

VERSA-LOK[®]

Installation Guide

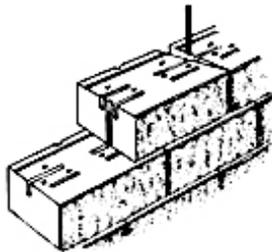
Installation of the Versa-Lok[®] System is quick and easy. Like all systems, it requires that a few simple procedures be followed to ensure a stable and attractive wall upon completion.



Preparation Procedures:

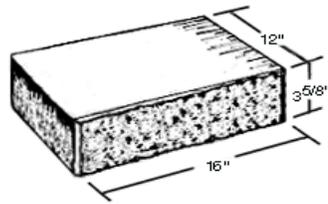
Proper preparation of the base is the most important procedure in the construction of the wall.

Begin by excavating a trench 24" wide by 6" to 18" deep depending on the wall height. Make sure the bottom of the trench is well compacted. Place sand/gravel base material and compact the base is now ready for laying the first course of Versa-Lok[®].



Using a string line at the back of the unit to maintain alignment, place the units side by side on the base and level each in both directions. Corners should be laid first. Place backfill and compact. Clean excess fill from the top of the units and place the second course of Versa-Lok[®]. The Versa-Tuff Pins should be inserted in the holes and extend into the bottom unit. It may be necessary to use a hammer to seat the pin properly. Backfill as you go. A 12" thicker layer of granular fill behind will insure drainage. That's all there is to it. Continue setting units to the height of wall required. The pins will automatically set the succeeding course back at the proper cant into the fill.





Versa-Lok® C Cap



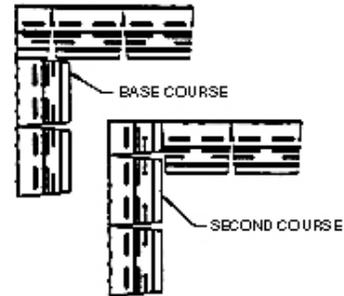
Versa-Tuff Pin

Building Inside & Outside Corners:

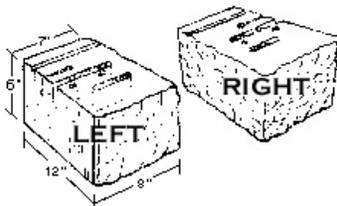
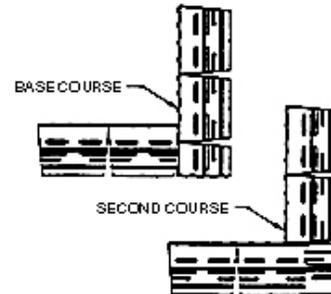
The construction of a corner will depend on if the wall is started at the corner or building toward the corner. If at all possible start the wall at the corner and work out from there.

The construction drawing shows how to install corners in a 3/4 bond arrangement. Because the Versa-Lok® is a solid unit the installer is allowed to make custom size pieces if a half bond is required. The Versa-Lok® units pin from hole to slot, this allows the bond to vary.

OUTSIDE CORNER



INSIDE CORNER

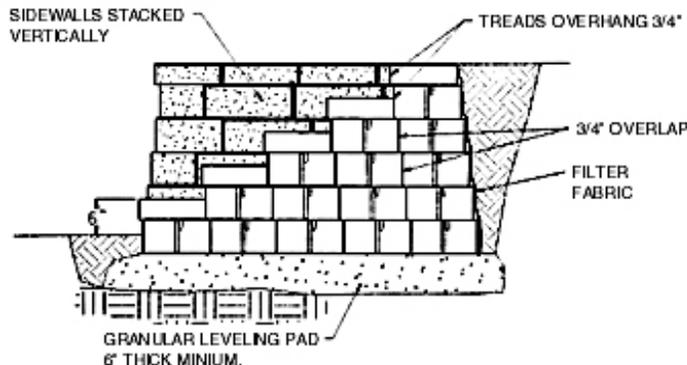


To build an outside corner, you have to start with a 1/2 unit. These can be split with a hammer and chisel or ordered from your supplier. Lay full Versa-Lok® units to either side of this corner

unit. On the second course the 1/2 unit will be laid in the opposite direction, this will establish a stagger bond to the wall. Continue alternating this corner unit as the wall goes up. Please note: the corner unit does not get pinned into the lower course. If a 1/2 bond is required, the units next to the 8" face of the half unit will need to be custom sized on the job site. This can easily be done by cutting them with a masonry saw.

*The inside corner is constructed the same way as the outside corner. The only difference would be the direction the face is laid.

**Stair Riser
Detail 1**
Base Pedestal Method
(Recommended)



Installation Procedures:

*Note: Walls over 4 feet must be designed by a qualified engineer.

