

# Shorelines

VERSA-LOK segmental retaining wall systems are ideally suited to various water applications—lake fronts, river banks, storm water channels, retention and detention ponds, and flood control installations. Because our wall systems are engineered for flexibility, their design capabilities offer many advantages as compared to other shoreline protection systems.

## Free-Draining Face.

VERSA-LOK walls are dry stacked and do not use mortar for installation. Mortarless construction permits water to pass through joints and helps prevent excess hydrostatic pressure from forming behind the walls.

*VERSA-LOK segmental retaining walls have been chosen for countless private and agency shoreline projects because of their durability and low life-cycle costs.*

## Solid, Durable Concrete Units.

Solid units offer unsurpassed durability before, during, and after construction. VERSA-LOK units utilize high-strength, low-absorption concrete that meets and exceeds industry standards. Solid characteristics make the VERSA-LOK system highly resistant to damage from rapid water flow, spalling, freeze/thaw cycles, and impact from floating debris.

## Flexible Base Design.

VERSA-LOK walls are placed on non-rigid, granular leveling pads. As flexible systems, VERSA-LOK segmental walls can tolerate minor earth movement without damage. This feature makes them well suited to all climates—including those that experience freeze/thaw cycles.

## Fast, Economical Installation.

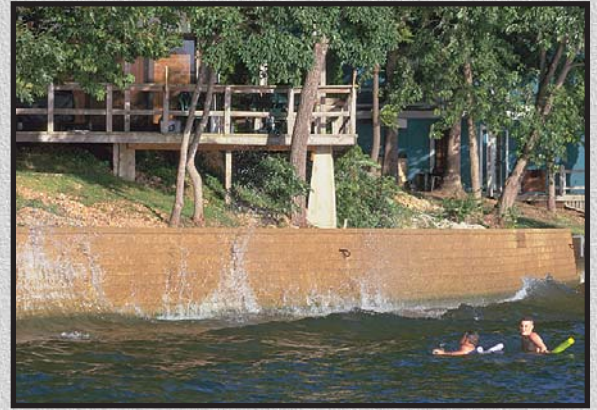
A unique interlocking mechanism provides quick, uniform alignment during installation. In addition, footings below frost are generally not required—often eliminating the expense of deep excavations and use of heavy construction equipment. Without large equipment, VERSA-LOK walls can be installed on limited access sites.

## Attractive Appearance.

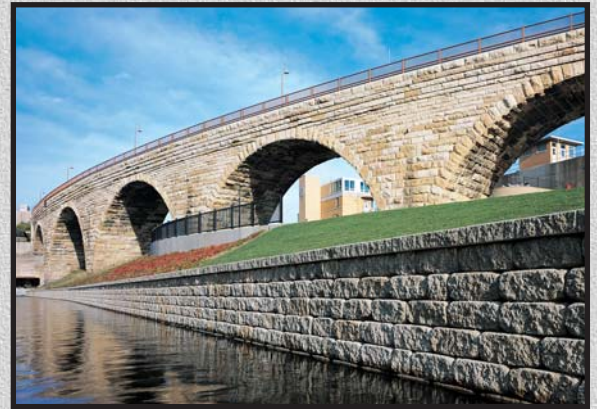
The classic, split-face texture of VERSA-LOK units complements any natural or architectural environment. Integrally colored units offer unlimited design options.

## Environmentally Safe.

VERSA-LOK concrete retaining wall units are made with natural materials that are available in abundant supply. Units won't threaten the environment like some chemically treated products.



