

# Consumers

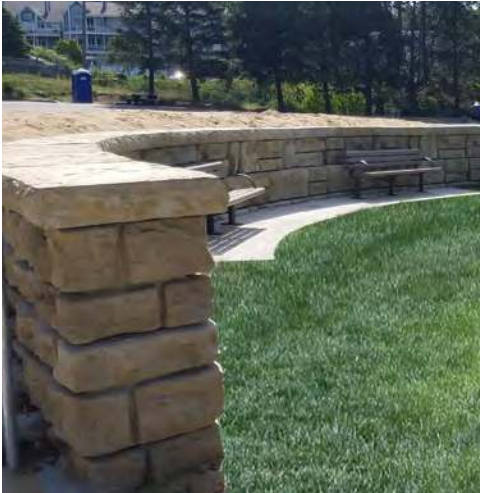


## CONCRETE CORPORATION



**COMMERCIAL CATALOG FOR DESIGN PROFESSIONALS**





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in the pdf  
are clickable



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## About Us

Consumers Concrete has been trusted since 1933 for supplying quality products at a fair price. We are a proud producer of Allan Block, Rockwood® and Redi-Rock™ retaining walls along with patio pavers and outdoor living kits that include an exciting outdoor kitchen line. We also manufacture architectural block with our PermaGrind™ and Bella Brik™ products. Consumers Concrete is a leading supplier of ready mixed concrete with 22 strategically placed plants throughout West Michigan featuring Artevia™ Decorative Concrete, Agilia™ Self-Consolidating Concrete and Hydromedia™ Pervious Concrete products.



## What is a Retaining Wall

“Retaining Walls” are built to be tough and to last. Many of these wall systems are engineered to hold the ground in place to minimize or eliminate erosion. They are also used to “carve out” usable space in a hillside area where erosion control is needed. Retaining walls are typically installed by professional contractors. The use of professional engineering services is also advised for retaining walls over 4 ft. in height and for any nonstandard site or soil conditions.

# Purpose of Catalog Section



This catalog is designed for use by professional contractors and landscape architects / engineers to see the project possibilities there are with concrete retaining wall systems. Concrete retaining wall systems can provide a variety of aesthetic options and site solutions for your construction project. The resources noted and linked in this publication are intended to help develop new ideas and aid in the decision-making process. Please consider us a resource to help you determine which system and application best fits the needs of your project.





# ROCKWOOD® Classic® 6



Classic® Split Straight



Classic® Split Beveled



Universal Cap



Natural Base Block

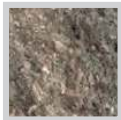
### Standard Colors



Antique



Country



Granite



Montana



Natural

### Also Available:

6" Corner Block

6" Half Block

Custom Colors  
Available

Description	Size HxWxD (Inches)	Sq. Ft. Unit	Weight (Pounds)	Units Pallet	Sq. Ft. Pallet	Weight Pallet	Set Back
Classic 6" Straight	6 x 18 x 12	0.75	63	48	36	3,072	3/4" / 6"
Classic 6" Beveled	6 x 18 x 12	0.75	60	48	36	2,880	3/4" / 6"
Classic 6" Half	6 x 9 x 12	0.38	30				
Classic 6" Corner	6 x 13 x 5.5	0.54	32				
Universal Cap	4 x 18 / 14 x 10.5	0.50	54	48	24	2,642	
Base Block - Beveled	6 x 18 x 12	0.75	60	48	36	2880	





# AB® Classic Collection



AB Ashlar Blend™ Pattern



AB Cap



AB Classic



AB Corner



AB Jumbo Jr.



AB Lite Stone



AB Junior Lite



AB Stone 12° Setback  
(Special Order)

## Standard Colors



Antique



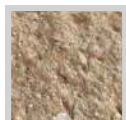
Country



Granite



Montana



Natural

Custom Colors  
Available

Description	Size HxWxD (Inches)	Sq. Ft. Unit	Weight (Pounds)	Units Pallet	Sq. Ft. Pallet	Weight Pallet	Set Back
AB Classic	8 x 18 x 12	0.92	71	40	36.8	2,890	6°
AB Jumbo Jr.	8 x 9 x 9.5	0.46	35	64	29.44	2,290	6°
AB Lite Stone	4 x 18 x 12	0.46	26.5	64	29.44	1,696	6°
AB Junior Lite	4 x 9 x 12	0.23	17.5	96	22.08	2,030	6°
AB Classic Corner (L&R - Sold in Pairs)	8 x 14 x 9		112 Per Pair	27 Pairs		3,024	
AB Classic Cap	4 x 18 x 12	0.38	55	48	18.24	2,690	







# AB® Europa Collection



AB Abbey Blend™ Pattern



AB Dover



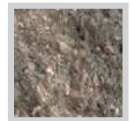
AB Palermo



Standard Colors



Country



Granite

Custom Colors Available



AB Europa Corner



AB Europa Cap



AB Barcelona



AB Bordeaux

Description	Size HxWxD (Inches)	Sq. Ft. Unit	Weight (Pounds)	Units Pallet	Sq. Ft. Pallet	Weight Pallet	Set Back
AB Dover	8 x 18 x 10.5	0.92	73	40	36.8	2,920	6°
AB Palermo	8 x 9 x 9.5	0.46	39	64	29.44	2,496	6°
AB Europa Corner (L&R - Sold in Pairs)	8 x 14 x 9	.71 Face .38 End	112 Per Pair	27 Pairs		3,024	6°
AB Barcelona	4 x 18 x 10.5	0.46	44	64	29.44	2,900	6°
AB Bordeaux	4 x 9 x 10.5	0.23	19	96	22.08	1,875	6°
AB Europa Cap	4 x 18 x 12	0.38	58	48	18.24	2,835	





