

PACIFIC INTERLOCK PAVINGSTONE

SALES OFFICE

1193 South DeAnza Blvd, #B
San Jose, CA 95129
Off (408) 257-3645
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PLANT

1895 San Felipe Road
Hollister, CA 95023
Off (831) 637-9163
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DIAMOND 60mm

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

- 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 shall 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.

PART 2: PRODUCTS

Diamond: 9.5" x 9.5" x 2 3/8"
Stones per SF: 2.13
Stones per pallet: 192
Coverage: 90 sf per pallet

Meets the requirements of ASTM C936-08: Exposed face area of $\leq 101 \text{ in}^2$ (0.065 m²), 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 $\pm 0.063"$ [1/16"] ($\pm 1.6\text{mm}$) from specified dimensions. Measured height shall not differ by more than $\pm 0.125"$ [1/8"] ($\pm 3.2\text{mm}$) from the specified dimensions. Test results are certified by the manufacturer.

Bedding Sand

Note: The type of sand used for bedding is often called concrete sand. Sands vary regionally. Contact contractors local to the project and confirm sand(s) successfully used in previous similar applications. Bedding sand is not used in ditch liner applications, slope protection, riparian stabilization, or with boat ramps constructed with concrete grid pavers.

Table 1
Grading Requirements for Bedding Sand

ASTM C33 CSA A23.1-M94

Sieve Size / Percent Passing		Sieve Size / Percent Passing	
3/8 in. (9.5 mm)	100	10 mm	100
No. 4 (4.75 mm)	95 to 100	5 mm	95 to 100
No. 8 (2.36 mm)	85 to 100	2.5 mm	80 to 100
No. 16 (1.18 mm)	50 to 85	1.25 mm	50 to 90
No. 30 (0.600 mm)	25 to 60	0.63 mm	25 to 65
No. 50 (0.150 mm)	0 to 30	0.315 mm	10 to 35
No. 100 (0.150 mm)	2 to 10	0.16 mm	2 to 10

Sieve Size / Percent Passing

1/2 in. (12.5 mm)	100
3/8 in. (9.5 mm)	85 to 100
No. 4 (4.75 mm)	10 to 30
No. 8 (2.36 mm)	0 to 10
No. 16 (1.18 mm)	0 to 5

Note: Local, state or provincial standards for aggregate base materials should be used for the gradation and quality of dense-graded aggregate base materials under concrete interlock paving installations. This material should be compacted to a minimum of 95% standard Proctor density.

Table 3
ASTM D 2940 Gradation for Dense-Graded Base

Sieve Size / Percent Passing

2 in. (50 mm)	100
1/2 in. (37.5 mm)	95 to 100
3/4 in. (19.0 mm)	70 to 92
1/2 in. (9.5 mm)	50 to 70
No. 4 (4.75 mm)	35 to 55
No. 30 (0.600 mm)	12 to 25
No. 200 (0.075 mm)	0 to 8

Note: For open-graded bases, gradation conforming to ASTM No. 57 crushed stone aggregate is recommended. The material is typically placed in 4 to 6 in. (100 to 150 mm) thick lifts and compacted with at least four passes of a 10 T static roller. The base material should show no visible movement when compaction is complete. It should be kept free from sediment throughout the entire job. The gradation for No. 57 material is given in Table 4 below:

Table 4
ASTM No. 57 Gradation for Open-Graded Base

Sieve Size / Percent Passing

1 1/2 in. (37.5 mm)	100
1 in. (25 mm)	95 to 100
1/2 in. (12.5 mm)	25 to 60
No. 4 (4.75 mm)	0 to 10
No. 8 (2.36 mm)	0 to 5

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 should not be disturbed. Place sufficient sand to stay ahead of the laid 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.

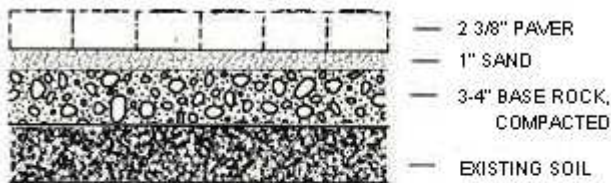
E. Fill gaps at the edges of the paved area with cut pavers or edge units.

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] [aggregate] using a low amplitude, 75-90 Hz plate compactor capable of at least 5,000 lbs. (22 kN) centrifugal compaction force. Note: A rubber or neoprene pad between the compactor and grids may be necessary to prevent cracking or chipping.

H. Vibrate and compact the pavers again, sweeping [topsoil] [the small fraction of the No. 8 aggregate] 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.

**Cross Section Typical Installation
for Patios and Sidewalks**



**Cross Section Typical Installation
Driveways**

