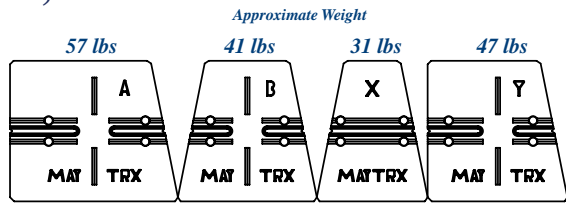
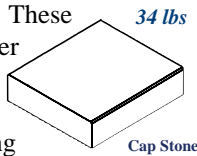


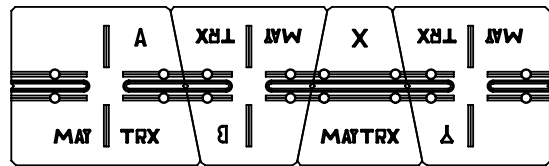


INTRODUCTION TO THE MAYTRx MULTI-USE, MULTI-STONE SYSTEM

The MaytRx multi-use, multi-stone system has been developed to give a natural stone appearance to a manufactured system. The five stones of the MaytRx system are each a different size. These five different sizes can be used in a freestyle manner to design unlimited face appearances to landscape retaining walls, stone fences, and barrier walls, stone columns, steps and engineered Segmental Retaining Walls (SRWs) and many other projects.



4 Basic MaytRx stones shown in open alignment.
Perfect for retaining walls.



4 Basic MaytRx stones shown in closed alignment.
Perfect for freestanding walls.

There are five major segments to this section of the brochure. These five segments give installation information for (A) Landscape Retaining Walls (walls of 3' height or less); (B) Freestanding Stone Fence and Barrier Walls (straight up); (C) Steps; (D) Special Projects; and Segmental Retaining Walls (Chapter 6 on other side of brochure). The MaytRx stone system is nearly limitless in its versatility because each stone has two faces and is reversible when used in stone projects. The installation information that follows is a guide to explain many of the multi-uses of the MaytRx system but is not intended to limit the installers own ideas. All projects can be built with split face MaytRx or "Antique MaytRx", a tumbled version that gives a natural stone appearance. Note: Production constraints in some areas require that all five stones be nominalized to 98% of the dimensions given in this brochure. Installation directions are not affected by this nominalization.

SECTION A. MAYTRx LANDSCAPE RETAINING WALLS AND TIERED RETAINING WALLS

Landscape (For Walls Over 3' Tall – See Chapter 6 on Reverse Side)



MaytRx landscape retaining walls have a 7.1 degree batter. When constructing a landscape retaining wall, excavate a trench approximately 16 inches wide. Follow this table for trench depth and thickness of the compactible rock or concrete foundation. For landscape retaining walls, MaytRx advises a maximum height of 3 feet from the footing to the top of the wall. Follow the directions given below.

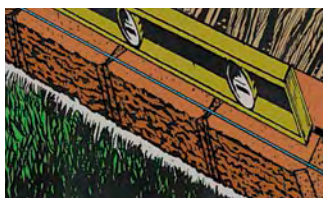
<u>Wall Height</u>	<u>Minimum Trench Depth</u>	<u>Minimum Compactible Rock</u>
3'	6"	3"
2'	4"	2"
1'	2"	1"

Compact & Level

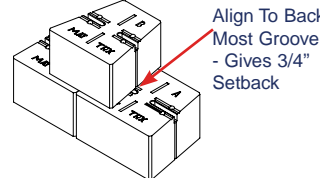
Dig to virgin soil or compact the soil below your footing to high density. Next, compact and level your footing material. If you are building on unlevel areas you can prepare step ups or step downs in increments of the 6" thickness of the MaytRx stone. Also, it is critical that your wall project be designed to flow surface water, rain or lawn watering, away from the retaining wall. Do not allow water to flow to the retaining wall.



The First Course

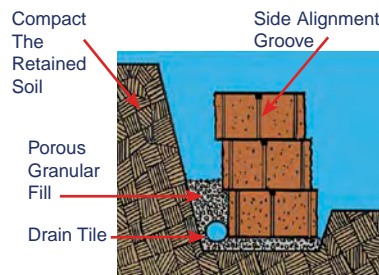


Place the first layer of MaytRx stones smooth side down on the prepared foundation. Use a carpenter's level in all directions and use a string line to verify straightness. Serpentine walls may be built too. Be certain the base course is level and stones lay flat. For micro leveling and to help the stones lay flat, keep a bag of sand handy and use small handfuls to level and stabilize the first layer.