# AB<sup>®</sup> Aztec



AB Aztec Classic



AB Aztec Jumbo Jr



AB Aztec Lite Stone



AB Aztec Corner



AB Aztec Junior Lite



AB Aztec Caps



Standard Colors



Granite

Custom Colors  
Available



Description	Size HxWxD (Inches)	Sq. Ft. Unit	Weight (Pounds)	Units Pallet	Sq. Ft. Pallet	Weight Pallet	Set Back
AB Aztec Classic	8 x 18 x 12	0.92	75	40	36.8	3,000	6°
AB Aztec Jumbo Jr.	8 x 9 x 9.5	0.46	35	64	29.44	2,240	6°
AB Aztec Lite Stone	4 x 18 x 12	0.46	35	64	29.44	2,240	6°
AB Aztec Junior Lite	4 x 9 x 12	0.23	18	96	22.08	1,728	6°
AB Aztec Corner (L&R - Sold in Pairs)	8 x 16 x 8		110 Per Pair	27 Pairs		2,970	
AB Aztec Cap	4 x 18 x 12	0.38	55	48	18.24	2,640	





## **Ledgestone Pattern** (Top Stone Shown)

The random texture on a Ledgestone block makes the individual blocks nearly indistinguishable, while giving the impression of a natural stone wall. The Ledgestone block has 5.75 sq.ft. of face.



## **Cobblestone Pattern** (Top Stone Shown)

When you choose REDI-ROCK™ Cobblestone texture, you get the structural capabilities of a large block retaining wall system with a smaller scale look. The Cobblestone texture block has the appearance of six smaller blocks on each 5.75 sq.ft. face.







## Steps

Redi-Rock™ large scale 7" x 24" x 48" steps are available in brown, sandstone, and gray colors. Finished on three edges and at ideal tread height, these units make a great step for use in the Redi-Rock wall systems. These beautiful and solid units provide a step solution in almost any project.

Arizona Tan

Gray

Montana



Curved Step



Description	Size HxWxD (Inches)	Sq. Ft. Unit	Weight (Pounds)	Units Pallet	Weight Pallet
Cobblestone Pattern	18 x 46 x 41*	5.75	2300		
Ledgestone Pattern	18 x 46 x 41*	5.75	2300		
Steps	7" x 26" x 48"		650	5	3,250

\*Data for middle block - sizes and weight vary by unit type



# Gravity Walls



A gravity wall is a type of retaining wall that uses the force of gravity or the weight of the blocks that make up the wall to stand up and retain the area behind it. Most gravity walls use the principal of setback to make a stable wall without the use of reinforcement. Gravity walls tend to be shorter in height. There are options to build taller gravity walls, depending on the soil conditions and type of retaining wall system used.





# Reinforced Walls



A reinforced retaining wall is needed when the retaining wall height exceeds the ability of a gravity wall. Typically, Geogrid is used to provide the additional strength needed to retain the area needed. Additionally, there are other criteria that must be taken into consideration when designing a reinforced retaining wall and some are listed briefly below.

## Design Considerations

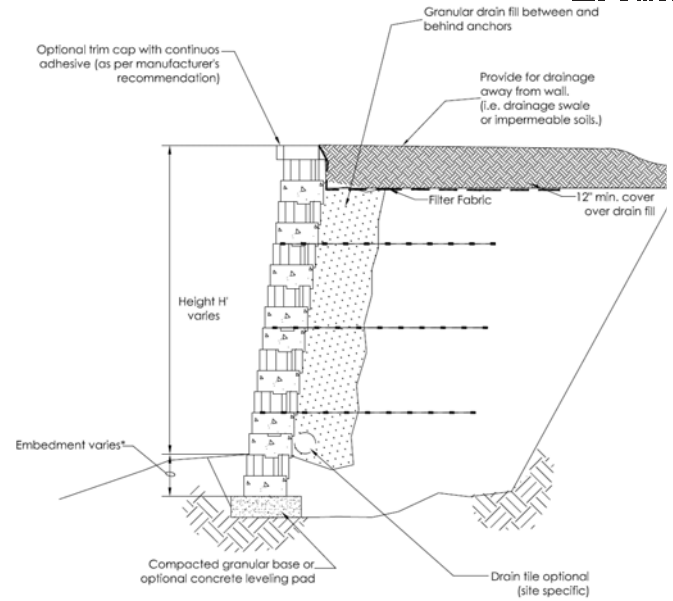
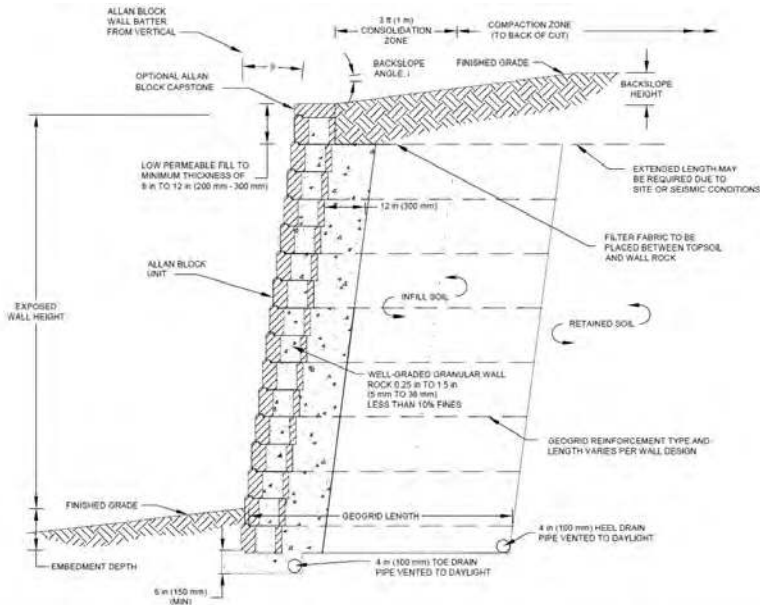
- **Grid strength** Select the right strength grid for the job. Choose LTADS grids from 500 lb/ft to 4000 lb/ft (7.3 kN/m to 58 kN/m)
- **Embedment length** Grid length must extend far enough behind the wall to create a sufficient reinforced gravity mass. Typically a minimum of 60% of total wall height.
- **Number of layers** Install enough layers to adequately increase the internal strength of the soil mass and handle all applied loads.
- **Spacing between layers** Grid layers must be correctly spaced to distribute internal forces. Typically spaced on 16 in (405 mm) centers.
- **Connection strength** Block and geogrid must work together to resist internal forces.
- **Surcharges** Any added weight above the wall is called a “surcharge.” Parking lots, swimming pools and driveways are common surcharges. Surcharges are defined as light or heavier commercial surcharges if there is going to be truck or heavy equipment loads above the wall.





