

INTERLOCK

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INTERLOCK

CONCRETE PRODUCTS INC.

Pisa II[®] & Roman Pisa

Retaining Walls

INSTALLATION GUIDE



CONGRATULATIONS ...

on purchasing one of the finest concrete retaining wall systems available.

Pisa II and Roman Pisa retaining wall systems have been designed to provide easy installation and long lasting beauty for a wide range of different projects, from small decorative garden walls to massive earth retaining structures. Compared to alternative materials and methods, these systems provide superior, longer lasting results with fewer installation and maintenance difficulties. This makes retaining wall systems from Interlock your best choice.

COMPONENTS

Pisa II



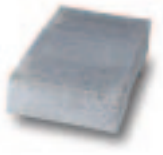
Standard Straight
6"H x 8"W x 12"D



Standard Tapered
6"H x 8"W x 12"D



Corner
6"H x 12"W x 8"D



Revers-A-Cap
3"H x 8"W x 12"D

Roman Pisa



Standard Tapered
6"H x 8"W x 12"D



Half
6"H x 4"W x 12"D



Corner
6"H x 12"W x 8"D



Jumbo
6"H x 12"W x 9"D



Flat Top
6"H x 8"W x 12"D



Coping Unit
4"H x 18"W x 11.25"D

EQUIPMENT NEEDED

- Gloves, knee pads
- 3 in. mason's chisel
- 3 lb. hammer or rubber mallet
- Standard carpenter's level, line level and string line
- Tape measure, shovels and wheelbarrow
- Plate compactor (3 hp. to 5 hp.) and hand tamper
- Concrete saw with a diamond blade
- Construction adhesive

ESTIMATING CHART

Total Wall Height (Number of courses including the coping)	Total Wall Length					
	5'	10'	15'	20'	25'	30'
	Number of Standard Units					
4' 3" (8)	60	120	180	240	300	360
3' 9" (7)	53	105	158	210	263	315
3' 3" (6)	45	90	135	180	225	270
2' 9" (5)	38	75	113	150	188	225
2' 3" (4)	30	60	90	120	150	180
1' 9" (3)	23	45	68	90	113	135
1' 3" (2)	15	30	45	60	75	90
9" (1)	8	15	23	30	38	45
	Number of coping units					
Revers-A-Cap®	8	16	24	32	40	48
Tapered Units	For use on convex curves. Calculation same as standard units.					
Corner Units	One left unit and one right unit for every two courses in each corner.					

Note: This estimating chart is based on using Pisa II Standard Straight, Standard Tapered and Corner units, and Roman Pisa Standard Tapered and Corner units. For calculating material requirements using Roman Pisa Jumbo, Flat Top and Half units, refer to the Ashlar Patterns on the next page.

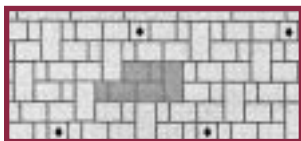
STEP-BY-STEP INSTALLATION

Eight easy steps to lasting beauty for your retaining wall.

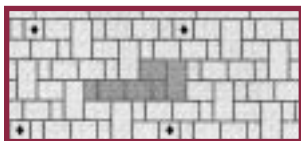
The following directions are for the installation of a typical Interlock Pisa II and Roman Pisa retaining wall measuring 4 ft. in height and under. Walls over 4 ft. can be just as easily constructed, but they will require the use of a geogrid. Ask your distributor for details. Before you start, it is important to have your project fully designed on paper. Use the pattern layouts shown on this page as guides in planning your design. The Ashlar Patterns shown are only for use with Roman Pisa. If you require assistance with creating your design, or have any further questions regarding installation, please consult your knowledgeable Interlock dealer.

ASHLAR PATTERNS

For Roman Pisa



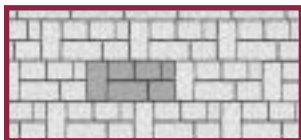
Pattern 1 – Per 100 sq. ft.:
164 Standard Tapered, 110 Half, 56 Jumbo



