

# Anchor™ Diamond®

Retaining Wall Systems

C R E A T I N G B E A U T I F U L L A N D S C A P E S ™

RETAINERS

®



# Anchor™ Diamond®

The Anchor Diamond® retaining wall stones continue to provide economy of effort in a structural finished product. The rear lip facilitates construction and ensures proper alignment and a precise setback. The Anchor Diamond® stone is available in the distinctive straight or beveled face style and in a wide variety of colors and blends.

## COMPOSITION AND MANUFACTURE

Anchor Diamond® is made from a "no slump" concrete mix. Made under extreme pressure and high frequency vibrations, Anchor Diamond® has a compressive strength greater than 3500psi, a water absorption maximum of 7% and will meet or exceed ASTM 1372.

## INSTALLATION

### 1. Layout

Stake out the wall's placement according to lines and grades on approved plans. Excavate for the leveling pad to the lines and grades shown. For reinforced walls, excavate soil to a dimension behind the wall for placement of grid and reinforced soils. The trench for the leveling pad should be a minimum six inches in front and back of the placed wall unit.

### 2. Leveling Pad

The leveling pad consists of a crushed aggregate compactible base material with a three quarter (3/4) inch maximum top size aggregate, minus the fines. The pad must extend a minimum six (6) inches in front and behind the first course of block and be a minimum six (6) inches in depth. Compact the aggregate in maximum six (6) inch lifts and check top elevation for level.

### 3. Base Course

Place a string line along the back of the block to align the wall units. Begin laying block at the lowest elevation of the wall. Place wall units flat on the leveling pad with block facings aligned according to plans. If necessary remove rear lip of the block so that it will lie flat on the leveling pad. Place the blocks side by side, flush against each other and in full contact with the leveling pad. Level the unit front-to-back and side-to-side. Check the blocks for proper horizontal and vertical alignment.

### 4. Wall Construction

Clean any debris off the top of the blocks. Place the second course of blocks on the base course maintaining a running bond pattern (do not align vertical joints). Push or pull each block forward as far as possible to ensure unit to unit engagement and the correct setback. Fill all voids between and within concrete wall units with drainage aggregate. Backfill with drainage aggregate directly behind the block. Fill behind the aggregate with soil meeting design parameters. Place and compact the backfill material before the next course is laid. Hand-operated equipment should be used within 4 feet of the wall. Avoid driving heavy equipment with in the same area.

### 5. Drainage

Fill in the area behind the blocks with drainage aggregate to a minimum horizontal dimension of 12 inches. Place a perforated drain pipe at the base of the drainage aggregate and above the walls front finished grade at the toe. Daylight or direct the drain to an area lower than the lowest drain elevation in the wall. Additional drainage may be required.

### 6. Compaction

Place the backfill soil behind the drainage aggregate and compact backfill. Backfill within (4) feet of the wall to be compacted with a hand operated compactor. Aggregate is to be level with or slightly below the top of each course. Add soil and compact backfill soil as necessary. Testing for density may be required.

### 7. Geo-Grid Reinforcement Placement

Check approved wall construction plan for grid placement. Determine which courses will have reinforcement grid placed into the backfill. Measure and cut the reinforcement grid to the design length on the plans. The reinforcement grid has a design strength direction to be laid perpendicular to the wall. Place the front edge of the grid on the designated top course to a one and half (1 1/2) inches maximum from the face of the block. Apply the next course of blocks to secure it in place. At the back of the wall, pull the reinforcement taut. Add drainage aggregate behind the blocks, then add the backfill soil and compact. Testing for proper density and compaction may be necessary to meet project requirements. A minimum of six (6) inches of backfill over the grid is required prior to operating most vehicles on top of the reinforcement.

### 8. Finish Grade and Surface Drainage

Protect your wall from water damage and erosion with a finished grade to provide positive drainage away from the top and bottom of the wall structure. To minimize infiltration of water into the top of the backfill area of the wall, place a minimum six (6) inches of soil with low permeability (clay or similar materials).

Complete installation & specification details are available by contacting your Pavestone Sales Representative.

**Note:** Colors are shown as accurately as possible in brochures & samples, but due to the nature of the product, regional color differences and variables in print reproduction, colors may not match exactly.

## APPLICATIONS

Terrace Gardens • Landscape Retaining Walls • Steps • Geosynthetic Reinforced Tall Walls • Erosion Control

## PRODUCT INFORMATION

Anchor Diamond® is available with a straight or beveled face. Quantity/sq. ft. approximately 1.5 stones.



### Anchor™ Diamond® Straight

Nominal Dimensions  
17" L x 12" W x 6" H\*  
Wt./Stone 68 lbs.  
Stones/Pallet 45  
Approx. Wt./Pallet 3,060 lbs.  
Face ft./Pallet 32  
Batter 10.6°  
Product Number 822



### Anchor™ Diamond® Beveled

Nominal Dimensions  
15" 1/2 L x 12" W x 6" H\*  
Wt./Stone 68 lbs.  
Stones/Pallet 45  
Approx. Wt./Pallet 3,060 lbs.  
Face ft./Pallet 29  
Batter 10.6°  
Product Number 821

### Anchor™ Diamond® Step

Nominal Dimensions  
16" L x 12" W x 6" H\*  
Wt./Stone 93 lbs.  
Stones/Pallet 32  
Approx. Wt./Pallet 2,978 lbs.  
Face ft./Pallet NA  
Product Number 828



### Pavestone Cap for Anchor™ Diamond®

Nominal Dimensions  
18" L x 13" 1/2 W x 3" H\*  
Wt./Stone 57 lbs.  
Stones/Pallet 48  
Approx. Wt./Pallet 2,736 lbs.  
Linear ft./Pallet 72  
Product Number 819

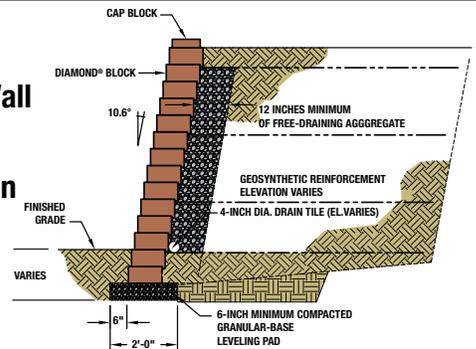


### Anchor™ Wall Cap #824

Nominal Dimensions  
17" L x 12" W x 3" H\*  
Wt./Stone 34 lbs.  
Stones/Pallet 90  
Approx. Wt./Pallet 3,060 lbs.  
Linear ft./Pallet 128  
Product Number 824

Caps not available in all markets.  
\* Fractional dimensions are nominal

## Diamond® Retaining Wall Typical Cross Section



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PLEASE CHECK WITH A PAVESTONE REPRESENTATIVE FOR AVAILABILITY.