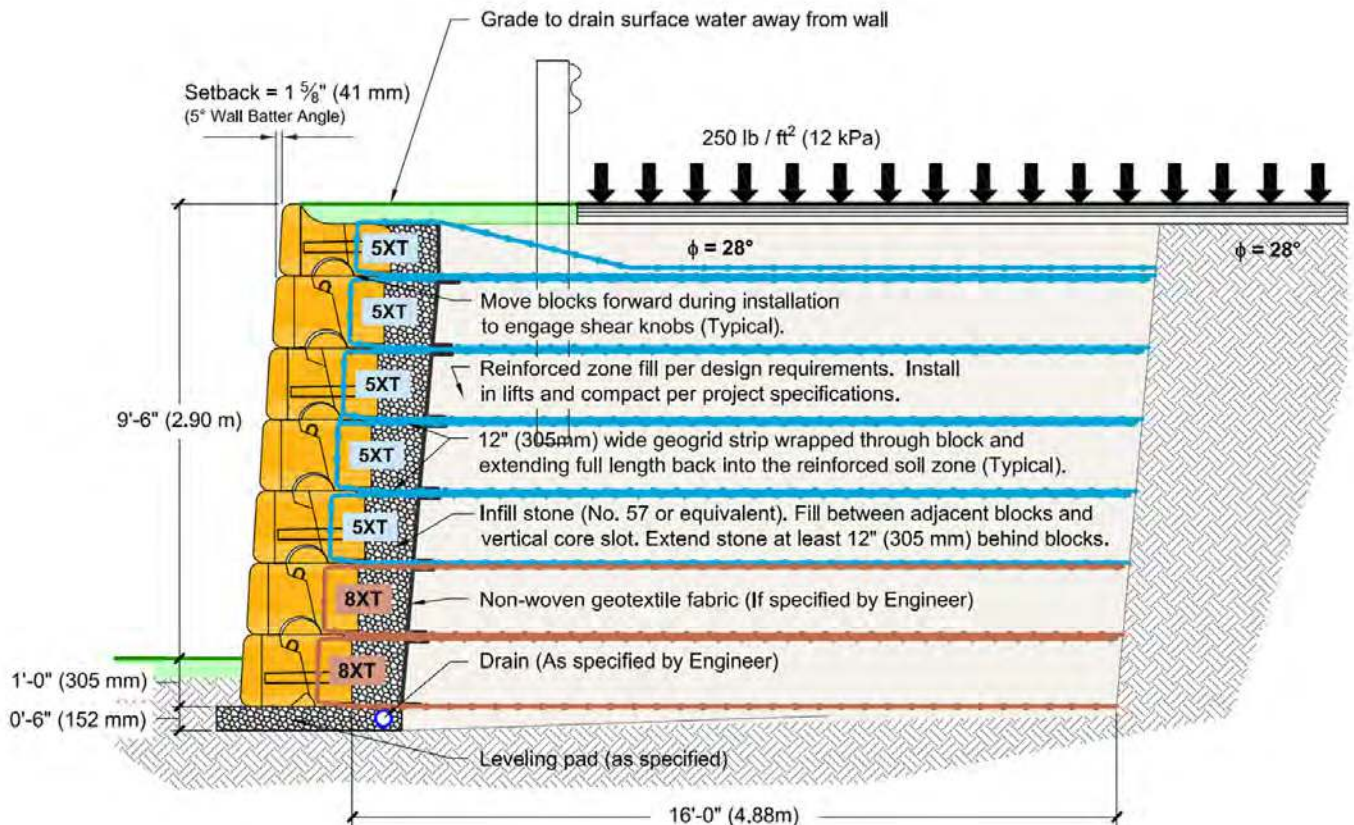
## Allan Block - Cross Section

## Rockwood Classic 6 - Cross Section



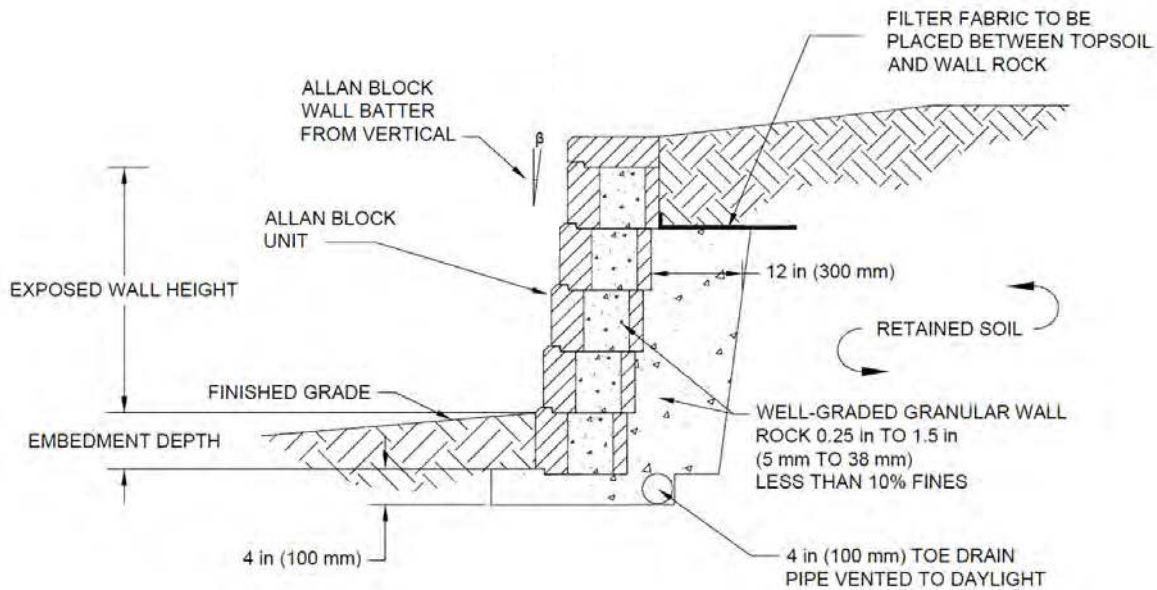
