



**Commercial Projects**



**Residential Projects**



**Tiered Walls**

For low (non-structural) landscape retaining walls, Keystone Century Wall can be constructed as an unreinforced gravity wall as shown in the chart below.

**GRAVITY WALLS** (maximum unreinforced wall height)

MAXIMUM HEIGHT	NEAR VERTICAL		8.8° +/- BATTER	
	Level	3H:1V	Level	3H:1V
SAND/GRAVEL PHI = 34°	2'-4" (0.7m)	2'-4" (0.7m)	3'-8" (1.1m)	3'-0" (0.9m)
SILTY SAND PHI = 30°	2'-4" (0.7m)	1'-8" (0.5m)	3'-0" (0.9m)	3'-0" (0.9m)
SILT/LEAN CLAY PHI = 26°	2'-4" (0.7m)	1'-8" (0.5m)	3'-0" (0.9m)	2'-4" (0.7m)

Distributed By:



*Retaining Excellence™*

Keystone is a subsidiary of



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# KEYSTONE Century Wall.®



## TIMELESS BEAUTY

*Experience Old World Charm on a Grander Scale...*

# Keystone Century Wall®

*The Keystone Century Wall® random-patterned appearance provides the look of hand-crafted, natural stone with the design and construction advantages found in Keystone pin-connected retaining wall systems.*

Specifically crafted for taller wall structures and heavy-loading conditions, Keystone Century Wall offers the distinctive appearance and character of a random-patterned, natural stone wall with the structural integrity, performance and the environmental friendliness of concrete.

Three different-sized Keystone Century Wall units give the appearance of classic, hand-crafted stone, yet make it fast to assemble and able to create visually stunning and heavy-duty wall structures. Keystone Century Wall is perfect for residential, commercial, industrial and institutional applications.

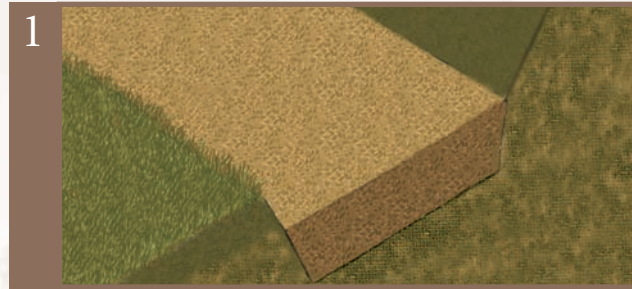
Keystone Century Wall utilizes a unique, patented fiberglass pin connection method for added structural integrity and performance. The open-core design of Keystone Century Wall units allow for additional facial stability and interlocking capacity. In large-scale and tall wall applications, Keystone Century Wall offers the design freedom to create curves, 90° corners, battered and near-vertical walls, terraces, and more.

Keystone Century Wall is the ultimate wall system to handle the big jobs with beauty and brawn. Offering a quaint, old-world appearance while providing superior strength, Keystone Century Wall can rise to great heights with appropriate engineering.

## GENERAL NOTES

- Unit type, size and weight vary by region. Unit depth (face to tail) may vary up to one inch + (25mm) due to texture variations.
- Remove any excess concrete slag from pin holes and receiving channels as required to assemble wall. During manufacturing, some concrete crumbs may deposit in these areas and should be removed to permit pins to be placed in the appropriate holes and receiving channels.
- Cut or split units (with a mason saw, hydraulic break or chisel and hammer) wherever units need to be altered to allow construction to be finalized.
- When cutting concrete units, always wear safety goggles, gloves and filter mask per manufacturer's recommendations.

## PREPARE THE BASE LEVELING PAD



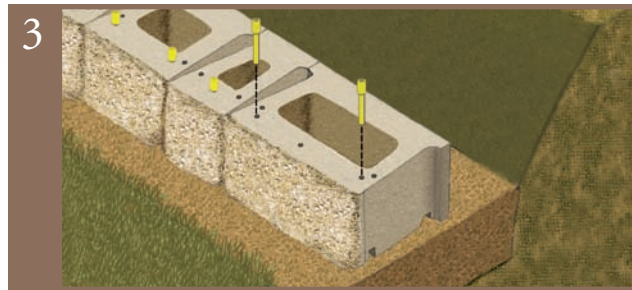
Remove all surface vegetation and debris. Do not use this material as backfill. After selecting the location and length of the wall, excavate the base trench to the designed width and depth. Start the leveling pad at the lowest elevation along wall alignment. Prepare the leveling pad base with eight inches (200mm) of well-compacted granular fill (gravel, road base or 1/2-inch to 3/4-inch (10 - 20mm) crushed stone). At required elevation changes in the leveling pad, step up in eight inch (200mm) increments. Compact to 95% Standard Proctor or greater. Do not use PEA GRAVEL or SAND for leveling pad.