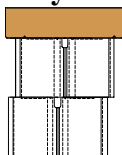


Setback Alignment

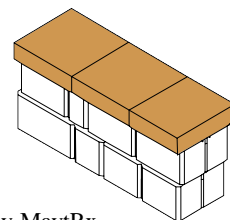
Set the side alignment groove directly above the backmost 3/4" set back groove of the stones in the next lower layer. This visual alignment is all that is required for each successive layer of stones. Mat material may be used to filter soil fines that may migrate into your clean granular fill. A flexible drain tube is a competent way to assure drainage from behind your wall. As successive layers are set, stagger the face seams of the stones for interlocking wall strength. Be certain to compact all rock and soil backfill as each layer is installed to avoid saturation and wall damage.



MaytRx Cap Layer



The MaytRx Cap stone (3" thick) has two faces. The MaytRx Cap stone gives a face appearance on both sides of freestanding stone fence and barrier walls. The MaytRx cap also gives a finished look to the back side of a retaining wall that extends above grade. The MaytRx rectangular Cap stone is 11" front to back while all other stones are 10" front to back. The extra inch allows for a one inch overhang of the cap row of retaining wall or the Cap stone can be centered as shown.



Using paver grade adhesive to glue capstones to the layer below the cap layer will prevent movement of the top of any MaytRx project when the wall is bumped, walked on or leaned against. Some adhesives require the stones to be clean and dry before gluing.

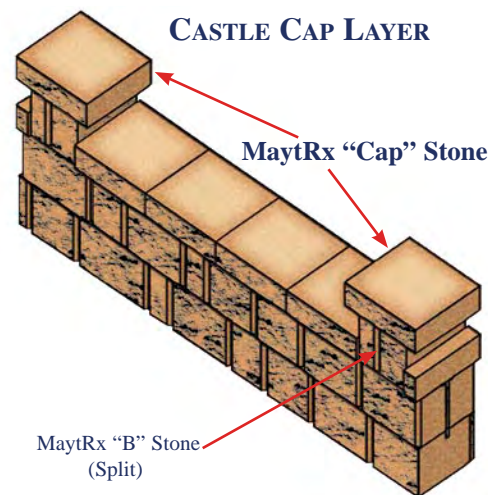
Cap Layer With Castles (MaytRx Exclusive)

A MaytRx Castle Wall is an easy way to put an impressive cap layer on a retaining wall or free standing wall. Each "Castle" can be made by splitting a MaytRx A stone and splitting a MaytRx Y stone. The two rectangular parts can be set to make a 10" x 11" x 6" Castle that has a textured face on all four sides.

Preplanning is required. First, determine how many castles will be needed by dividing the wall length by the distance between castles usually about 10 feet. (For example: a 150 foot long wall with a castle every 10 feet would have [150/10] 15 castles.)

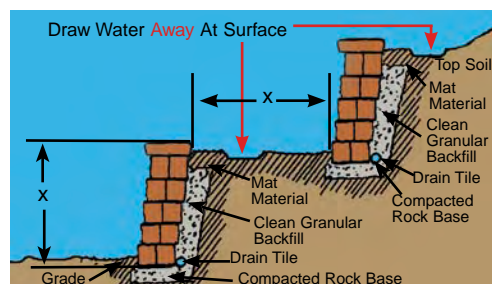
The A stone and Y stone can be used to make a castle. When the A stone is split along the center split groove, one piece will be rectangular with front and back faces 6" long. The similar piece from splitting a Y stone will have front and back faces 5" long.

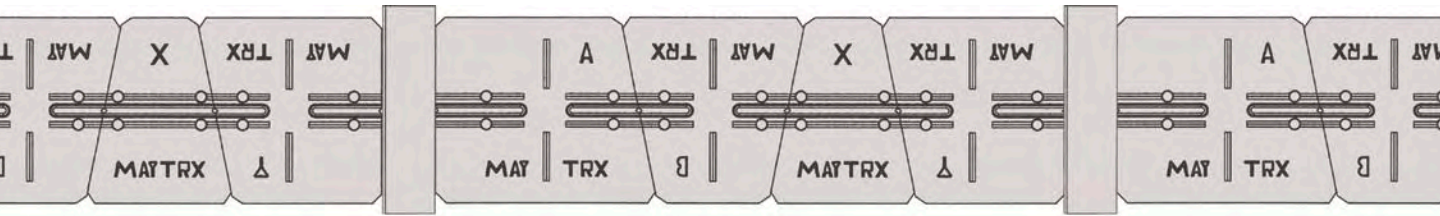
Setting the two smooth sides together will make a castle that is 10" deep and 11" wide. Glue these stones with paver grade adhesive to the stones they sit on. Then glue a Cap stone on top of these two (Castle) stones with a half inch overhang on all four sides placing the textured faces of the Cap stone to the front and back. The other parts of the A and Y stones can be used in the body of your retaining wall or freestanding wall project. This castle will have a 1/2 inch overhang on all four sides. Another way to make the castle is to split a single B stone and put the smooth sides together. When a split B stone is used to make the castle, there is a 2" overhang on the wall sides of the castle as above.



