

## FEATURE & BENEFITS

- **NO SPECIAL TOOLS** or equipment needed.
- **FLEXIBLE** material conforms to soil. Eliminates many of the technical difficulties associated with construction of radius and serpentine structures.
- **COST EFFECTIVE.** Enables structures to be created with native or lower priced fill materials which reduces labor and material costs.
- **LONGER LIFE.** Significantly enhances the life cycle of the soil structure.
- **VARIETY.** A wide variety of strengths and sizes are available.
- **AVAILABILITY.** Most orders are shipped in one business day.
- **TECHNICAL ASSISTANCE.** See your local distributor for information on receiving a FREE preliminary design analysis for your retaining wall project or ask about the HTS program for 8' and under walls.

## USER TIPS

- Universal (6 ft walls and under) Geogrid may be placed parallel to or perpendicular to the retaining wall.
- Remove rocks or sticks, level and compact soil prior to installing geogrid.
- Stake or secure back edge of geogrid before moving on to the next course.

### OTHER APPLICATIONS for SRW Products geogrids

- Waste Containment
- Void Bridging
- Reinforced embankments over soft soil
- Roof support in underground mines
- Base course stabilization
- Erosion control
- Landscape repairs

## BI-DIRECTIONAL Geogrids

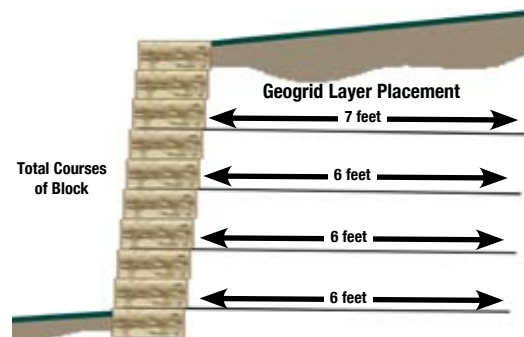
### BI-DIRECTIONAL GEOGRID FOR RETAINING WALLS 10' AND UNDER

SRW Products, Universal (Series 3) Geogrid is an easy-to-use, bi-directional geogrid that is popular with the serious do-it-yourselfer and contractors.

This geogrid works with any retaining wall system. No special tools or equipment are required ... just prepare the project site per the installation instructions supplied with the retaining wall system. Then, simply lay out the geogrid where needed, measure to the required length, and cut with an utility knife or scissors. When installed, it lays flat and will not recoil (even in cold weather).

"Bi-directional" means equal strength in both the length and width of the roll. Each label contains detailed design charts & installation instructions.

SRW Products Universal Geogrid is perfect for retaining walls up to 6 feet in height. The SRW Series 3 is perfect for retaining walls up to 10 feet in height.



Sample of 6' Retaining Wall using 8" Block

## OTHER SRW PRODUCTS AVAILABLE

**LANDSCAPE & CONSTRUCTION FABRICS**  
(Over 18 Varieties, 100 Sizes)

**ADHESIVES**

**DIAMOND BLADES**

**FABRIC STAPLES/SPIKES**  
(Available in bags or bulk)

**PAVER SEALERS and STABILIZERS**

**SILT FENCE**

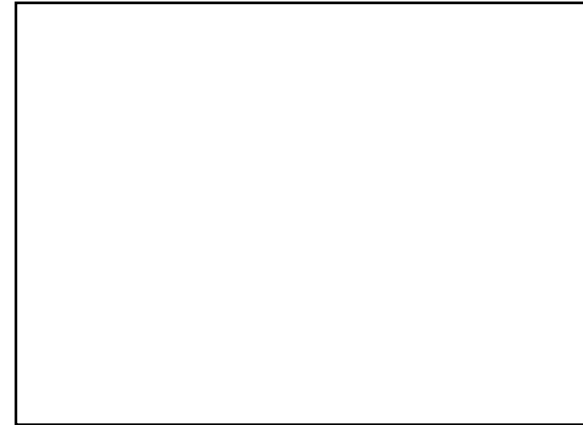
**STRAW BLANKETS**

**EXCELSIOR BLANKETS**

**WATTLE LOGS**

**SAFETY FENCE**

DISTRIBUTED BY:



**Important notice:** The recommendations and information presented herein are accurate to the best of our knowledge but will not apply to every installation. Specific applications will vary due to site conditions and installation procedures. Final determination of the use of any information or material is the sole responsibility of the user.



