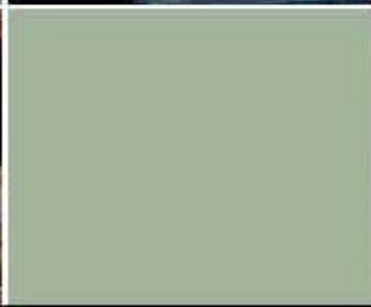




# INTER-BLOCK

RETAINING SYSTEMS, INC.

MANUFACTURERS OF ENVIRO-BLOCK™





# INTER-BLOCK

RETAINING SYSTEMS, INC.

1-800-406-2066

[www.inter-block.com](http://www.inter-block.com)

IBRS has more than 18 years experience. We provide solutions from concept to completion for all of your earth retaining needs.

- Flood Control
- Security / Force Protection
- Containment Bins
- Retaining Walls
- Military Bunkers
- Sea Walls

We can assist with any project in any phase from concept and engineering to installation and completion.



## Enviro-Block™ Retaining Walls

Retaining walls can be colored with stain or cast with integral color. This wall has been cored at the top for fence posts.



## Enviro-Block™ Sea Walls

Left: Downtown Vancouver sea wall. Right: Roman stair sea wall structure.



## Enviro-Block™ Material Containment Bins

Containment Bins can be built to accommodate any layout.