Tiered Retaining Walls (The X Factor)

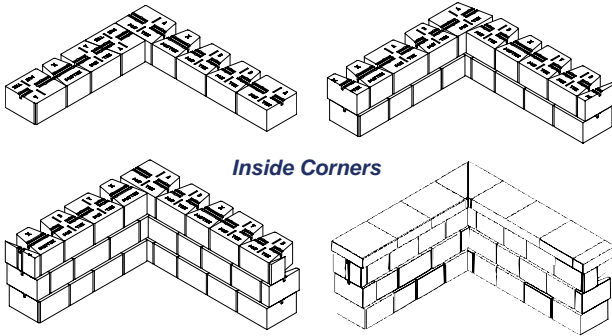
The X Factor. It is important that the upper wall does not become a load on the lower wall. Set the upper wall's footing back a minimum of (x feet) from the top of the next lower wall. The distance should be equal to or greater than the height (x feet) of the lower wall. If the soil above your wall slopes upward or has a surcharge applied, you may be overloading the retaining wall and the X Factor may not apply. These type of tiered walls will require additional set back or geogrid material that should be designed by a retaining wall engineer. Tiered wall arrangements require proper loading of the retaining walls to avoid failure.



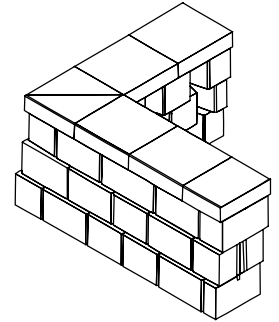


Construction of a Square Corner with MaytRx for a Landscape Retaining Wall (with Set Back) —

For structural stability and strength it is advised that corners of retaining walls be built and glued in place with paver grade adhesive. Start the construction of landscape retaining walls that have a square corner at the corner. This allows the setback in both directions to be initiated at the corner and construction can proceed in both directions with the proper $\frac{3}{4}$ " set back per layer.



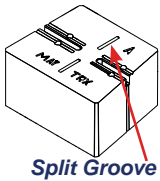
Inside Corners



Outside Corner

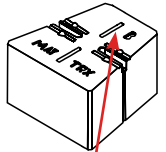
Three MaytRx stones "A", "B" and "Y" can be split along a front to back center split groove that is imprinted on the top of each stone.

The "half" stones that are made by splitting any of these MaytRx stones can be used to build an outside square corner. Different MaytRx stones may be used in each layer to give the corner a random stone appearance or the same stone may be used to build each layer's corner to give a repeated pattern.



Split Groove

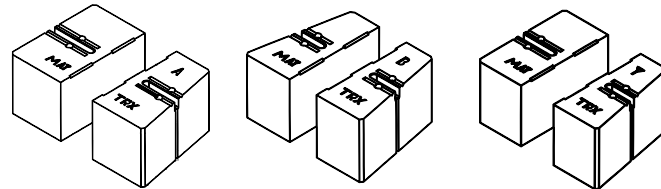
Gluing the corner stones and a few adjacent stones with paver grade adhesive will make the square corner.



Split Groove

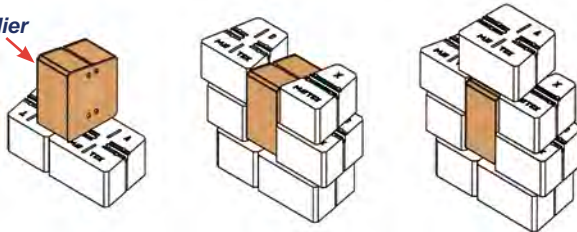
Splitting MaytRx A, B, & Y Stones —

Three of the MaytRx wall stones (A, B and Y) have a front to back split groove centered on the largest face. Splitting these three stones into half stones gives 6 new sizes of stones to use in building MaytRx landscape retaining walls.



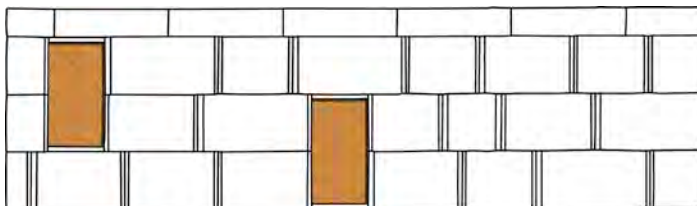
MaytRx "A" Stone Vertical Installation (Landscape Retaining Walls Only) —