# Typical Reinforced Wall Cross Sections

## Redi Rock - Cross Section





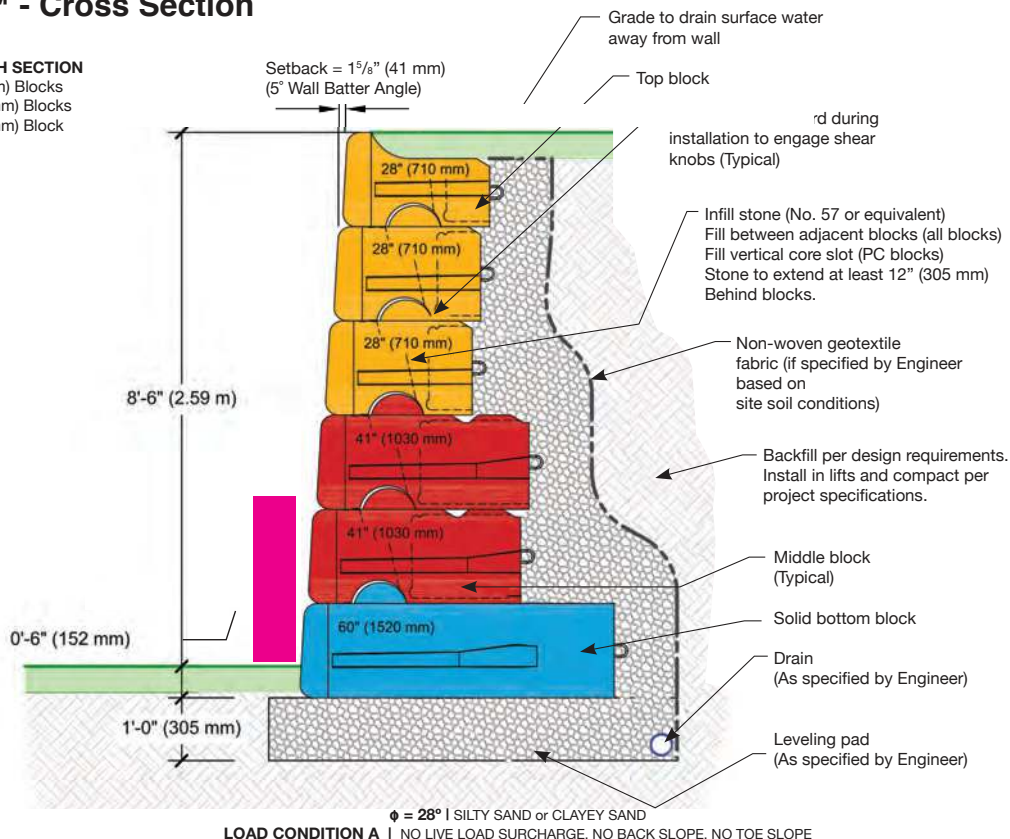
## Typical AB Gravity Wall Section - Cross Section