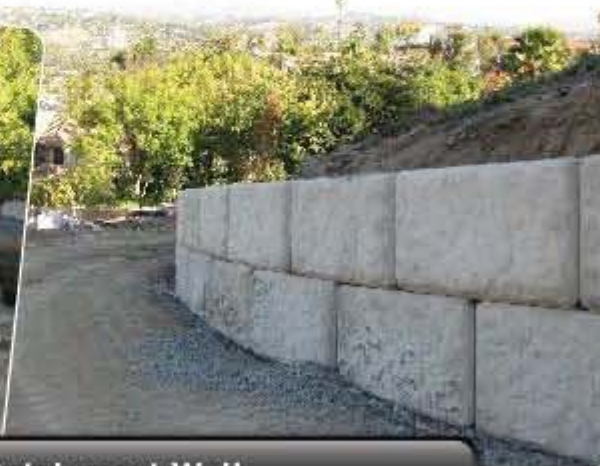
### **Enviro-Block™ Flood Control**

**Left: Flood control water structure. Right: Frasier river retaining wall.**



### **Enviro-Block™ Military Application**

**Left: Trench warfare training facility. Right: Military bunker installation.**



### **Enviro-Block™ Retainment Wall**

**Residential Driveway**





### **Enviro-Block™ Retaining Wall**

**Built to accommodate a County Fire Station**



### **Enviro-Block™ Flood Control**

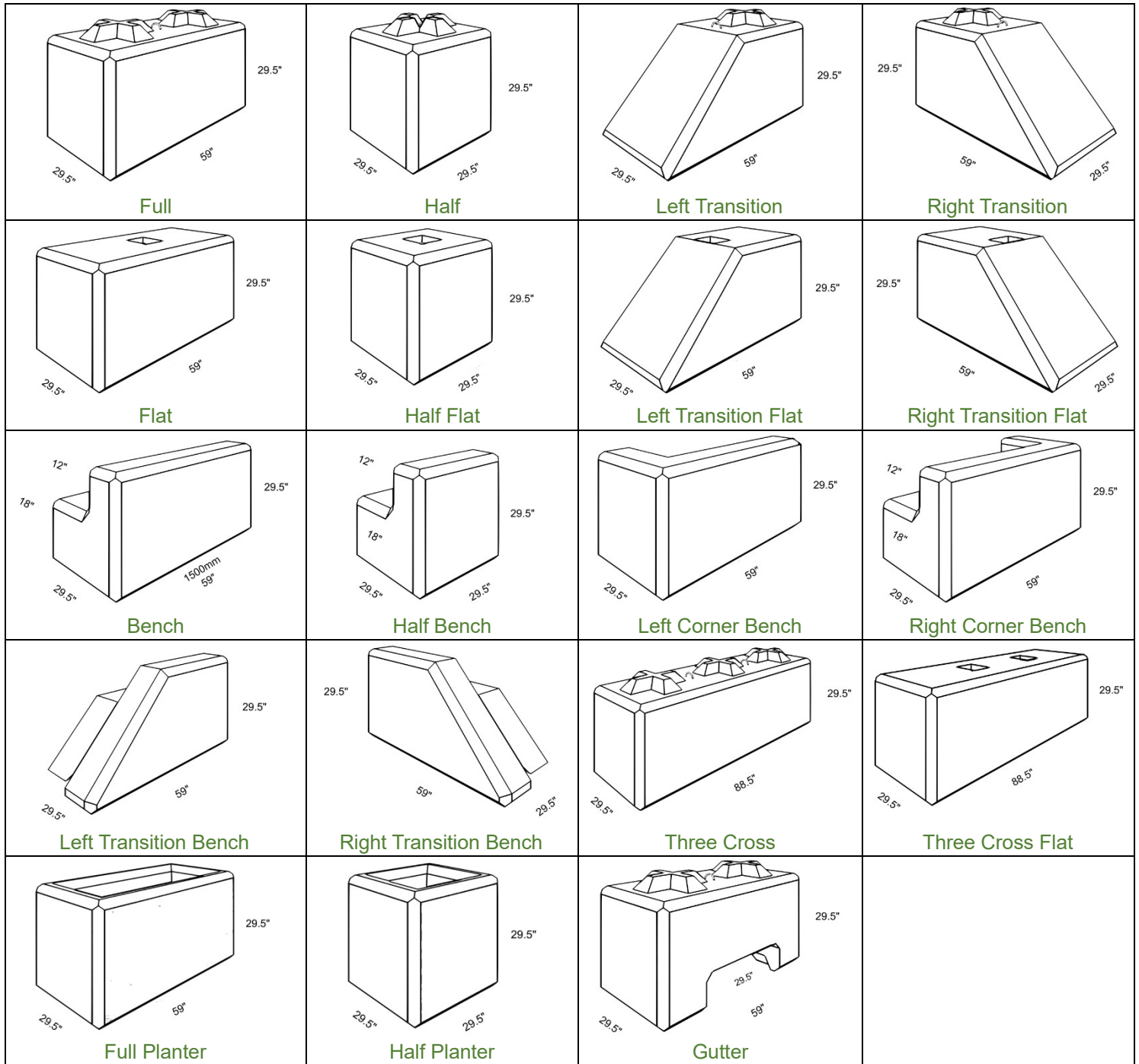
**Left: Crew installing flood control coffer dams. Right: Channel Wall**



### **Enviro-Block™ Security Wall**

**Security barrier with CMU texture & stained**

## SPECIFICATION SHEET



The Enviro-Block™ retaining wall system is a modular, concrete gravity wall design. The system incorporates interlocking blocks, large 4" high male keys at the top. The interlocked wall will still yield 1/2" per 5 feet of length, allowing a more uniform base loading and less stress on the concrete.