Soldier



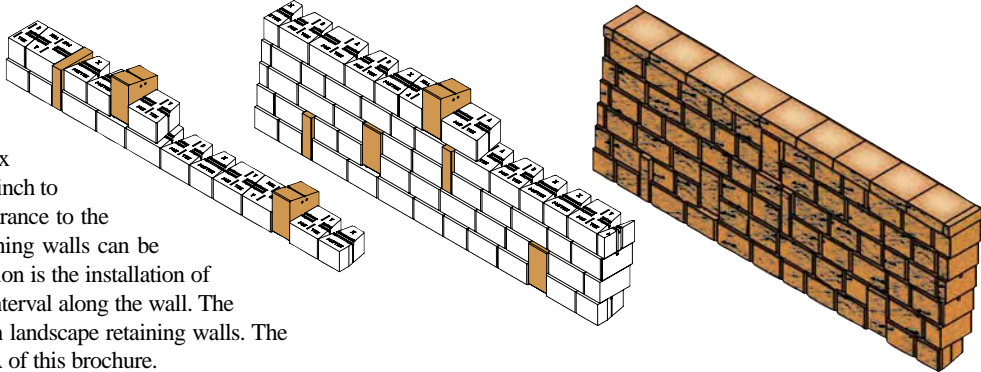
Two of the five MaytRx stones can be used vertically in certain projects, the MaytRx "A" stone and the MaytRx Cap stone. The MaytRx "A" stone can be used vertically in landscape retaining walls only (maximum height 3'). The MaytRx "A" stone is set with the square side down when used vertically. This gives a solid face on the front of the retaining wall, a small open area on the back of the retaining wall will be filled with backfill rock. Use another "A" stone or a "Y" stone above the vertical stone to span across the top of the vertical stone to give a stable layer above the vertical stone.

A finished landscape retaining wall using the MaytRx "A" Stone as a vertical could look like this.



Also, the MaytRx Cap stone can be installed as a vertical stone in landscape retaining walls (see below). The MaytRx Cap stone can be used vertically in stone fences, barrier walls and engineered SRW's. The rectangular shape and specific dimensions allow the Cap stone to be used in any of these projects. Landscape retaining walls can have the MaytRx "A" and the MaytRx Cap stone as vertical stones in the same wall (as shown).

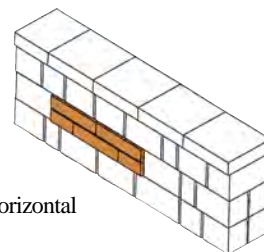
When the MaytRx Cap stone is used in a landscape retaining wall its one inch of additional depth can extend behind the retaining wall to keep the face of the retaining wall flush or the MaytRx Cap stone can be set forward ½ inch to 1 inch to provide a three dimensional (3-D) appearance to the MaytRx retaining wall. Landscape retaining walls can be built with unique modifications. One option is the installation of a “castle” in the cap layer at a constant interval along the wall. The Castle idea can be used as a cap layer on landscape retaining walls. The Castle cap layer is discussed in Section A of this brochure.



The use of the multiple stone shapes and sizes of the MaytRx system give the flexibility to build unlimited wall patterns while using an equal number of the A, B, X and Y stones in the overall project.

Horizontal Cap Stone Installation in Wall Projects

When building retaining walls and freestanding stone fence and barrier walls, the Cap stone can be installed horizontally to develop a unique appearance to wall projects. These uses of the cap stone can give the 3-D effect.

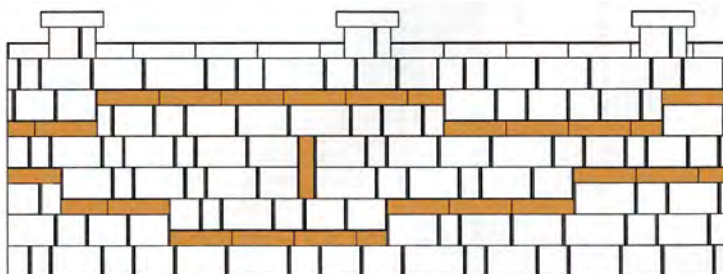
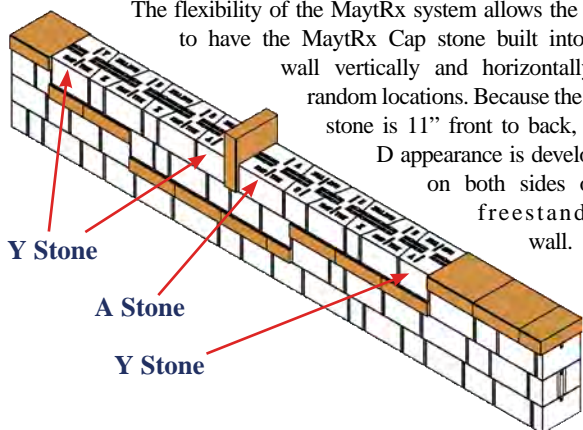


The eleven inch depth of the Cap stone gives the option of the 3-D effect discussed in the section on vertical installation. Horizontal placement of the Cap stone can be flush with the face of the wall or slightly extended forward for the 3-D effect.

SECTION B. CONSTRUCTION OF FREESTANDING AND BARRIER WALLS (No Batter)

Freestanding, straight-up, stone fence and barrier walls can be built with a solid face on both sides of the fence or wall. These freestanding projects can be built with MaytRx split face or Antique MaytRx. Building freestanding fences and walls with the MaytRx system can be freestyle, no repeated pattern is required or suggested. Simply use an equal number of the A, B, X and Y stones in the overall project.

