NOT be backfilled with aggregates or sand. The joints shall be left open throughout the life of the system, including following maintenance of the permeable pavement.

PROTECTION:

If construction is on-going after completing the PowerBlock installation, protect the system from construction equipment tracking or sedimentation from runoff to prevent premature contamination and unnecessary clogging of open joints.