



## STRUCTURAL RETAINING WALL

# KEYSTONE COMPAC® III TRI-PLANE ST

A specifier's favorite, the Keystone Compac Tri-plane ST combines a familiar face style with cost saving versatility and wall performance. Installers prefer the Compac unit's lighter weight and tail design, which make it easy to handle. Trusted by architects, engineers and contractors around the world, the Keystone Compac unit utilizes the proven Keystone pin connection system.



#110179 - Tri-Plane ST Unit



2 Connection pins required per unit.  
Pins allow for near-vertical or battered setback construction options.

PRODUCT	DIMENSIONS			WEIGHT/ UNIT (LBS)	PRODUCT #
	Height	Width	Depth		
Tri-Plane ST	8" 203.2mm	18" 457.2mm	12" 304.8mm	70	110179
Pins	½" x 5¼" Fiberglass Connection Pins				

## FEATURES & BENEFITS

### Maximum Versatility and Performance

- The Compac III design results in decreased unit weight; effectively reducing shipping costs while maintaining structural integrity.
- Allows for various positive pinned connections with reinforcement to build engineered walls in excess of 60 feet tall.
- Vertical core alignment increases vertical drainage through face units.
- Unique split creates ease of alignment:
  - Requires less field adjustments during construction.

### Ease of Installation

- Unit shape allows for tight radius curves and vertical core alignment.
- Tail design makes for easier handling in the field.
- Triangular shaped pin receiving hole allows for installer-friendly construction adjustments.
- Near vertical or battered setback options.

### Aesthetics

- Angular tri-plane face creates visual interest with dimension and shadows.
- Available colors complement any landscape.
- Natural stone texture appearance.
- Capping and corner units available.

**Note:** Unit color, dimensions, weight, and availability varies by manufacturer.



RETAINING  
WALLS



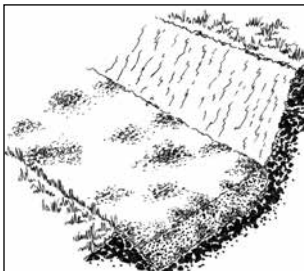
COLUMNS



STEPS

## STRUCTURAL RETAINING WALL | KEYSTONE COMPAC® III TRI-PLANE ST

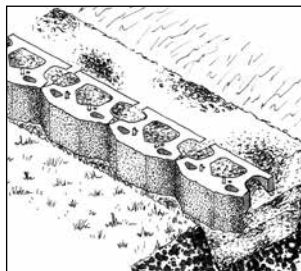
### INSTALLATION INSTRUCTIONS



STEP 1

#### Prepare the Base Leveling Pad.

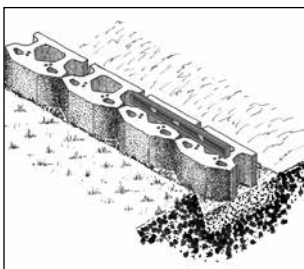
Excavate the base trench to the designed width and depth. Start the leveling pad at the lowest elevation along the wall alignment. Step up in 8" increments with the base as required at elevation change in the foundation. Level the prepared base with maximum lifts of 6" of well-compacted granular fill (road base material). Compact to 95% Standard Proctor or greater. Do not use PEA GRAVEL or SAND for leveling pad.



STEP 4

#### Install Fill & Compaction.

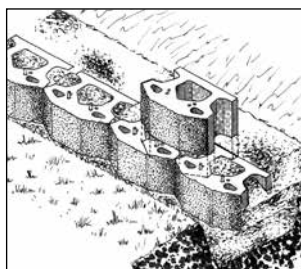
Provide 1/2"-3/4" clean crushed stone drainage fill behind the units to a minimum distance behind the tail of one foot. Fill all open spaces between units and open cavities/cores with the same drainage material. Proceed to place backfill in maximum 6-8" layers and compact to 95% Standard Proctor with the appropriate compaction equipment.



STEP 2

#### Install the Base Course.

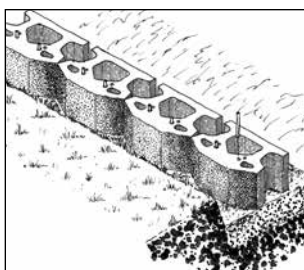
Place the first course of Keystone units end to end (with face of wall corners touching) on the prepared base. The receiving pin holes should face upward, as shown. Make sure each unit is level. Leveling the first course is critical for accurate and acceptable results. Keystone recommends minimum embedment depth for below grade placement of Keystone units on a ratio of 1" below grade for each 8" of wall height above grade or one unit, whichever is greater.



STEP 5

#### Install Additional Courses.

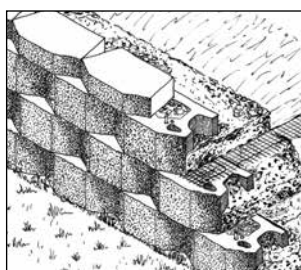
Place the next course of Keystone units over the fiberglass pins, fitting the pins into the triangular shaped receiving hole in the units above. Push the units toward the face of the wall until they make full contact with the pins. Continue backfilling and building to desired top elevation. Consult the Compac Construction Manual for additional construction details and the use of geogrid reinforcement.



STEP 3

#### Insert the Fiberglass Pins.

Place the straight fiberglass pins into the holes of each Keystone unit as required. Once placed, the pins create an automatic setback for the additional courses. Place pins in the front holes for near vertical (1/8") setback and the rear holes for 1 1/8" setback per course.



STEP 6

#### Capping the Wall.

Complete your wall with the appropriate Keystone capping units. With units dry and clean, use exterior construction grade adhesive on the top surface of the last course before applying cap units. Backfill and compact to finish grade.

**Note:** For drain tile installation requirements, consult an engineer or visit [www.keystonehardscapes.com](http://www.keystonehardscapes.com) for more information. Colors are shown as accurately as possible in brochures and samples, but due to the nature of the product, regional color differences and variables in print reproduction, colors may not match exactly.

Complete installation and specification details are available by contacting your Keystone Hardscapes Sales Representative.



[www.keystonehardscapes.com](http://www.keystonehardscapes.com)

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