# Typical Gravity Wall Cross Sections

## Redi-Rock™ - Cross Section

**6 BLOCK HIGH SECTION**  
 (3) 28" (710 mm) Blocks  
 (2) 41" (1030 mm) Blocks  
 (1) 60" (1520 mm) Block



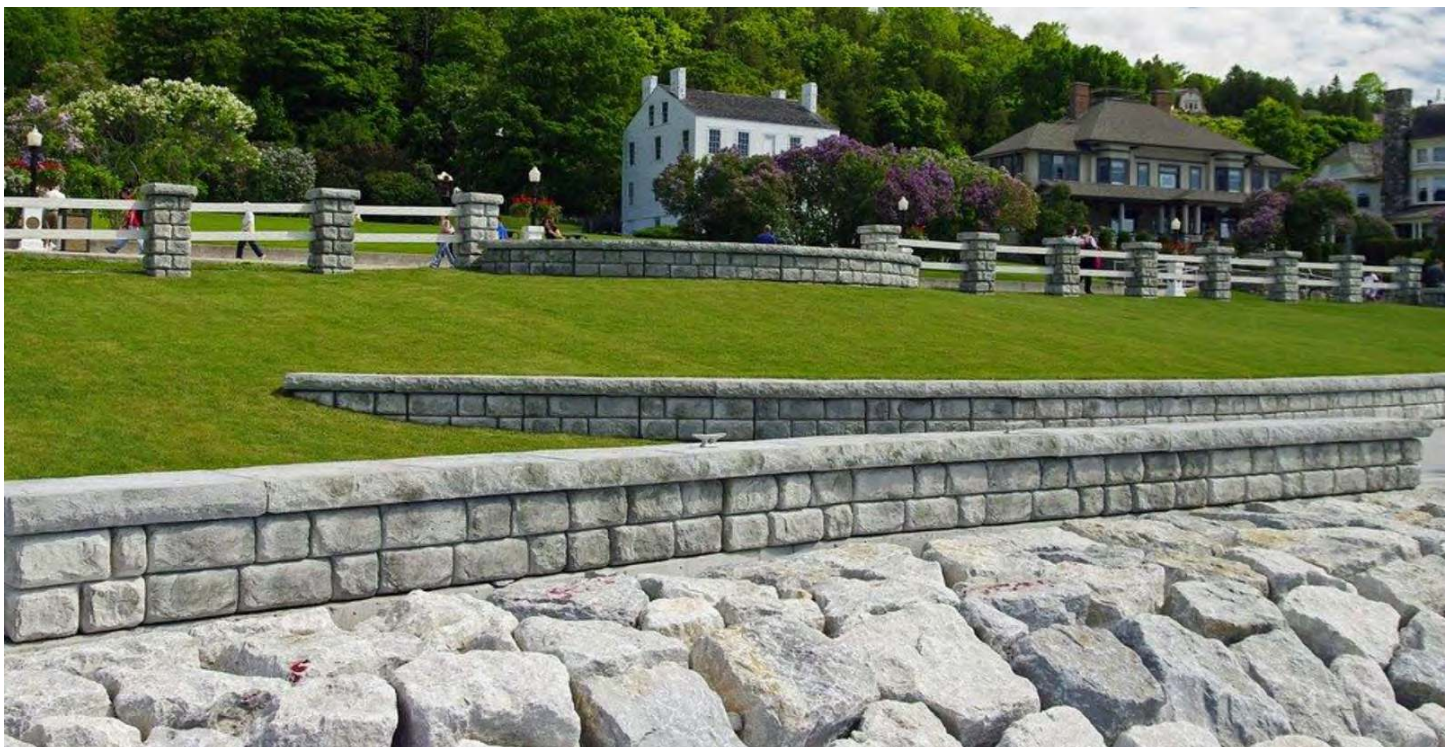
**These drawing are for reference only.** Determination of the suitability and /or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site. Final wall design must address both internal and external drainage and all modes of wall stability.



# Freestanding Walls



Freestanding walls are typically 2 sided blocks used as screening walls, pedestrian barriers or property/privacy barriers where little or no retaining is needed.

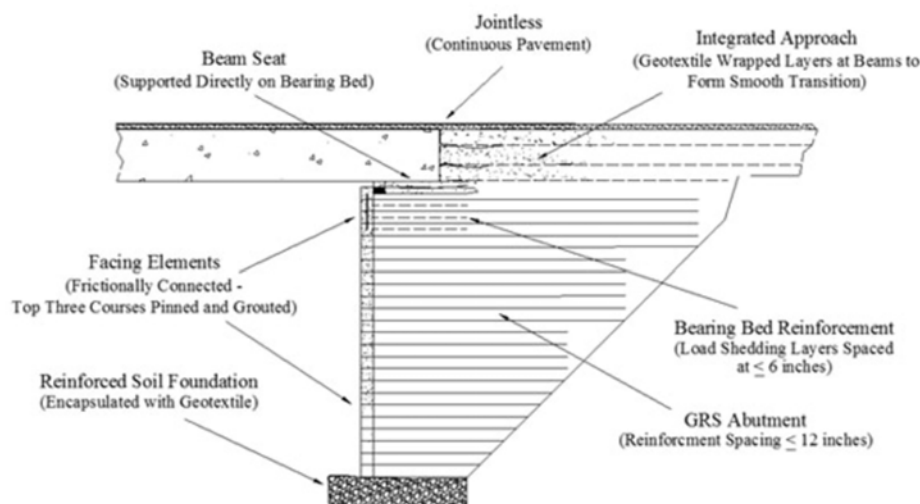




# Introduction to GRS-IBS



The Geosynthetic reinforced Soil-Integrated Bridge System (GRS-IBS) is an innovation to help reduce bridge construction time and cost. The GRS acronym represents alternating layers of compacted granular fill and layers of geosynthetic reinforcement to provide support for the bridge. IBS stands for the fast, cost-effective method of bridge support that blends the roadway into the superstructure.