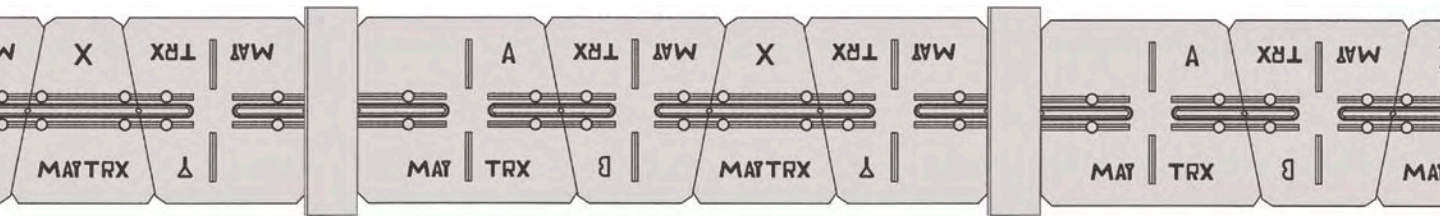
The flexibility of the MaytRx system allows the wall to have the MaytRx Cap stone built into the wall vertically and horizontally at random locations. Because the Cap stone is 11” front to back, a 3-D appearance is developed on both sides of a freestanding wall.



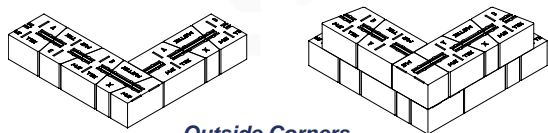
Unlike retaining walls that have only one face, freestanding projects have faces on both sides. This requires specific use of the “A” and “Y” stones when setting vertical or horizontal capstones as shown in the drawings. This will give a solid wall appearance on both sides of the stone fence or barrier wall.

Footings For Freestanding Walls

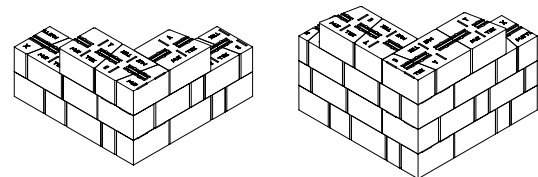
Freestanding projects can be built on a compacted aggregate footing or a poured concrete footing. It is imperative that the freestanding project be built plumb. The plumbness of any freestanding project should be checked as each layer is set. The drawings show an example of a freestanding project with freestyle placement of the MaytRx stones. Because the MaytRx “A”, “B”, “X”, and “Y” stones are manufactured and sold in sets of four, any project will need to incorporate an equal number of each of these four MaytRx stones to use all stones purchased. The MaytRx Cap stone is an exception. The MaytRx Cap stone is manufactured and sold separately and therefore any MaytRx project may use as many or as few MaytRx capstones as the installer desires without concern for any ratio of usage.



Corner Construction for Freestanding Walls (Straight Up)

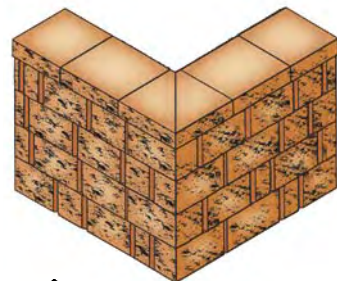


Outside Corners



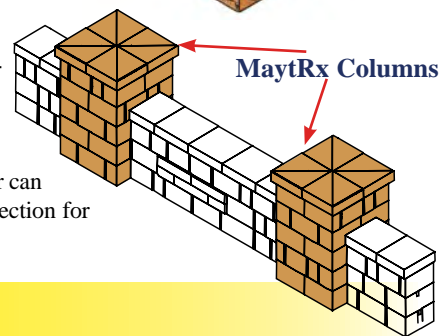
MaytRx corners can be built as free standing walls (straight up) that have solid stone faces on both sides. A mitered MaytRx Cap stone will give a MaytRx Corner a finished appearance on both sides of the corner. Glue all capstones in place for a solid top of the wall.

The freestyle use of the five MaytRx stones provides a system that can allow installers to build projects and never repeat the same stone pattern.



Caps (Also See MaytRx Cap Layer & Cap Layer with Castles - Section A)

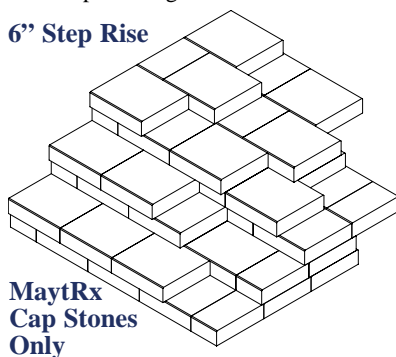
Freestanding projects can be capped with the MaytRx Cap stone. Because the Cap stone is one inch deeper than the other four stones, the cap layer, when centered, will have a 1/2 inch overhang on both sides of the wall. Freestanding MaytRx fence may be built between MaytRx 20" square columns with columns spaced at regular intervals and at corners. The cap layer can have other special design consideration such as the MaytRx castle wall. (See "Special Projects" section for column and stone shelf.)