Pattern 2 – Per 100 sq. ft.:
164 Standard Tapered, 110 Half, 56 Jumbo



Pattern 3 – Per 100 sq. ft.:
160 Standard Tapered, 42 Half, 80 Jumbo



Pattern 4 – Per 100 sq. ft.:
139 Standard Tapered, 47 Half, 93 Jumbo



Pattern 5 – Per 100 sq. ft.:
150 Standard Tapered, 75 Half, 75 Jumbo



Pattern 6 – Per 100 sq. ft.:
150 Standard Tapered, 75 Half, 75 Jumbo

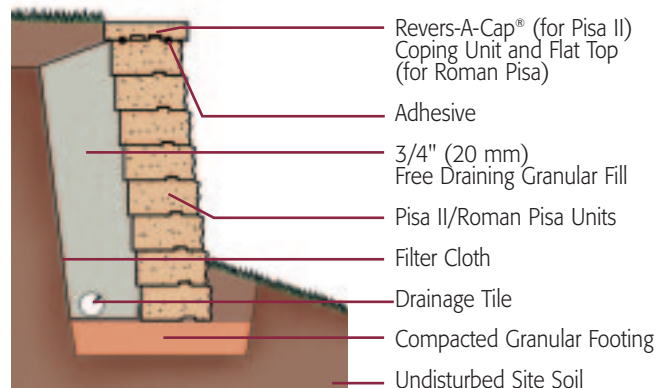


Pattern 7 – Per 100 sq. ft.:
124 Standard Tapered, 73 Half, 94 Jumbo

♦ Jumbos cut in half (makes 6" x 6" face)

SYSTEM PROFILE

Typical Cross Section



CONSTRUCTION DETAILS

Steps



Pisa II: Use Standard units for risers. Use Revers-A-Cap® for step treads.

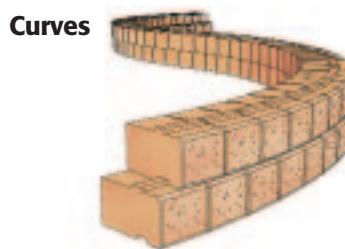
Roman Pisa: Use Flat Top for risers. Use Coping for step treads. Use adhesive to adhere.

Corners

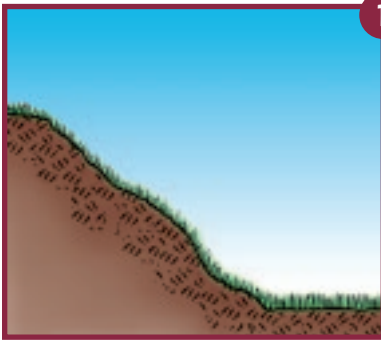


For outside corners use corner units, available in both rights and lefts. These are designed with a split face on two adjacent sides. Do not cut corner units. Instead cut standard units to fit corner unit. Install corners on top of each other reversing rights to lefts on preceding courses. When installing Pisa II and Roman Pisa, chisel 4" of the tongue off adjacent unit to allow next corner unit to rest flat.

Curves



Use the tapered units on convex curves. For smoother curves use left tapered on one course, right tapered on the next. Minimum radius allowed is 8 ft. Pisa II Revers-A-Cap® and Roman Pisa Coping can be used for both straight or curved walls.



1 Plan

Mark a line where the front base of the wall will be placed (keeping in mind the 3/4" setback per course). Use the Estimating Chart to calculate the number and type of units required, according to your wall's planned measurements. Important: before digging contact utilities to determine if it is safe to excavate.



2 Excavate

Remove enough soil to create a trench 12" deep and 24" wide. Shape the back slope to allow for 12" of drainage material behind the wall over its entire height, remembering to account for the 3/4" setback per course.



3 Prepare Base

Compact base and ensure native soil around trench is stable. Now, lay the filter cloth on the base and against the exposed face of the excavation. Fill the trench with well-graded 3/4" minus angular gravel. Level and compact base to a depth 6" below ground level.



4 First Course

Position a level string line to mark the location of the first course. Place the first course of units on the prepared base making sure each unit is level front to back, and side to side.



5 Stack Units

Sweep clean the top of first course. Now place next course of units on top of first course in a running bond pattern (placing the center of the block on the top course above the joint between two blocks on the lower course). Repeat this process for each course.



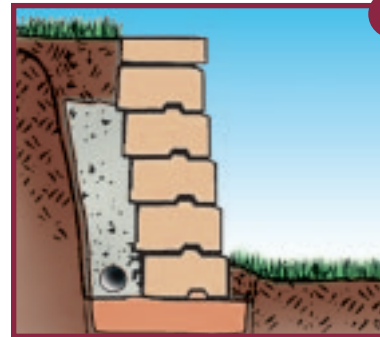
6 Backfill

Place a drain tile on the base material behind first course of units and fill behind the wall with a free draining granular fill. Compact fill after every 6" added. Place soil in front of the wall to ensure the first course is completely buried. Continue to stack units and backfill until desired height is achieved.



7 Secure Coping or Revers-A-Cap®

On the last course of wall units place a line of adhesive on both sides of the tongue. Place the coping unit on top and apply pressure to secure. For Roman Pisa use Flat Top then glue down Coping.



8 Finish Grading

After backfilling to about 6" below the top of the wall, pull the filter cloth towards wall. Backfill the remaining area with top soil. Remember to slope the soil above and below the wall to ensure water will flow away, and not accumulate near the wall.