

# FIREROCK 1.75"+ PAVER INSTALLATION GUIDELINES

The following describes recommended installation, care and maintenance tips for FireRock Concrete Pavers 1.75"+ thickness when installed on a sand bed or over a compacted aggregate base. These methods are for residential pedestrian traffic as well as light vehicular use (2.75" pavers only) and are not recommended for commercial or municipal applications.

To ensure proper performance, please install pavers in accordance with the following guidelines as well as Interlocking Concrete Paver Institute (ICPI) Section 02784.

**ENVIRONMENTAL REQUIREMENTS:** Avoid installation in extreme hot or cold weather conditions or during heavy rainfall or snowfall. Do not install frozen bedding sand or install pavers on frozen aggregate base or bedding sand.

Read installation tips in their entirety before beginning. If you have any questions about FireRock Concrete Pavers or installation, please call the Technical Service team at (888) 876-1025.

## THE FOLLOWING TIPS ARE RECOMMENDED FOR INSTALLATION ON A SAND BED OR OVER A COMPACTED AGGREGATE BASE

### BEFORE YOU BEGIN

- Store all materials in original packaging – pavers should be stored on their ends and not stacked
- Place pallets on a sturdy, level surface – do not double stack pallets under any circumstances
- All mortar, adhesives, grout, sealers, cleaning products and any other products used during installation/care/maintenance of the pavers must meet applicable industry standard set forth by ANSI and TCNA and be appropriate for FireRock Pavers
- Review local building code and ensure products are installed to meet all requirements

### BEDDING AND JOINT SAND

- Dig down approx. 8" below finish grade and compact soil – compaction is recommended to at least 98% standard proctor density per ASTM D698 for pedestrian areas and residential driveways.
- Once completed, fill the area with approx. 4" crush and run, compacting and leveling every 2" to condense the base into a solid foundation

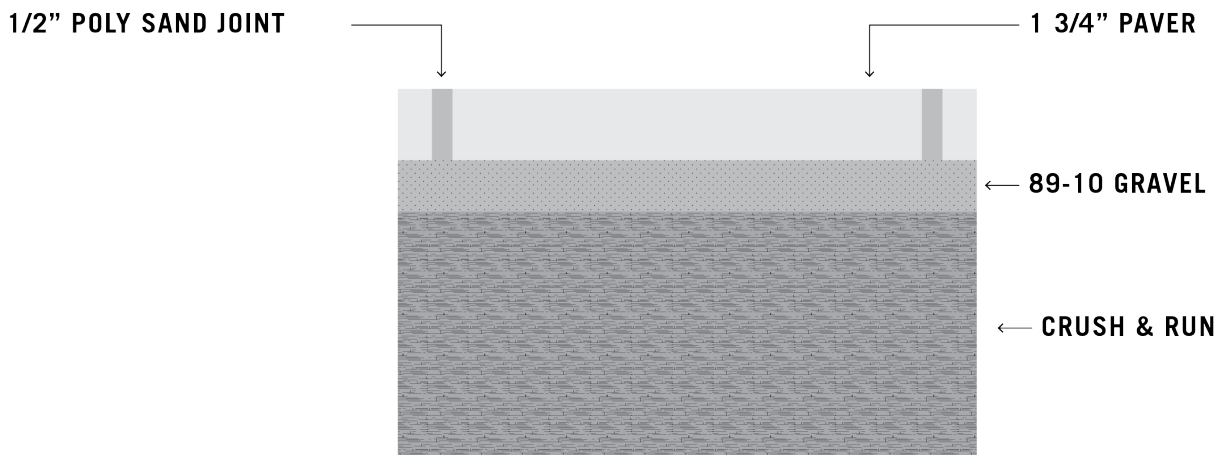
**NOTE:** the elevations and surface tolerance of the base determine the final surface elevations of the concrete pavers. The paver installer cannot correct deficiencies in the base surface with additional bedding sand or by any other means. Therefore, the surface elevations of the base should be approved by the General Contractor prior to placing bedding sand and concrete pavers.

- Once approved, add approx. 2" layer of 89-10 (or sand that conforms to the grading requirements of ASTM C33) on top of crush and run and compact

### INSTALLATION

- Spread bedding sand evenly over the base course and screed to a nominal 1" thickness, not exceeding 1.5" thickness – Do NOT use bedding sand to fill depressions in the base surface
- Spread only about as much bedding sand as you can cover with pavers in one day

- Lay pavers down in approved pattern allowing 1/2" joints between each paver on all sides, making horizontal adjustments to laid pavers with rubber hammers as required
- Fill gaps at the edges of the paved area with cut pavers or edge units – cut pavers with a double blade paver splitter or masonry saw
- After area is completely paved, compact the pavers into the sand with a mechanical plate vibrator using rollers or a neoprene pad
- Simultaneously spread, sweep and compact dry joint sand (polymeric sand) into joints continuously until full, staying approx. 6" away from any unrestrained edges
- Continue until entire area is compacted and all joints full
- For multi-day jobs, protect any incomplete areas with plastic sheets overnight to prevent exposed bedding sand from becoming saturated from rainfall
- Broom clean surface to remove all excess joint sand



## CLEAN AND SEAL

All FireRock pavers should be sealed as soon as possible after installation. While sealing will not ensure that pavers will not stain, it will provide some benefit and allow user additional time to clean pavers. Additionally, sealing will assist in preserving color and original appearance.

- Immediately following installation, clean pavers with a neutral, non-acidic cleaner following manufacturer's instructions
- Allow pavers to dry 24 hours, protecting them from foot traffic, dirt and debris
- Seal pavers with a water-based penetrating sealant following manufacturer's instructions

Pavers need to be resealed periodically. Consult the sealer manufacturer for specific guidelines.

## CLEANING AND MAINTENANCE

Cleaning of FireRock pavers should be performed as needed using a non-acidic multi-use cleaner for use in concrete pavers, concrete flat work and retaining walls. These advanced cleaners dislodge deep set dirt and grime and environmental soiling. Always follow manufacturer's written instructions when using a particular cleaner and spot test as small area before cleaning larger areas.