## Advantages

- Accelerated construction. GRS-IBS bridges can be built in weeks rather than months due to the simple machinery and tools.
- Reduced cost. GRS-IBS have saved up to 60 percent in cost compared to a standard DOT bridge, and the system potentially requires less or simpler life-cycle maintenance.
- Flexible design. GRS-IBS bridges employ a simple design that can be adapted to suit environmental or other needs, and the design can be easily modified in the field to adjust to unexpected site conditions.
- Construction is less dependent on weather conditions.
- QA/QC Advantages by using Allan Block which meets local and regional requirements.
- Non-specialized labor.
- No deep foundation, no approach slab, no sleeper slab, no parapets/CIP walls, no bridge bearings, and no expansion joints.
- Eliminates the “bump” when transitioning from the bridge structure.

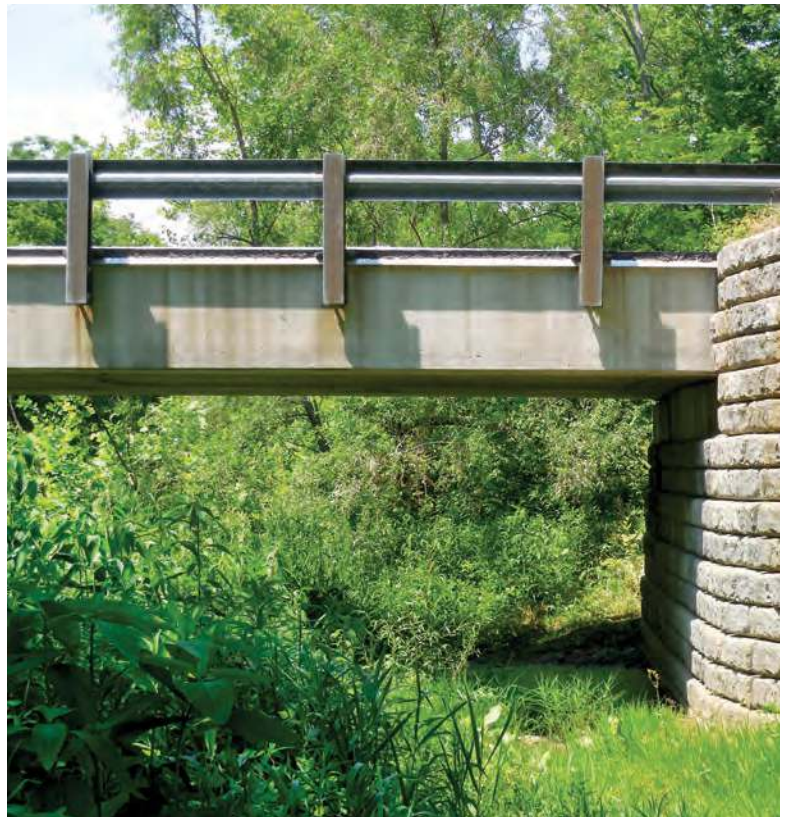


# GRS-IBS In Action





# GRS-IBS In Action



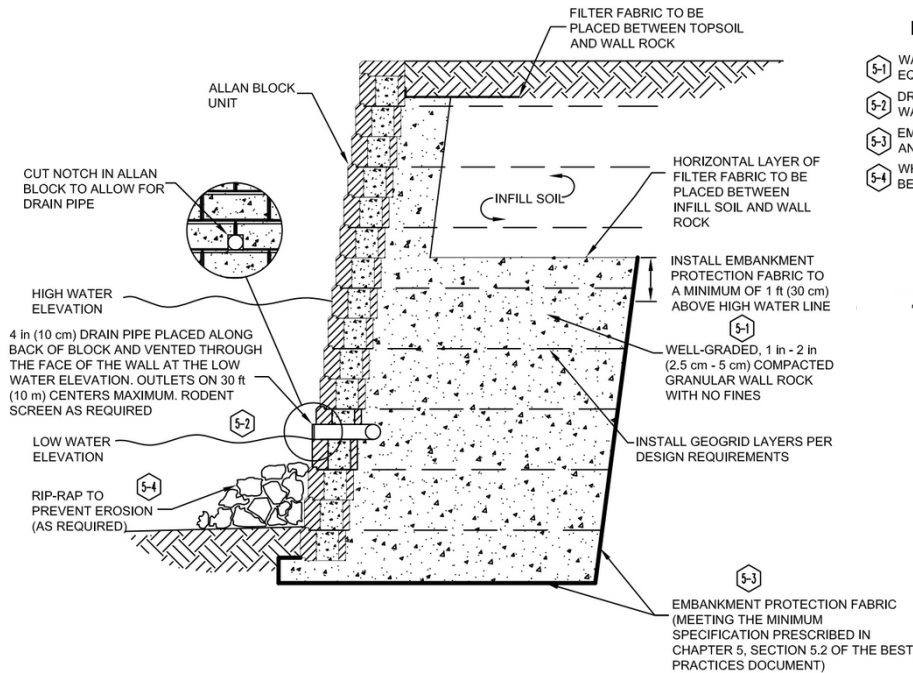


# Water Applications



Retaining walls built where there is water either moving past, has wave action, or defining a retention pond are considered water applications. Unit retaining wall systems can provide a long-lasting beautiful solution that adds value and offers erosion protection to the surrounding land. Water application solutions are unique to each site and consultation of a qualified engineer to help with the design is highly recommended.