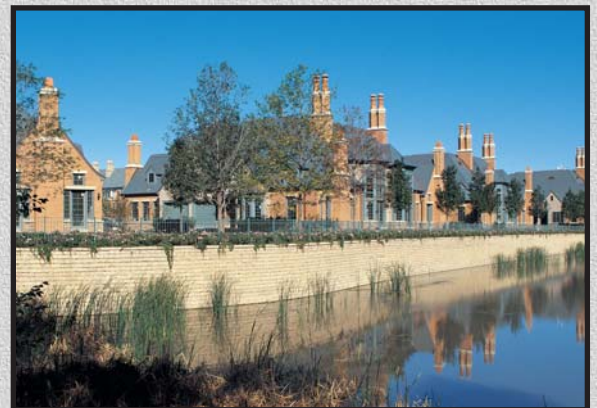
*Osage Beach, Missouri*



*Minneapolis, Minnesota*



*Charlotte, North Carolina*



*Barrington, Illinois*

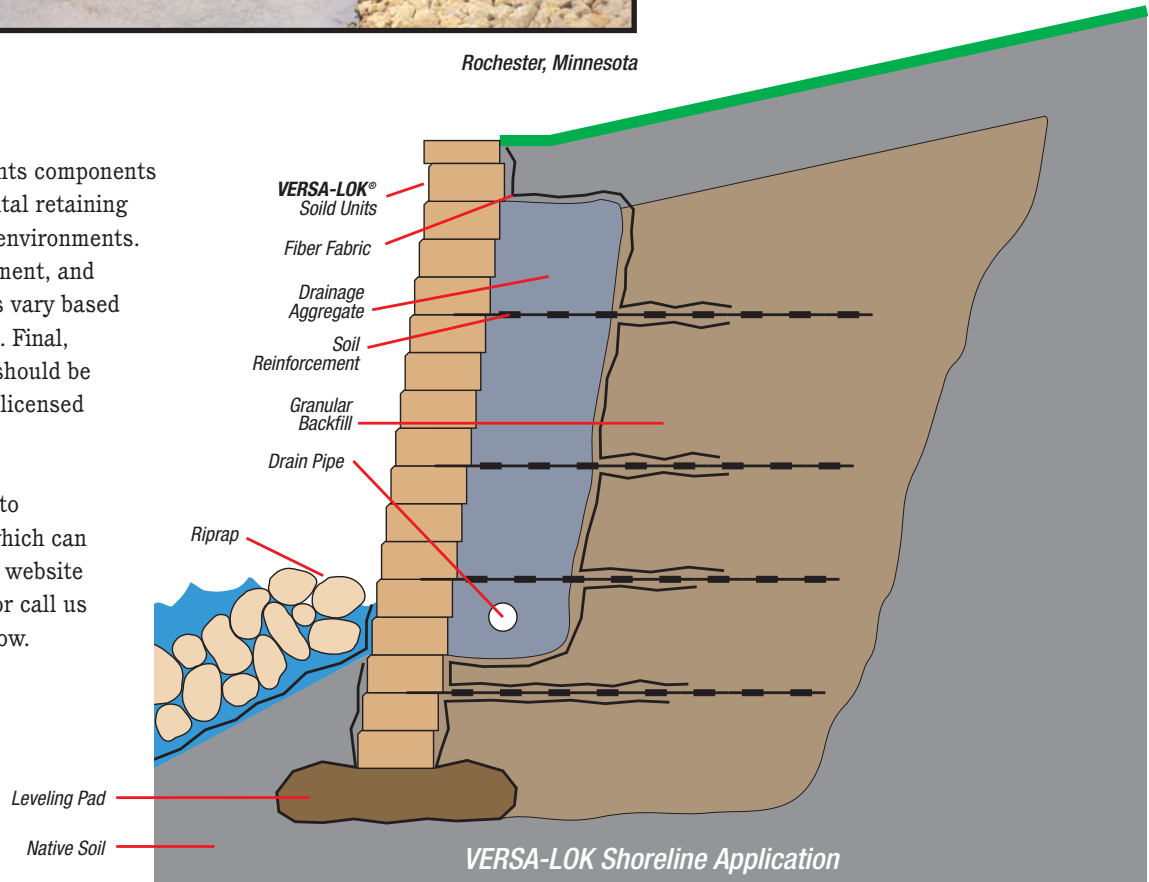


Rochester, Minnesota

Whenever a segmental retaining wall is placed in a permanent or periodical water environment, unique construction aspects should be addressed including soil reinforcement, foundation requirements, hydrostatic pressure behind the wall, internal drainage provisions, fines migration into drainage control areas, water drawdown, scour protection, ice forces, and surface water control.

This illustration highlights components of VERSA-LOK® segmental retaining walls used in shoreline environments. Drainage, soil reinforcement, and foundation requirements vary based on actual site conditions. Final, project-specific designs should be prepared by a qualified, licensed professional engineer.

For further detail, refer to Technical Bulletin #1, which can be downloaded from our website at [www.versa-lok.com](http://www.versa-lok.com), or call us at the number listed below.



VERSA-LOK Shoreline Application

VERSA-LOK offers a variety of technical support including in-house engineering assistance and reference literature. Call (800) 770-4525 with questions regarding applications and proper design for VERSA-LOK segmental retaining walls.

**VERSA-LOK®**  
Retaining Wall Systems  
*Solid Solutions.™*

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