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For more information call us at 763-389-2722  
Visit our website at [www.srwproducts.com](http://www.srwproducts.com)

Members of:



# Geogrid

Aggregate-Soil Reinforcement

Preliminary Design Assistance Available



Adhesive

Concrete Fibers

Diamond Blades

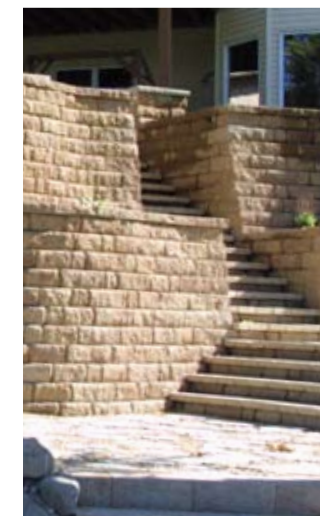
Earthworks

Fabrics

Geogrid

Paver Edging

Sealers & Stabilizers



763.389.2722  
[www.srwproducts.com](http://www.srwproducts.com)



With SRW Products geogrid product range, and the ability to manufacture specialty site specific geogrids, engineers are allowed greater flexibility in designing soil reinforcement structures.

## Why use SRW Products Geogrid?

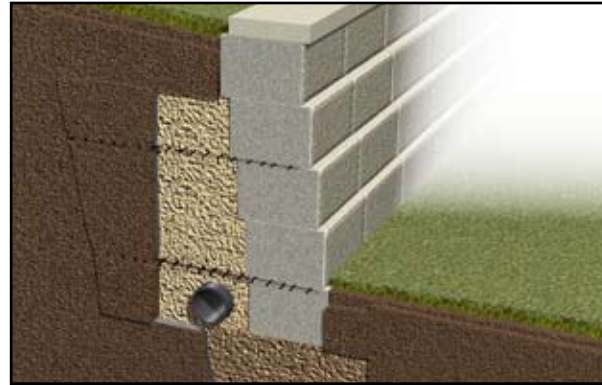
Soil behind the retaining wall can exert tremendous pressure on the blocks. Geogrid is placed to resist that pressure, while being resistant to biological degradation and from naturally encountered chemicals, alkalis and acids. These grids are composed of a high molecular weight polyester ... high tenacity multifilament yarns that are knitted into a stable network placed in tension. The high strength polyester yarns are then coated with a protectant PVC material.

Typical usage of geogrids are for soil reinforcement applications such as retaining walls, steepened slopes, embankments, sub-grade stabilization, embankments over soft soils, and waste containment applications.



# GEOGRID INSTALLATION

**DISCLAIMER:** Retaining wall designs vary significantly with different site, soil and loading characteristics. It is the responsibility of the owner to ensure that soil parameters conservatively represent the site soils. Proper geotechnical information may need to be considered and additional geogrid may be required. Global stability has not been considered in this analysis. Water table elevations have not been evaluated into the structural integrity of these preliminary designs. It is assumed that water run off, all modes of failure, including global stability, will be verified by a qualified, licensed civil engineer, and that user will comply with all local building codes. SRW Products accepts no responsibility for the use of the information presented herein. Applicability of this information to a specific use or purpose is the sole responsibility of the user. NOTE: See your SRW Products dealer for a preliminary design request form if the retaining wall does not fit the parameters shown on the placement tables below.



## SITE PREPARATION

Before proceeding, excavate to the lines and grades shown on the project grading plans and clear the ground surface of all debris. The segmental retaining wall units should be installed in strict accordance with the block manufacturer's recommendations. Use the following guidelines when it is time for placement of soil reinforcement.

## Installing Curves

### Geogrid Placement for Serpentine Curves

Trim geogrid to fit within the curve.

On the next course of block, place geogrid to eliminate the void left from the course below or primary course.

### Geogrid Placement for Convex Curves

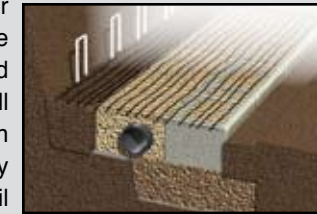
Trim geogrid to fit within the curve.