## Best Practices Water Application



### BEST PRACTICES NOTES:

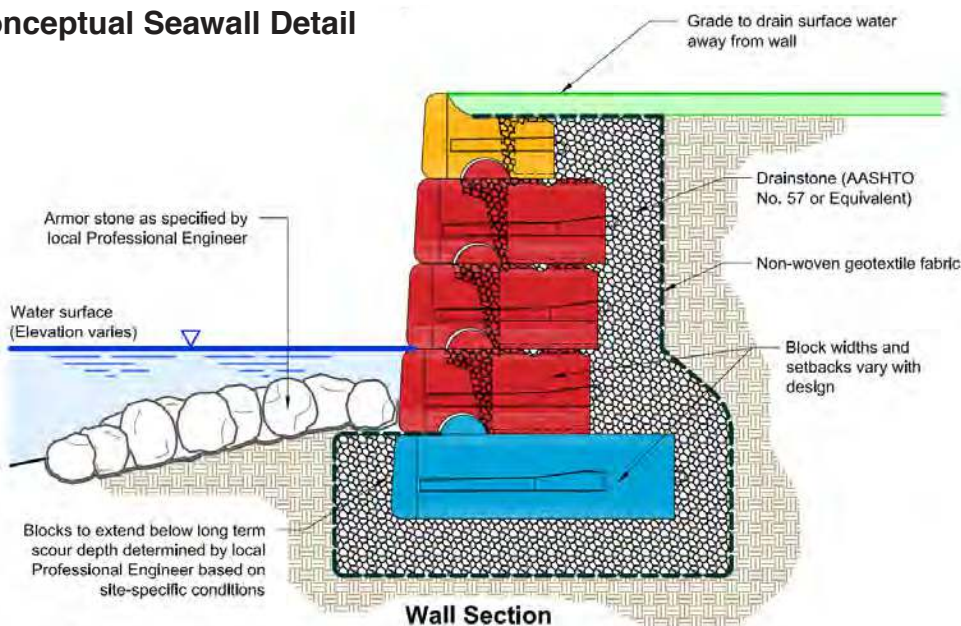
- 5-1 WALL ROCK PLACED TO THE LIMITS OF THE GEOGRID UP TO A HEIGHT EQUAL TO 12 in (30 cm) HIGHER THAN ANY WATER SOURCE (CHAPTER 5.1)
- 5-2 DRAIN PIPE RAISED TO THE LOW WATER ELEVATION TO AID IN EVACUATION OF WATER DURING WATER FLUCTUATION (CHAPTER 5.2)
- 5-3 EMBANKMENT PROTECTION FABRIC SHOULD BE USED UNDER THE INFILL MASS AND TO A HEIGHT OF 12 in (30 cm) HIGHER THAN HIGH WATER MARK (CHAPTER 5.2)
- 5-4 WHEN MOVING WATER IS DETERMINED, RIP-RAP IN FRONT OF THE WALL SHOULD BE PLACED TO PROTECT THE WALL FROM SCOUR EFFECTS (CHAPTER 5.2)

\* SEE BEST PRACTICES DOCUMENT CHAPTER 5.0 FOR MORE WATER APPLICATION NOTES

• REFER TO BEST PRACTICE TYPICAL ALLAN BLOCK DRAWING 1.0 FOR REINFORCED WALL APPLICATIONS AND ALL OTHER NOTES, DETAILS AND SPECIFICATIONS.

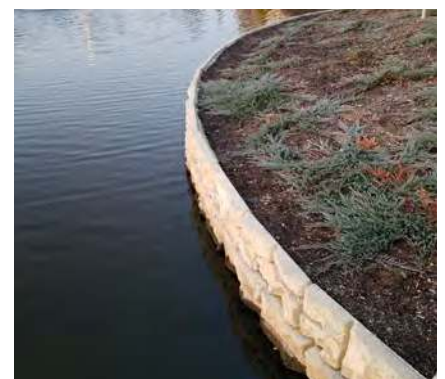


## Conceptual Seawall Detail



### Notes:

- Use ASTM No. 57 stone (or as specified by local Professional Engineer) to infill between blocks.
- Preliminary wall height charts do not apply and should not be used for walls in water applications due to the variety of site-specific variables.
- Contact your local Professional Engineer for specific details and final design.
- Walls may require geogrid reinforcement.
- Refer to final engineering plans.







# AB® Fencing

Privacy/Sound Fencing



## The System

This concrete fence uses posts and panels like many typical fence systems to construct beautiful and durable concrete structures that will stand the test of time. The AB Fence Blocks have a split-faced look on one side and striated look on the other side. This gives the AB Fence System the ability to offer many different looks and styles without having to order any special blocks. Incorporating different color blocks to form patterns or banding within the panels and posts allows for even more options.

The AB Fence Blocks lock together to create posts and panel sections that are versatile and stack up quickly for easy installation, which saves you time and money. The system can incorporate curves and corners with ease and use different colored/textured or multiple shaped blocks to create beautiful patterned fences.