## INSTALL THE BASE COURSE



In a random arrangement, place the first course of Keystone Century Wall units end to end (with front corners touching) on the prepared base. The surface of the unit with the long groove (receiving channel) near the front face of the unit should be placed down and the open pin holes should face up, as shown. Make sure each unit is level - side to side and front to back. Leveling the first course is critical for accurate and acceptable results. For alignment of straight walls, use a string line positioned along the unit pin holes for accuracy. Minimum embedment of base course is eight inches (200mm) below grade. Typical embedment is H/20 (Height/20).

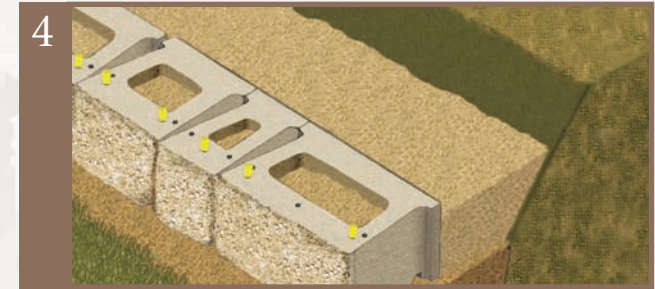
## INSERT THE FIBERGLASS PINS



Place shouldered fiberglass pins into the appropriate holes to achieve the desired setback position of the Keystone Century Wall units. Place pins in the front most hole(s) for near vertical alignment. Place pins in the rear most holes for an 8.8° setback per course.

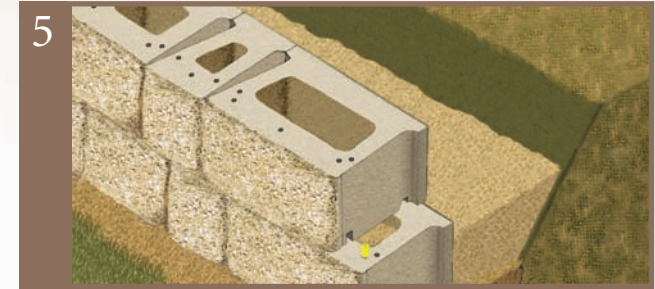
NOTE: The large unit has an "optional" pin hole for use in making sure small units above do not slip between pins.

## INSTALL DRAINAGE FILL & BACKFILL



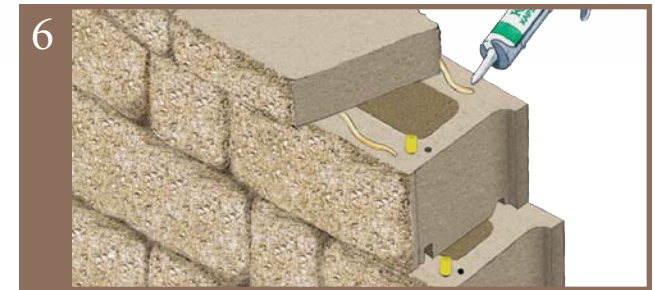
Once the pins have been installed, provide 1/2-inch 3/4-inch (10-20mm) crushed stone drainage fill behind the units to a minimum distance behind the tail of one foot (300mm). Fill all open spaces between units and open cavities/cores with the same drainage material. Proceed to place backfill soil in maximum eight inch (200mm) layers and compact to 95% Standard Proctor with the appropriate compaction equipment. Note: Do not run heavy (ride-on) compaction equipment within three feet (1m) of back of wall. Do not use PEA GRAVEL or SAND for drainage fill.

## INSTALL ADDITIONAL COURSES



Place the next course of Keystone Century Wall units over the fiberglass pins, fitting the pins into the long receiving channel recess in the units above. Push/pull the Keystone Century Wall units toward the face of the wall until the channel makes full contact with the pins. Each course should be built in a random arrangement with the only rule of thumb being to avoid vertical joint alignment. (i.e. stack bonding)

## CAPPING THE WALL



Make sure the top of the wall is clean and debris-free in preparation for the cap or coping. With units dry and clean, use Keystone KapSeal™ construction adhesive (or the equivalent) for a mechanical bond. Install the Keystone Century Wall capping unit, architectural precast concrete or cut stone as a coping element. Cap may be flush or overhanging as required by aesthetics and design.