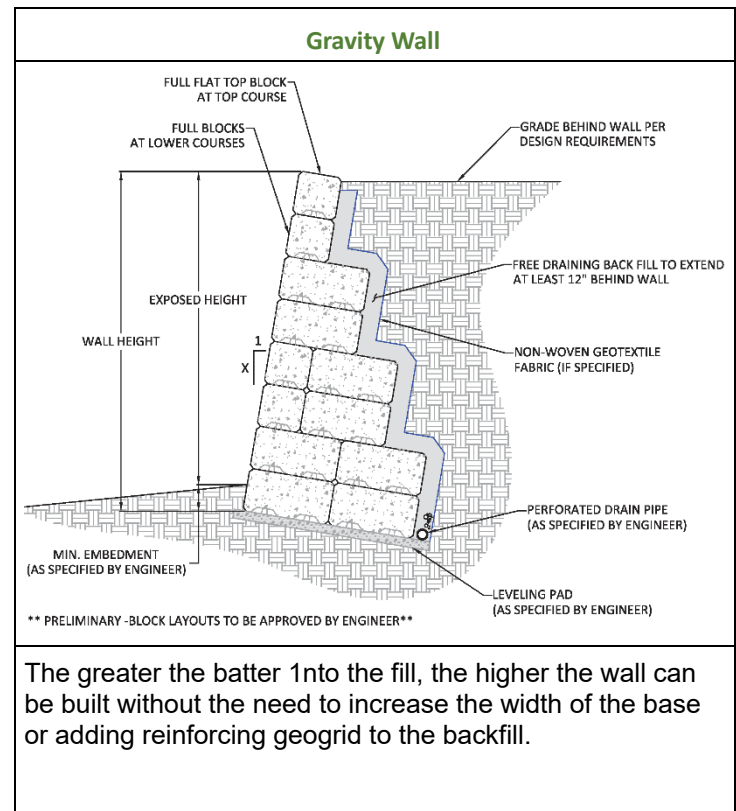
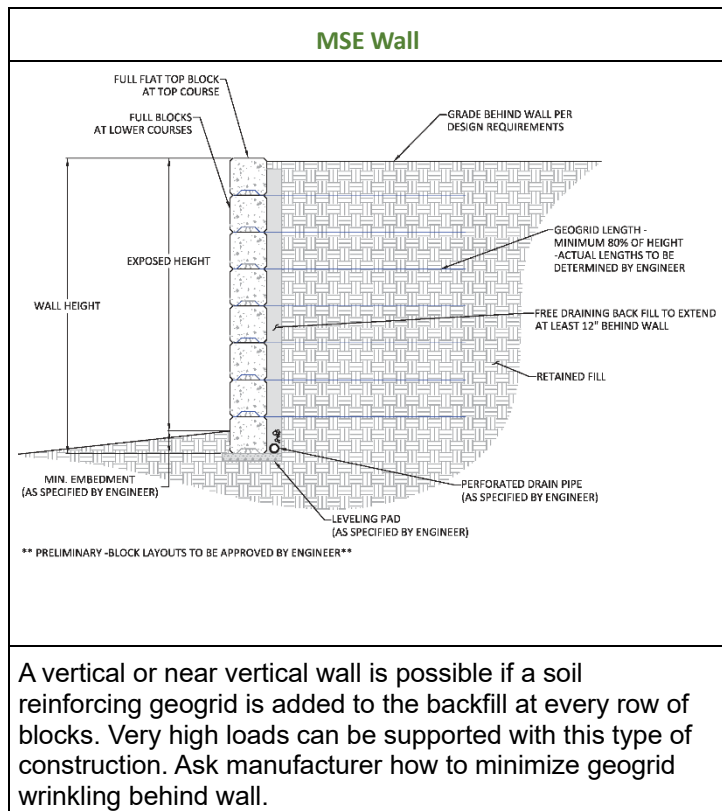
Description	US Standard
Height	2.46' / 29.5" ±1/4"
Width	2.46' / 29.5" ±1/4"
Length	4.92' / 59.1" ±1/2"
Volume	28.7ft <sup>3</sup> / 1.06yds <sup>3</sup> ±0.03yds <sup>3</sup>
Average Weight/Mass	3,969lbs ±104.5lbs
Historical Compressive Strength†	3,775psi ± 731psi‡

†Compressive strength test results available upon request

‡Compressive strength standard deviation of one sigma assumes a normal distribution and would apply to 66% of all blocks.