SECTION C. CONSTRUCTION OF MAYTRX STEPS

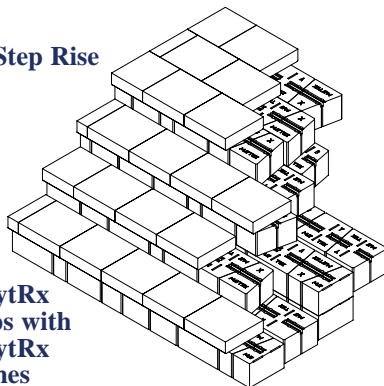
MaytRx steps may be built using only MaytRx stones or MaytRx stones and Pyzique stones. There are many options that offer different step riser height and appearance. Shown here are three different construction options that can be built. The rise of each tread is given with each step drawing.

6" Step Rise



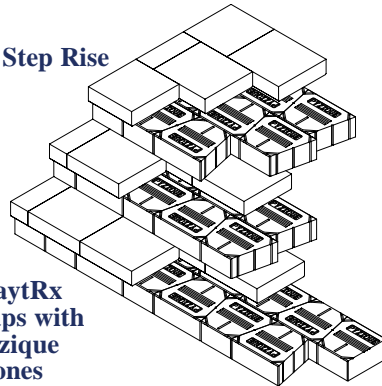
**MaytRx
Cap Stones
Only**

6" Step Rise



**MaytRx
Caps with
MaytRx
Stones**

7" Step Rise



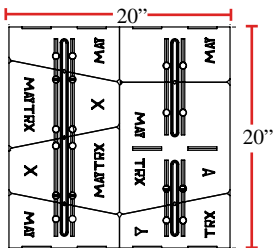
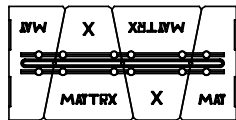
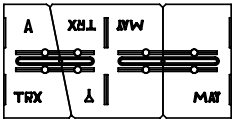
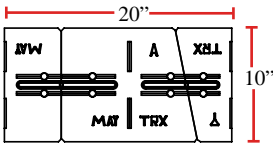
**MaytRx
Caps with
Pyzique
Stones**

Steps can be built as an integral part of a retaining wall. Or steps may be built along the side and between retaining walls.

The use of paver grade adhesive to secure the layers of stones in each step is advised. Glue all stones with paver grade adhesive using two to four silver dollar size dollops of glue to secure stones together. Overlapping layers of capstones in step construction is important for long term strength and stability of MaytRx steps. Stones may be glued on the sides for additional strength.

It is important that steps do not settle over the years. To prevent settling of MaytRx steps, dig out to virgin soil or compact the soil below the steps to a high density; then fill the areas below and behind the bottom layers of MaytRx capstones with compactible, angular stone usually 3/8" minus. (3/8" minus is a mix of material that includes 3/8" chips and small material down to a powder consistency. This type of aggregate mix can be compacted to a high density.) Compact this material in lifts (thicknesses) of 4" or less. Build multiple lifts until the desired thickness of compacted rock is in place. Set MaytRx or Pyzique Stone on the level and compacted rock to build steps as shown.

SECTION D. SPECIAL PROJECTS

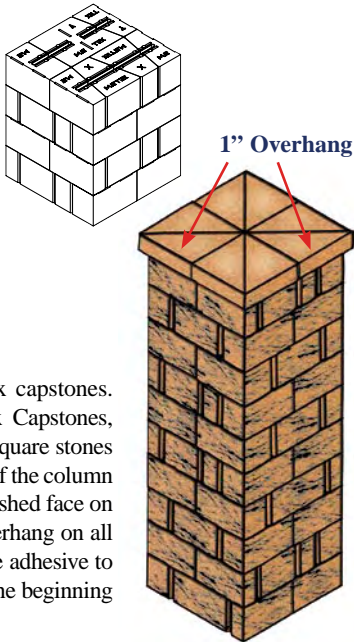


MaytRx Column Construction

Massive 20 inch square columns and post can be built with MaytRx stones. Each 20 inch square layer of a MaytRx column is assembled using full and "half" MaytRx stones. These 20 inch square layers are the combination of two 20 inch by 10 inch stone groupings.

Any combination of two of these three 10 inch by 20 inch stone groupings can be used to make each layer of a MaytRx column or post. Varying the groupings in each layer will give the column or post a random stone appearance. Layers may be repeated to have a consistent pattern to each side of the column or post.

