PACIFIC INTERLOCK PAVINGSTONE

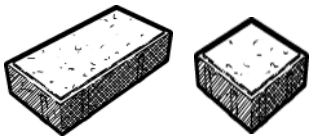
**SALES:**
1195 S. DeAnza Blvd
San Jose, CA 95129
Off. 408.257.6345
Fax 408.257.3849

**PLANT:**
1895 San Felipe Rd
Hollister, CA 95023
Off. 831.637.9163
Fax 831.637.0756

www.pacinterlock.com

# Hydro-Flo™ Technology
# ESTATE SERIES 80mm

**GENERAL SPECIFICATIONS**



Section Includes
- A. Concrete units
- B. Bedding sand
- C Execution

References
- A. American Society of Testing Materials (ASTM)
  1. C 936-08, Standard Specification for Interlocking Concrete Paving Units
  2. C 140, Standard Test Methods of Sampling and Testing Concrete Masonry Units
  3. C 136, Method for Sieve Analysis for Fine and Coarse Aggregate
  4. C 33, Specification for Concrete Aggregates
  5. D 2940, Standard Specification for Graded Aggregate Material for Bases

Quality Assurance
- A. Engage an installer who has successfully completed installations similar in type and size to this project. Installer shall provide certification of experience.
- B. As applicable by state/provincial and local laws, contractor shall hold a current contractor's and business license in the state/ province and locality where work is performed.

Delivery, Storage And Handling
- A. Deliver interlocking pavers to the site in plastic wrapped cubes capable of transfer by fork lift. Unload pavers at job site in such a manner that no damage occurs to the product.
- B. Cover sand and topsoil with waterproof covering to prevent exposure to rainfall or removal by wind. Secure the covering in place.

Environmental Conditions
- A. Do not install sand or pavers during heavy rain or snowfall.
- B. Do not install frozen sand or topsoil.

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**PART 2: PRODUCTS**

E: 12” x 6” x 3 1/8”
Stones per SF: 2
Stones per pallet: 144
Coverage: 72 sf per pallet
Weight: 34# / sf, 2493# / plt

E: 6” x 6” x 3 1/8”
Stones per SF: 4
Stones per pallet: 288
Coverage: 72 sf per pallet
Weight: 31# / sf, 2291# / plt

Meets the requirements of ASTM C936-08: Average compressive strength not less than 8000psi (55MPa) with no individual unit less than 7200 psi (50 MPa). Dimensional tolerance: Measured length or width shall not differ by more than ±0.063” [1/16”] (±1.6mm) from specified dimensions. Measured height shall not differ by more than ±0.125” [1/8”] (±3.2mm) from the specified dimensions. Test results are certified by the manufacturer.

CRUSHED STONE FILLER, BEDDING, BASE AND SUBBASE
**No Substitutions Permitted**

A. Crushed stone with 90% fractured faces, LA Abrasion < 40 per ASTM C 131, minimum CBR of 80% per ASTM D 1883.
B. Do not use rounded river gravel.
C. All stone materials shall be washed with less than 1% passing the No. 200 sieve.
D. Joint/opening filler, bedding, base and subbase: conforming to ASTM D 448 gradation as shown in Tables 1, 2 and 3 below:

Note: No. 89 or finer gradation may be used to fill permeable pavers with narrow joints.

Table 1
ASTM No. 8 Grading Requirements
Bedding and Joint/Opening Filler

| Sieve Size | Percent Passing |
|---|---|
| 12.5 mm (1/2 in.) | 100 |
| 9.5 mm (3/8 in.) | 85 to 100 |
| 4.75 mm (No. 4) | 10 to 30 |
| 2.36 mm (No. 8) | 0 to 10 |
| 1.16 mm (No. 16) | 0 to 5 |

Table 2
ASTM No. 57 Base
Grading Requirements

| Sieve Size | Percent Passing |
|---|---|
| 37.5 mm (1 1/2 in.) | 100 |
| 25 mm (1 in.) | 95 to 100 |
| 12.5 mm (1/2 in.) | 25 to 60 |
| 4.75 mm (No. 4) | 0 to 10 |
| 2.36 mm (No. 8) | 0 to 5 |

Table 3
ASTM No. 2 Subbase
Grading Requirements

| Sieve Size | Percent Passing |
|---|---|
| 75 mm (3 in.) | 100 |
| 63 mm (2 1/2 in.) | 90 to 100 |
| 50 mm (2 in.) | 35 to 70 |
| 37.5 mm (1 1/2 in.) | 0 to 15 |
| 19 mm (3/4 in.) | 0 to 5 |

E. Gradation criteria for the bedding and base:

Note: Dx is the particle size at which x percent of the particles are finer. For example, D15 is the particle size of the aggregate for which 15% of the particles are smaller and 85% are larger.

1. D15 base stone /D50 bedding stone < 5.
2. D50 base stone /D50 bedding stone > 2.

**PART 3: EXECUTION**

Note: The specifier should be aware that the top surface of the pavers after compaction may be 1/8 to 1/4 in. (3 to 7 mm) above the final elevations after compaction. This difference in initial and final elevations is to compensate for possible minor settling.

Examination

Note: For vehicular areas, specify compaction of the soil subgrade to a minimum of 95% standard Proctor density for dense-graded aggregate bases. Density should be monitored in the field with a nuclear density gauge. Compaction of open-graded bases should be with at least five passes of roller compactor without vibration. Stabilization of the soil and/or base material may be necessary with weak or saturated soils.

A. Verify that base is dry, uniform, even, free of any sediment (if open-graded), and ready to support sand, pavers and imposed loads.

B. Verify gradients and elevations of base are correct.

C. Verify location, type, installation and elevations of edge restraints around the perimeter area to be paved.

D. Beginning of installation means acceptance of base and edge restraints.

Installation

A. Spread the sand evenly over the compacted, dense-graded base course and screed uniformly to 1 – 1 ½ °in. (25 - 40 mm) thickness. The screeded sand s hould not be disturbed. Place sufficient sand to stay ahead of the installed pavers.

B. Ensure that pavers are free from foreign materials before installation.

C. Lay the pavers in the pattern(s) as shown on the drawings. Maintain straight pattern lines.

D. Joints between the pavers shall be between 1/16 in. and 1/8 in. (2 to 4 mm) wide.

E. Fill gaps at the edges of the paved area with cut pavers or edge units.

F. Cut pavers to be placed along the edge with a double-bladed splitter or masonry saw.

G. Compact and seat the pavers into the screeded bedding sand using a low amplitude, 75-90 Hz plate compactor capable of at least 5,000 lbs. (22 kN) centrifugal compaction force

H. Vibrate and compact the pavers again, sweeping excess top sand into the joints and openings until it is within ½ in. (13 mm) from the top surface. This will require at least two or three passes with the compactor. Do not compact within 3-ft (1 m) of
the unrestrained edges of the paving units.