A Keystone® Retaining Wall is not complete without the “capping touch”. The two primary wall units, the Standard and Compac Units, both have open voids, making them an unsuitable finish to the top of the wall. In some situations this may be acceptable. In most cases, a more attractive finish is required. Once again Keystone® provides a simple solution, the family of Keystone® Cap Units; the Mini Cap (4”H)(100mm) and Compac Cap (8”H)(200mm). Each unit is available in various combinations of facial finish and degree of angled sides*. The following information will clearly explain the uses of these units in a variety of finishing techniques.

* Check with local manufacturers for product availability.

NOTE: Capping is not required to guarantee structural stability. It’s only an aesthetic adornment.

Like other Keystone® units, all cap units can be used interchangeably. Depending on the wall contour, some cap units will work more effectively than others (i.e. angled side units for concave curves). In any given installation, if binding occurs between units, the units can be modified to fit using a concrete saw, chisel or other device.

Installation of the cap units is a simple one step operation. Keystone® cap units have a solid finished top. The bottoms of these units retain the kidney shaped receiving holes used for pin/unit interlock (Figure 1.1). With the fiberglass pins of the last Keystone® course in place, lower the cap unit over the protruding pins. Once in position, slide the unit forward to align and lock in position.

The following illustrations demonstrate the most common uses of the Keystone® cap units.
CONVEX CURVES WITH ANGLED SIDED CAPS

MINIMAL SPACE BETWEEN UNITS

CONVEX CURVES WITH STRAIGHT SIDED CAPS

NO SPACE BETWEEN UNITS. UNITS MUST BE CUT TO FIT.

CONCAVE CURVES WITH ANGLED SIDED CAPS

WIDE SPACE BETWEEN UNITS

CONCAVE CURVES WITH STRAIGHT SIDED CAPS

MINIMAL SPACE BETWEEN UNITS

STRAIGHT WALL WITH ANGLED SIDED CAPS

15° ANGLED SIDES

SPACE BETWEEN UNITS

The information contained herein has been compiled by Keystone Retaining Wall Systems, Inc. and to the best of our knowledge, accurately represents the Keystone product use in the applications which are illustrated. Final determination of the suitability for the use contemplated and the manner of use are the sole responsibility of the user. Structural design and analysis shall be performed by a qualified engineer.

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TOP OF WALL FINISHES

WALL CAP USING KEYSTONE UNITS

STRAIGHT WALL WITH STRAIGHT SIDED CAPS

STRAIGHT WALL WITH ANGLED SIDED CAPS

STRAIGHT WALL WITH MINI/COMPAC CAP STEP

STRAIGHT WALL WITH FLAT FACE STRAIGHT SIDED CAPS

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The size of each Keystone® unit makes this system very adaptable to grade changes. A Keystone® wall can be constructed with a top of wall grade in increments between 0° and a 42° slope. These grade changes may occur along the length of a wall or at its points of origin. As cap units step up and down grades, an additional installation procedure is required to firmly fix some cap units in position. So that no unit voids in a Keystone® unit (Standard or Compac) are exposed, the last unit in each course should be a Compac cap. Each additional cap unit is offset 9” (23cm) to maintain the running bond wall pattern. As shown in the following illustration, these cap units will connect with only one fiberglass pin since the adjoining cap units have no pin holes. The non-pinned side should be attached using a bonding material. Due to the flexibility or non-rigid qualities of the Keystone® system, the bonding material must be able to tolerate some movement. KeyStone® KapSeal™ adhesive is designed for this use with a special formulation to withstand temperature and moisture extremes. If this material is unavailable, other flexible epoxy based adhesives designed to bond masonry to masonry may be used. Refer to manufacturers instructions for complete details. Apply this material to an area where the two units make contact.

The following illustrations demonstrate typical methods used for adjusting to grade changes and the corresponding use of cap units.
TOP OF WALL FINISHES

WALL CAP USING KEYSTONE UNITS

- **42° SLOPE WITH COMPAC CAPS**
  - COMPAC CAP
  - COMPAC OR STANDARD UNITS
  - NO PIN CONNECTION
  - THIS SIDE. USE BONDING MATERIAL.

- **SLOPING GRADE AROUND END OF WALL**
  - BLOCK UNITS AS NECESSARY
  - SLOPING GRADE AROUND END OF WALL

- **RANDOM STEPS WITH MINI & COMPAC STRAIGHT SIDED CAP**
  - COMPAC OR STANDARD WALL UNITS
  - COMPAC CAP
  - MINI CAP

- **42° SLOPE WITH MODIFIED CAP UNITS**
  - COMPAC CAP FLAT
  - FACE STRAIGHT SIDE.
  - FIELD CUT CORNER.
  - COMPAC CAP FLAT
  - FACE STRAIGHT SIDE.
  - FIELD CUT TO ANGLE.
  - NO PIN CONNECTION
  - THIS UNIT. USE BONDING MATERIAL.

- **SQUARED END OF WALL WITH SOIL WRAP AROUND FACE**
  - MINI OR COMPAC CAP

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42° SLOPE WITH COMPAC UNITS

STEP UNITS INTO GRADE

SLOPING GRADE AROUND END OF WALL

MINI OR COMPAC CAP

CUT CAP UNITS TO FIT

COMPAC OR STANDARD UNIT

TERRACING WALL INTO GRADE

RADIUS UNITS INTO GRADE. STEP UP GRADE AS REQUIRED. HEIGHTS AND LENGTHS OF TERRACES MAY VARY.

MINI OR COMPAC CAP
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