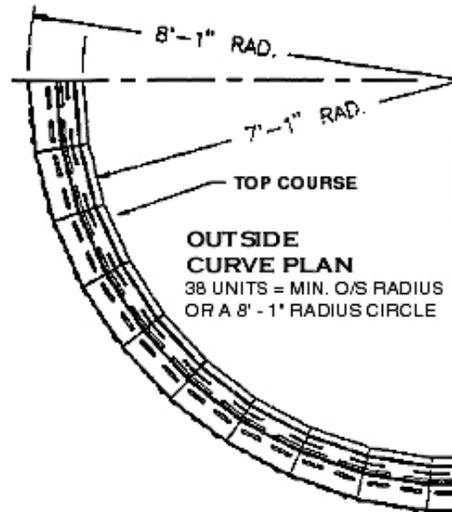
Stair Riser Pedestal:

1. Use the same leveling pad material for the stair pedestal as the retaining wall.
2. Construct the stair risers first, install the caps for treads second and then install sidewalls last.
3. Do not pin the stair units.
4. Construct the base pedestal in four to five increments.
5. Sidewalls will be stacked vertically without pinning.
6. Wrap the pedestal in filler fabric.
7. See Versa-Lok® tech bulletin 2 for construction details.

Curves and Corners:

1. Stake the center of the curve.
2. Excavate for the sand and gravel base.
3. Place first unit on radius.
4. Swing layout line from center.
5. Place second unit adjacent to first.
6. Continue until curve is completed.
7. Stagger subsequent courses.
8. Adjust units for proper fit.
9. Automatic setback is 3/4 in. per course.
10. Continue until desired height is achieved.

| Wall Height | Course | Bottom Course O/S Radius | Minimum O/S Radius For Top |
|-------------|--------|--------------------------|----------------------------|
| 4 Ft. | 8 | 8' - 6 1/4" | 8' - 1" |
| | 7 | 8' - 5 1/4" | 8' - 1" |
| | 6 | 8' - 4 3/4" | 8' - 1" |
| 3 Ft. | 5 | 8' - 4" | 8' - 1" |
| | 4 | 8' - 3 1/4" | 8' - 1" |
| 2 Ft. | 3 | 8' - 2 1/4" | 8' - 1" |
| | 2 | 8' - 1 3/4" | 8' - 1" |
| 1 Ft. | 1 | 8' - 1" | 8' - 1" |

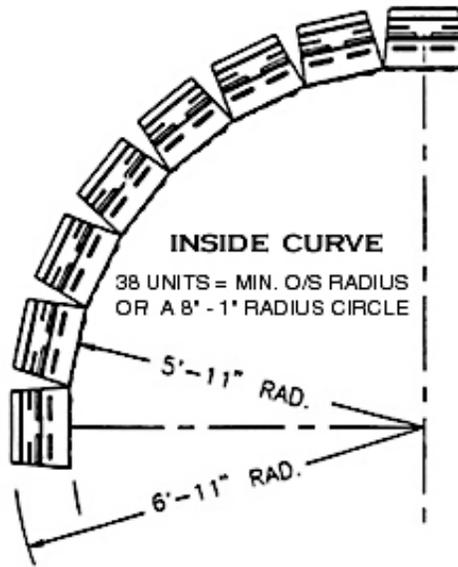


*Note: Minimum radius is achieved at the top course when the bottom course is started at the proper radius from the table.

Example:

Three Foot Wall = 6 Courses
 One Setback = 3/4"
 Five Setbacks = 3 3/4"
 Bottom O/S Radius = 8' - 4 3/4"

| Wall Height | Course | Bottom Course I/S Radius | I/S Radius For Top |
|-------------|--------|--------------------------|--------------------|
| 4 Ft. | 8 | 5' - 5 3/4" | 5' - 11" |
| | 7 | 5' - 6 1/2" | 5' - 11" |
| 3 Ft. | 6 | 5' - 7 1/4" | 5' - 11" |
| | 5 | 5' - 8" | 5' - 11" |
| 2 Ft. | 4 | 5' - 8 3/4" | 5' - 11" |
| | 3 | 5' - 9 1/2" | 5' - 11" |
| 1 Ft. | 2 | 5' - 10 1/4" | 5' - 11" |
| | 1 | 5' - 11" | 5' - 11" |



Example:

Three Foot Wall = 6 Courses
 One Setback = 3/4"
 Five Setbacks = 3 3/4"
 Bottom I/S Radius = 5' - 7 1/4"

| Material Requirements Worksheet: | | | | | |
|---|---------|---|--------------|---|-----------------|
| Number of Versa-Lok® Units: | | | | | |
| Area of Wall | Sq. Ft. | x | 1.5 units/SF | = | Number of Units |
| | Sq. Ft. | x | 1.5 units/SF | = | Units |
| Number of Versa-Lok® Pins: | | | | | |
| Number of Units | | x | 2 pins/unit | = | Number of Pins |
| Units | | x | 2 pins/unit | = | Pins |
| Number of Versa-Lok® C Caps: | | | | | |
| Total Linear Ft. of Wall | LF | x | .75 | = | Number of Caps |
| | LF | x | .75 | = | Caps |
| Versa-Lok® Concrete Adhesive (11 oz. Tube): | | | | | |
| Total Linear Ft. of Wall | LF | ÷ | 14 LF/tube | = | Number of Tubes |
| | LF | ÷ | 14 LF/tube | = | Tubes |

Notes:

- To finish all straight walls use uncut C Caps.
- Additional caps may be needed for special splits and cuts.
- No pins needed for bottom course.
- If water behind wall is allowed to leach through the wall, stains can result.