



These Step-by-Step
Instructions
Will Guide You
From Start To Finish.



Keystone Pin System Installation Guidelines

Step 1. Prepare the base leveling pad.

Excavate a shallow trench according to the designed length and width of your KEYSTONE wall. Leave enough space behind the KEYSTONE units for a granular backfill drainage zone. The prepared base should be level, with 6" of well-draining granular fill (sand, gravel, 1/2" to 3/4" crushed stone) at 95% Standard Proctor compaction or equal. KEYSTONE recommends additional trench depth for below grade placement of KEYSTONE units on a ratio of 1" below grade for each 8" of wall height above grade. Drainage zone may vary due to site or engineering requirements.

Step 2. Install the base course.

Place the first course of KEYSTONE units side by side (with sides touching) on the prepared base, with the kidney-shaped void facing down. (See illustration.) Make sure each unit is level—side to side and front to back. The first course is critical for accurate and acceptable results. For straight walls, use the pins or the straight back edge of the unit to aid in alignment.

Step 3. Install the interlocking pins.

(Not applicable to Garden Wall or Intermediate Units.) Place the reinforced fiberglass pins into the paired holes in each KEYSTONE unit. (Pins of adjoining units should be 12" on center.) Once in place, the pins create an automatic setback for the additional courses.

Step 4. Install and compact backfill.

Fill in all voids—inside, between and behind the KEYSTONE units to the extent of the drainage zone—using 1/2" to 3/4" crushed stone or clean, well-draining granular fill. Compact the fill to eliminate settling. Use existing soils for backfill behind the gravel drainage zone. Compact to 95% Standard Proctor compaction and place fill in 8" lifts on a course-by-course basis. Sweep off any pebbles or debris so the KEYSTONE units rest evenly upon each other. Backfill and compact at every 8" course. (Use only walk-behind compaction equipment within 3' behind the units.)

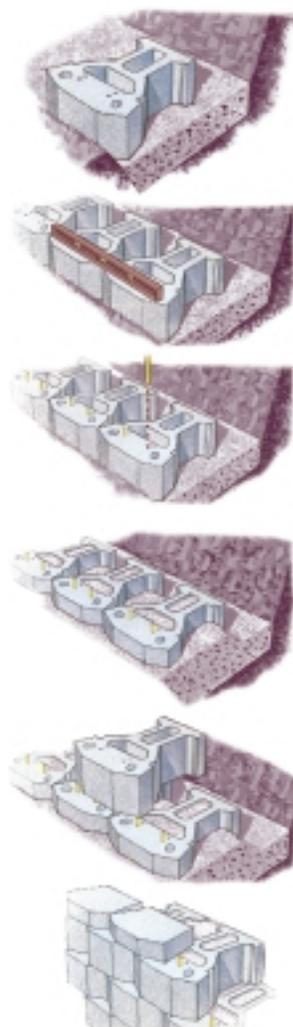
Step 5. Install additional courses.

Place the next course of KEYSTONE units over the fiberglass pins from the units below, fitting the pins into the kidney-shaped recesses. Center the unit over the two underlying units as shown in the diagram. Pull the KEYSTONE unit toward the face of the wall until it makes full contact with both pins or rear lips. For each remaining course, repeat steps 3, 4 and 5.

Step 6. Install KEYSTONE Caps.

Complete your wall with KEYSTONE Caps. In areas of high public usage, apply cap seal adhesive on the top surface of the last course before applying cap units. Place the KEYSTONE Cap over the pins on the underlying unit. Pull the cap forward to the automatic setback position. Backfill and compact to finish grade.

Instructions apply to all KEYSTONE unit sizes.



These guidelines do not take into account geological variations in site and soil conditions. Further engineering considerations may be necessary. None of the information enclosed herein should be construed as a construction detail. For engineering assistance or construction details, contact your Anchor Sales Representative.