A cap for the MaytRx column can be made from four MaytRx capstones. Cutting is required. First, cut one inch off each of the MaytRx Capstones, making each stone an 11 inch square. Then cut each of these 11" square stones diagonally. The eight triangular capstones can be placed on the top of the column or post with the textured faces of each stone facing out, giving a finished face on all 4 sides of the column or post. The cap will have a one inch overhang on all four sides of the column or post. Glue all 8 stones with paver grade adhesive to the stones below the cap. Larger columns can be built as shown at the beginning of the column to the right.

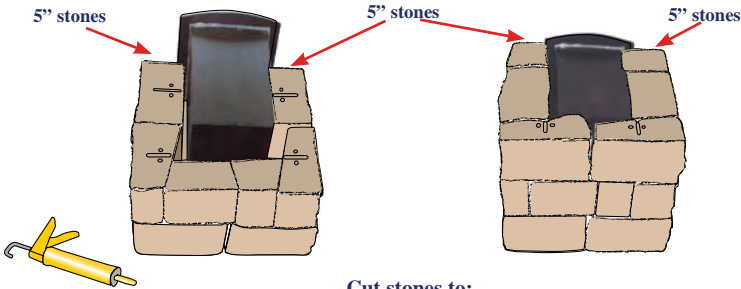


MaytRx Mailbox Column Construction

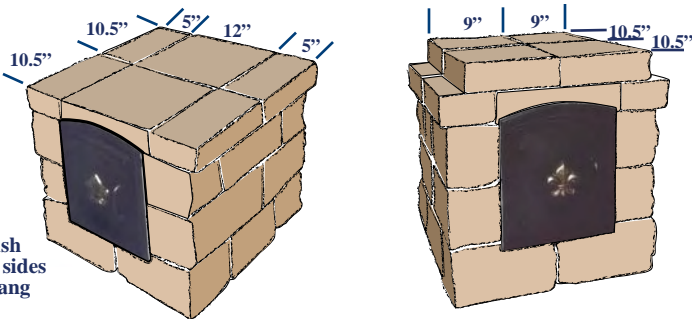
Mailbox columns are installed throughout the United States. Regulations regarding mailbox installation must be understood prior to building a MaytRx Mailbox column. The MaytRx Mailbox is constructed of 22 gauge steel that is electro-galvanized with a cast aluminum faceplate that is powder coated.

Construction of a MaytRx Mailbox column is started by building a MaytRx column as shown above. Consideration to the setting of the footing's depth is necessary to allow the mailbox to be located at the desired height knowing that the MaytRx stones are nominally 6 inches thick.

Layers require modified MaytRx stones.



Cut stones to:



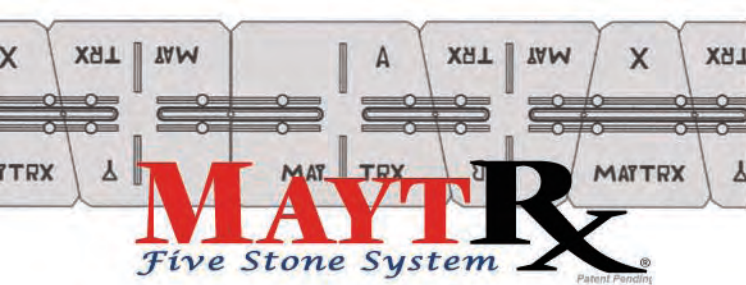
Front flush rear and sides 1" overhang

At the designated level the MaytRx mailbox is set on the column's stones and centered. Splitting and cutting stones as shown in these drawings will continue the external appearance of the column. *Note: these drawings represent one way to build a MaytRx mailbox column. Other layouts are equally acceptable to continue the external appearance of the column.*

An approximate 3/4 inch gap between the modified 6 inch MaytRx stones and the MaytRx Mailbox will allow the MaytRx capstones to span across the mailbox when setting the layers above the mailbox. Use paver grade adhesive to secure the modified MaytRx stones and MaytRx Cap stones that are set around and above the mailbox.

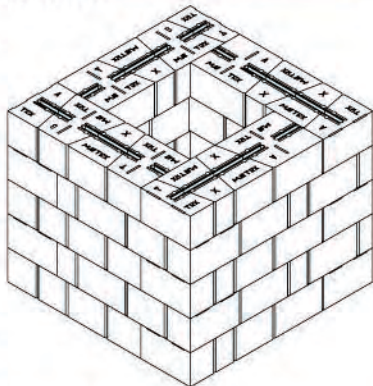
The dimensions of the MaytRx Mailbox are:

	BOX	FACEPLATE
Width	8 1/2 inch	11 inch
Height	11 1/2 inch	14 inch
Depth	15 inch	1 3/4 inch thick