# Product Specifications and Literature

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## Allan Block Specifications

<https://www.allanblock.com/specifications/wall-specifications.aspx>



## Allan Block Design Details

<https://www.allanblock.com/design-details/wall-details.aspx>



## Allan Block Engineering Manual

<https://www.allanblock.com/literature/pdf/EngManual.pdf>



## Allan Block Installation Guide

<https://www.allanblock.com/literature/PDF/ABCommManual.pdf>



## Rockwood Installation Manual

[https://issuu.com/davidspies/docs/classic\\_install\\_english\\_8-17?e=1789506/56813999](https://issuu.com/davidspies/docs/classic_install_english_8-17?e=1789506/56813999)



## Rockwood StoneHedge Installation Manual

[https://issuu.com/davidspies/docs/stonehedge\\_xl\\_imninstall?e=1789506/10708555](https://issuu.com/davidspies/docs/stonehedge_xl_imninstall?e=1789506/10708555)



## Rockwood Classic 6 Specification

<https://rockwoodwalls.com/resources/specifications/classic-6-specification.pdf>



## Rockwood StoneHedge Specification

<https://rockwoodwalls.com/resources/specifications/stonehedge-xl-specification.pdf>



# Product Specifications and Literature

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## Redi Rock Specifications

<https://www.redi-rock.com/technical-resources/engineering-specifications-concrete-retaining-walls-for-designers>



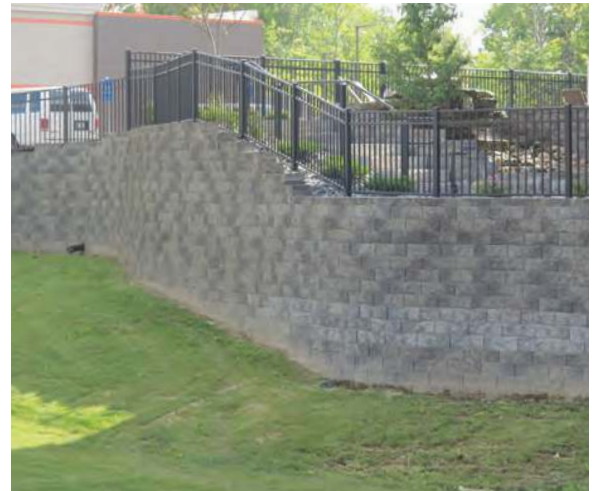
## Redi Rock Construction Details

<https://www.redi-rock.com/technical-resources/retaining-wall-construction-details-for-designers>



## Redi Rock Installation Guide

<https://www.redi-rock.com/installation/learn-how-to-install-beautiful-retaining-walls>



## NCMA Segmental Retaining Wall Installation Guide

<https://consumersconcrete.com/wp-content/uploads/2022/09/NCMA-Segmental-Retaining-Wall-Installation-Guide.pdf>

Get Preliminary Design Assistance From

Allan Block Engineering: [engineering@allanblock.com](mailto:engineering@allanblock.com)

Rockwood Engineering: [jsieberg@mortarless.net](mailto:jsieberg@mortarless.net)

Redi Rock Engineering: [info@redi-rock.com](mailto:info@redi-rock.com)



# Design Resources and Learning Opportunities

## Available 1 Hour Lunch and Learn Courses

SRW Design Presentation

Best Practices for SRW Design

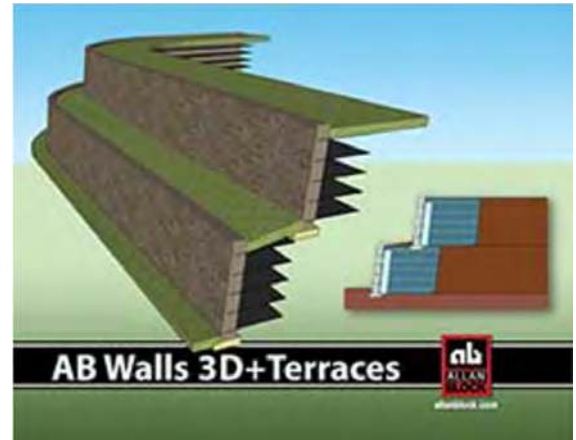
Introduction to Redi Rock

CEU Options Available



**REDI-ROCK**

## Free Wall Design Software



**REDI-ROCK WALL+**

**Contact your local representative to schedule a Lunch and Learn with Consumer's Concrete!**

Offering both in person and virtual options

Please use our Contact Us / Additional Information Request Form to get additional information on Lunch and Learn opportunities and any other questions you have.

Contact Us



<https://consumersconcrete.com/additional-information-request-form/>



# Specify a Certified Contractor



We encourage the use of certified contractors to install our products. Proper construction methods are necessary in order to build long lasting, durable retaining walls. At our certification classes, installers learn about basic wall design and installation in a classroom setting, afterwards implementing what they learned through a hands-on experience. To finish their certification, they have to build a wall on a project, according to industry standards and best practices. These classes connect installers to the design process and work towards a properly designed and built segmental retaining wall.

Whether you are a contractor looking for an edge in developing your business or a landscape architect / engineer wanting to do all you can to make sure the quality products you specify are installed correctly and efficiently, certified contractors may be the answer you are looking for.

Contact us for additional information on contractor certification programs we support. We are happy to assist you.







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PURE *M*ICHIGAN®

# COMMERCIAL CATALOG FOR PROFESSIONAL CONTRACTORS AND DESIGN PROFESSIONALS

The Company To Trust When The Concrete Matters