



MANORSTONE® XL



ManorStone® XL retaining wall blocks offer versatility and ease-of-use which makes them the ideal landscaping product for a wide variety of projects.

The XL-Extra Length (18") creates a more modern linear look, particularly in the Flat Face option.

Available in radius and flat-face with tapered sides. Mix and match units to create visual interest, capping your wall, or creating staircases.

ManorStone XL is perfect for retaining walls up to 3.5 feet.

PRODUCT DATA

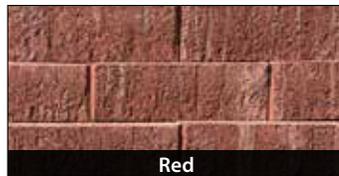
	Coverage	Units / Pallet	Coverage / Pallet	Weight / Piece	Weight / Pallet
Tri-Plane Face Tapered-Sides	1.33 pcs / ft ² (13.9 pcs / m ²)	40	30 ft ² (2.79 m ²)	66 lbs. (29.94 kg)	2,690 lbs (1,220 kg)
Straight Face Tapered-Sides	1.33 pcs / ft ² (13.9 pcs / m ²)	40	30 ft ² (2.79 m ²)	66 lbs. (29.94 kg)	2,690 lbs (1,220 kg)
Universal Tapered Cap Unit	0.8 pcs/Ln ft	60	52.5 Ln ft (15.8 Ln m)	32 lb. (14.5 kg)	1,970 lbs (893.5 kg)

All **Weight per Pallet** noted above includes a 50 lb pallet weight. Maximum wall height: 3' 6". Minimum radius: 2' 8".

AVAILABLE COLORS



Natural Gray



Red



Red Black



Tan



Tan Black

Tri-Plane Face
6" x 18" x 12"
(15.24 cm x 45.72 cm x 30.48 cm)



Straight Face
6" x 18" x 12"
(15.24 cm x 45.72 cm x 30.48 cm)



Universal Tapered Cap Unit
3" x 13.75" (front face)
7.25" (back face) x 12"
(7.6 cm x 35 cm [front face]
18.4 cm [back face] x 30.5 cm)



PROJECT ESTIMATION

NOT TO EXCEED 3' 6"		WALL LENGTH (0.66 units per lineal foot)					
WALL HEIGHT	COURSES	10 ft	15 ft	20 ft	25 ft	30 ft	35 ft
1'	2	13	20	27	34	40	47
1'-6"	3	20	30	41	51	60	71
2'	4	26	40	54	68	80	94
2' 6"	5	33	50	67	85	100	118
3' 0"	6	39	60	81	102	120	141
3' 6"	7	46	70	95	119	140	165

Example: It takes 54 blocks to build a wall 20' long and 2' tall.

Blocks needed for 6' diameter circle		
Wall Height	Courses	Blocks
1'	2	25
1'-6"	3	38
2'	4	50
2' 6"	5	63
3'	6	75
3' 6"	7	88

The circle diameter becomes smaller as you add courses due to 1" set-back per course. Cutting may be required as the wall gets higher.

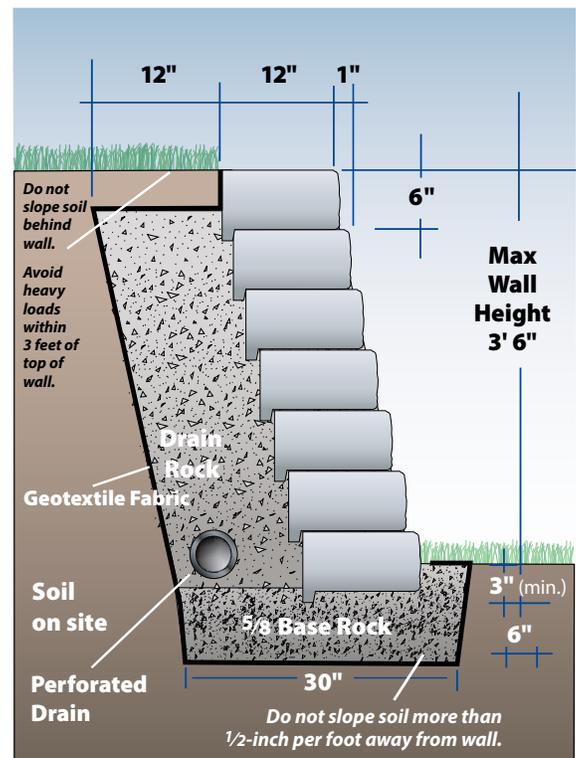
INSTALLATION INSTRUCTIONS

Maximum gravity wall height: 3' 6"

- Excavation:** First mark the area of the wall with chalk or spray paint and then string a line. Dig out a trench that is a minimum of 9" (23 cm) deep plus one inch for every foot of wall height. Allow 12" (31 cm) of space behind the wall for ¾" washed drain rock (this means your trench should be 30" wide). Roots and large rocks must be removed from the trench.
- Base Preparation:** The project requires a perforated drain, cover the back and the bottom of the trench with a geotextile to prevent soil from blocking the drainage system. Measure geotextile fabric with excess length of about 12" (305 mm) at the top of the bank, which will be folded over the completed drainage fill.
- Foundation:** Install a 4" (10 cm) diameter perforated drain in this foundation and connect it to the existing drainage system. Next, prepare a 6" (15 cm) deep foundation with 5/8 minus or ¾ minus crushed rock. Add 1"-2" of 5/8 minus or ¾ minus crushed rock, rake smooth and compact with plate compactor. Base rock should have a certain amount of moisture content. Repeat steps until final 6" base elevation is achieved.
- First Course:** Lay the base course of retaining wall blocks. Using a string line at the back of the units for alignment, place units side by side on the gravel checking for level in both directions. Begin laying block at the lowest point of the wall and/or 90° corner. It is easier to start at a straight section of the wall. Complete the base course before proceeding to the second course. Be aware that the blocks have a ¾" set back. When curves are laid out, space the base course block slightly apart to allow for their set back.

NOTE: Before installing additional courses, it is recommended that the installer front fills and backfills the first course with base rock and compacts to ensure stability of the wall.

- Second & Additional Courses:** Sweep top of underlying course and stack next course in running bond pattern so the middle of the unit is above the joint between adjacent blocks below. To cut blocks for the ends of the wall or in tight curved sections, use a hammer and chisel to score the unit on all sides. Always wear eye protection when splitting stones. If many cuts are needed, a masonry saw may be the better option.
- Backfilling:** After each course is laid, backfill behind the wall with ¾" washed drain rock. This improves drainage and prevents soil from leaching through the wall face.
- Top Course:** Use concrete adhesive to secure the cap course. Apply the adhesive with a caulking gun. Lay the cap down and press firmly. Finish backfilling behind the wall.



ManorStone® is a registered trademark of Mutual Materials Co.