## INSTALLATION TIPS

1. Always start with a smooth base, joint lines in the wall can only be as straight as the base on which they are placed. A six inch blanket or granular materials, compacted and raked or screeded smooth is normally a sufficient base.
2. If possible, prepare the entire base before placing blocks so that a visual inspection can be made to minimize bumps and hollows.
3. If the location is not level or has a stepped bottom surface, place the lowest block first, taking care to align the front face of the wall.
4. Only use handheld compacting equipment within 4 feet of the fill side of the wall.
5. As the surface finish of the blocks is variable, the best face of the block should be turned out.
6. **IMPORTANT** -Begin placing the second row of blocks after no more than 5 or 6 bottom blocks have been placed, again taking care to align the front face of the wall. This is particularly important if the bottom row of blocks is turned sideways to the direction of the wall, because the smooth-faced liner blocks are slightly less than 29.5" wide. The bottom row in this case will have a small gap to provide the correct clearance for the subsequent row. That is, when a row of blocks is placed perpendicular to the face of the wall, the distance between the centers of the key of two consecutive blocks must be 29.5". This would create a small gap between the blocks. (Remember, there is approximately 0.5" of clearance in every direction in the fit of the keyways)
7. Should the clearance become tight for the second row of blocks, merely place the next block along the bottom row, with a slight gap (1 0mm), the second and subsequent rows will then have sufficient clearance. Continue placing subsequent rows, taking care to align the front face.
8. Non right-angle corners, or corners where walls have different batters are achieved more easily by:
  - a. Building a 2 block square column and placing each battered wall against the adjacent sides of the column.
  - b. Building the 2 walls independently and pouring the corners afterwards.
9. If desired, the wall can be curved either vertically, horizontally, or both.
10. For speed & convenience a track mounted hydraulic excavator is the best machine to place the blocks.
11. Pressure washing & sealing the surface will minimize algae growth and prolong new appearance.
12. Some useful tools to have on the job-site includes:
  - A transit to lay out a level base. -Shovels and rakes for base preparation.
  - A broom to clean the keyways before placing the next layer.
  - One or more 5 foot pry bars for jostling the blocks into position.







### Enviro-Block™ Installation

Left: Block being installed using spreader bar. Center: Framework set for gravel base. Right: Gravel being placed.

**WARNING:** No construction should be undertaken without professionally engineered specifications for the site and issuance of proper permits.



### Enviro-Block™ Textures

Available cut face and mortared stone face textures.



### Enviro-Block™ Textures

Left: Custom texturing. Right: CMU texture, stained with spear-tip rail attached

# INTER-BLOCK

RETAINING SYSTEMS, INC.

1-800-406-2066

[www.inter-block.com](http://www.inter-block.com)

P.O. Box 2992  
Valley Center, CA 92082  
760-751-0231 Phone  
760-751-2267 Fax





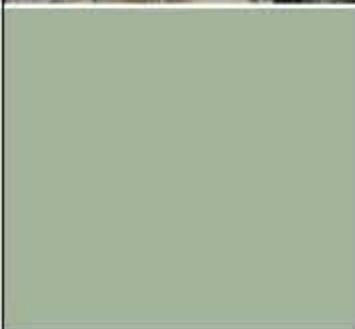
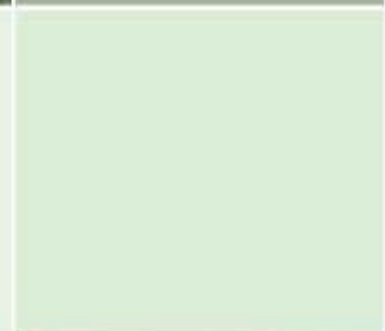
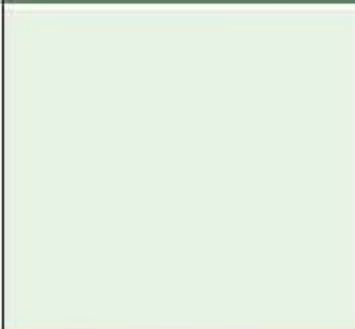
# INTER-BLOCK

RETAINING SYSTEMS, INC.

1-800-406-2066

[www.inter-block.com](http://www.inter-block.com)

MANUFACTURERS OF ENVIRO-BLOCK™



Inter-Block Retaining Systems Inc.  
P.O. Box 2992  
Valley Center, CA 92082  
760-751-0231 Phone  
760-751-2267 Fax