Larger MaytRx Columns

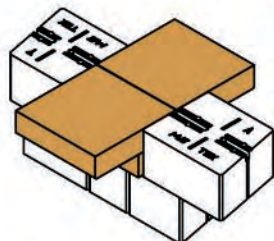
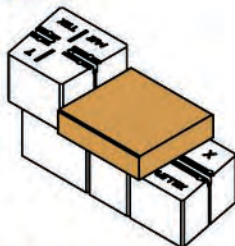
Columns that are larger than the standard 20 inch by 20 inch MaytRx column can be built as shown by this 36 inch by 36 inch column. Cutting of some MaytRx stones may be required to develop a perfect fit. Each layer's construction should start at the four corners of these larger columns by using a split A, B or Y part and building away from the corner. To complete each layer, full MaytRx or cut MaytRx stones are then set between the corner stones to finish each side of each layer. Paver grade adhesive is advised in the construction of all columns. Columns may be square as shown or rectangular as required by the job.



Making a MaytRx Stone Shelf

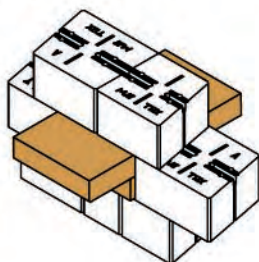
(For Potted Plants and Yard Sculptures)

The MaytRx Cap stone is 3" thick while the other four MaytRx stones A, B, X and Y are 6" thick. Three MaytRx Cap stones are needed to build a MaytRx shelf in a freestanding wall. The shelf will extend 6" beyond the face of the freestanding wall on both sides.



These drawings show the placement of the MaytRx Cap stones and MaytRx A and MaytRx Y stones alongside the Stone Shelf.

MaytRx A and/or Y stones will need to be used on each side of the MaytRx Cap stones to avoid an open gap in the wall.

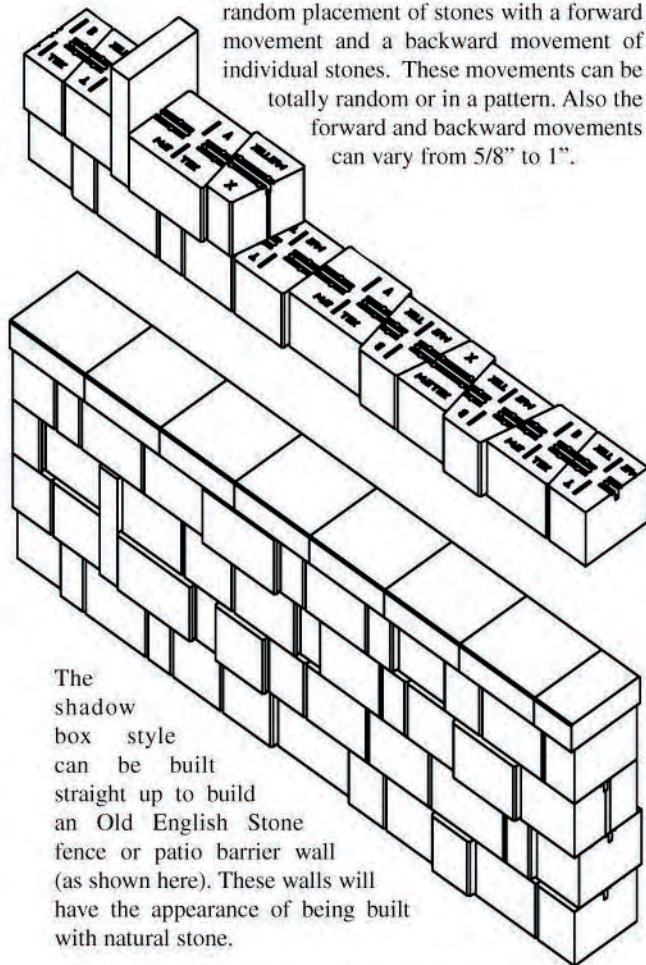


Use paver grade adhesive to glue the two upper MaytRx Cap

stones to the lower MaytRx Cap stone. Any MaytRx 6" stones may be used in the layer above the Stone Shelf.

How to Build Shadow Box Walls (An Old English Stone Fence)

Antique MaytRx can be used to build "Shadow Box" retaining walls and freestanding walls that have a three dimensional appearance of an Old English stone fence. The diagram below shows layers of MaytRx with random placement of stones with a forward movement and a backward movement of individual stones. These movements can be totally random or in a pattern. Also the forward and backward movements can vary from 5/8" to 1".



The shadow box style can be built straight up to build an Old English Stone fence or patio barrier wall (as shown here). These walls will have the appearance of being built with natural stone.

Also, a MaytRx shadow box retaining wall can be built with 3/4 inch setback of each layer from the layer below while setting individual stones forward or backward 5/8" to 1" from the normal set back. Failure to follow this set back requirement on retaining walls only a few layers tall can cause the wall to lean forward after time.

MAYTRx
Five Stone System

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