For proper anchorage, separate overlapping geogrid layers with a 3 inch layer of fill.

# WALLS UP TO 6 FEET

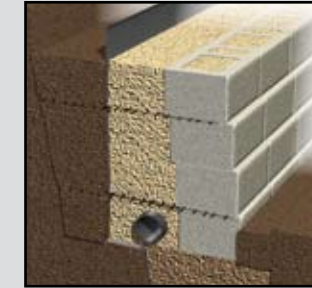
## GEOGRID INSTALLATION

1. Install all materials at the proper elevations and orientations as shown on the design plans as directed by the project engineer.
2. **SRW Products Universal (and Series 3)** geogrid may be installed either perpendicular or parallel to the wall for lengths 3, 4, or 6-feet. Cut grid to specified length and install. (Other SRW Products grid must be installed perpendicular to the wall.) Never overlap soil-reinforcement layers directly on top of each other. Each length of geogrid must be one continuous piece of material. Place grid 1-inch behind the front face of the wall.
3. Installed geogrid under tension — remove the slack by pulling the grid backwards from the wall face. A nominal tension can be maintained by staples or stakes, until the geogrid has been covered by at least 6 inches of structural fill.
4. Place the reinforced backfill in a maximum compacted lift thickness of 8 inches. Reinforced backfill should be compacted to a minimum of 95% of



the standard Proctor density (ASTM D698) or as required in the construction specifications.

5. Carefully place backfill in a manner that limits the development of wrinkles or movement of the geogrid and the segmental retaining wall facing units. Only walk-behind compaction equipment should be allowed within 3 feet of the back of the segmental retaining wall facing units. Place a minimum 6-inch layer of backfill before using motorized equipment on the geogrid area and drive slowly (turn gradually, if needed).

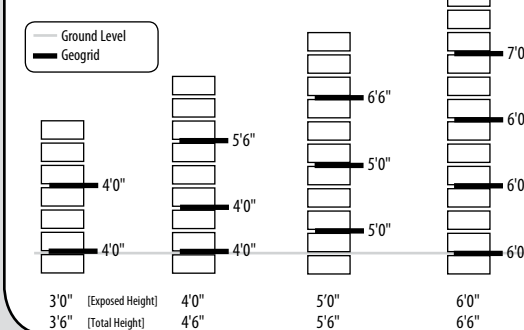


6. Continue additional courses, drainage material and backfill per construction or engineered plans. Backfill and compact as each course is completed. At wall top, place and compact a layer of impervious fill over the drainage aggregate, install cap units and complete final grading.



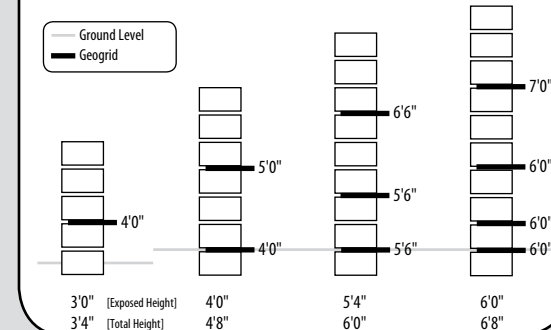
### GEOGRID PLACEMENT • 6" Block

3:1 Slope TOW & Flat BOW • Clay Soil



### GEOGRID PLACEMENT • 8" Block

3:1 Slope TOW & Flat BOW • Clay Soil



Each placement design table included is to be used up to the indicated height only. When the retaining wall exceeds that height, a higher design table should be used.

## Applications

**RETAINING WALLS:** Segmental Retaining Walls (SRW) and Mechanically Stabilized Earth (MSE) structures provide the most cost effective solution for retaining walls. Engineers can turn to SRW Products for a wide variety of geogrid solutions.

**STEEPENED SLOPES:** When (MSE) walls are not a feasible option, a reinforced slope can be considered. While native soils restrict the angle of construction, SRW Geogrids could allow for a less than 1:1 slope soil structure. The additional steepness in the angle of slope construction promotes a more efficient use of the land.