



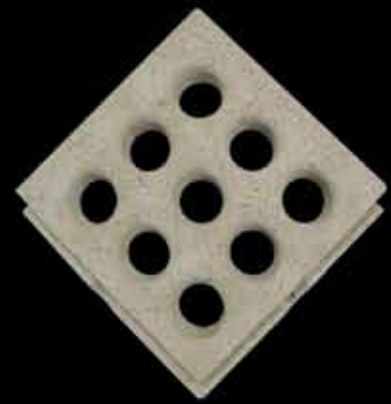
**SOIL RETENTION**

**Plantable** concrete systems®



**The premier  
alternative  
to rip rap  
and concrete  
lined  
channels!**

Channel lining  
Dam/spillway overflow protection  
Culvert outlets  
Detention/retention basins  
Embankments, levee stabilization  
Wetland traffic crossings  
Boat ramps  
Pipeline protection  
Access roads  
Bridge/pier protection  
Drainage swales



**ENVIROFLEX®** is a tapered, vertically interlocking articulating concrete block (ACB) system designed for erosion control use in riverine, channel, or other areas with high velocity flows that are subject to scour. Each block vertically interlocks with an overlapping connection, eliminating block-to-block protrusions in the direction of flow. The non-protruding **ENVIROFLEX®** system design reduces surface drag on the block during flow events, which minimizes overturning potential, creating the most stable ACB surface in the market. **ENVIROFLEX®** is manufactured from fiber reinforced concrete for added tensile strength. Openings in the block allow for infiltration and groundwater recharge to help mitigate flooding and storm water pollution. The openings also allow for vegetation to establish, which promotes bio-filtration and results in a green, natural, and environmentally pleasing appearance. **ENVIROFLEX®** is FHWA tested.



**Cost  
effective and  
environmentally  
friendly.**

#### **Competitive Advantages**

- Vertical Interlock
- "Zero" Protrusion
- Fiber Reinforced Concrete
- Easy Installation
- No Cables Required
- No Cranes Needed

#### **Benefits**

- Stability
- Permeable
- Plantable
- Bio-filtration
- Cost Effective
- No Maintenance

The **ENVIROFLEX**® interlocking ACB system offers a cost effective and environmentally friendly alternative to rip-rap, gabion mattresses, solid concrete or asphalt linings, and other hard armor systems. The thin profile of **ENVIROFLEX**® requires less excavation, trucking, and handling compared to most traditional systems. Maintenance costs are also reduced by eliminating graffiti potential or pouring on more rocks after a major storm. The products ability to accept sediment infill from storm events allows the establishment of riparian plants and enables cyclical natural habitat while providing a stable and scour proof bottom.



**BEFORE**



**DURING**



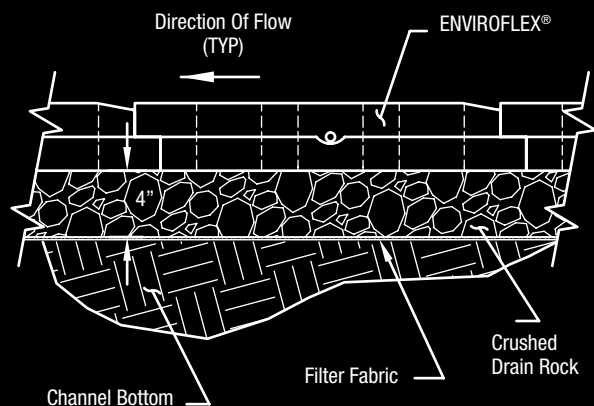
**AFTER**

## You don't need cables and you don't need a crane!

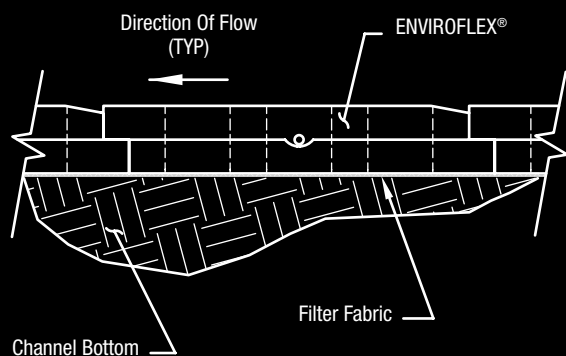
**ENVIROFLEX®** is an economical, durable, and environmentally sound soil stabilization system. The palletized product can be delivered right to the installation site and is easily placed with small track equipment in locations where cranes would find it difficult to reach. Using a specialized grappling tool allows placement of four pieces at a time for rapid installation.

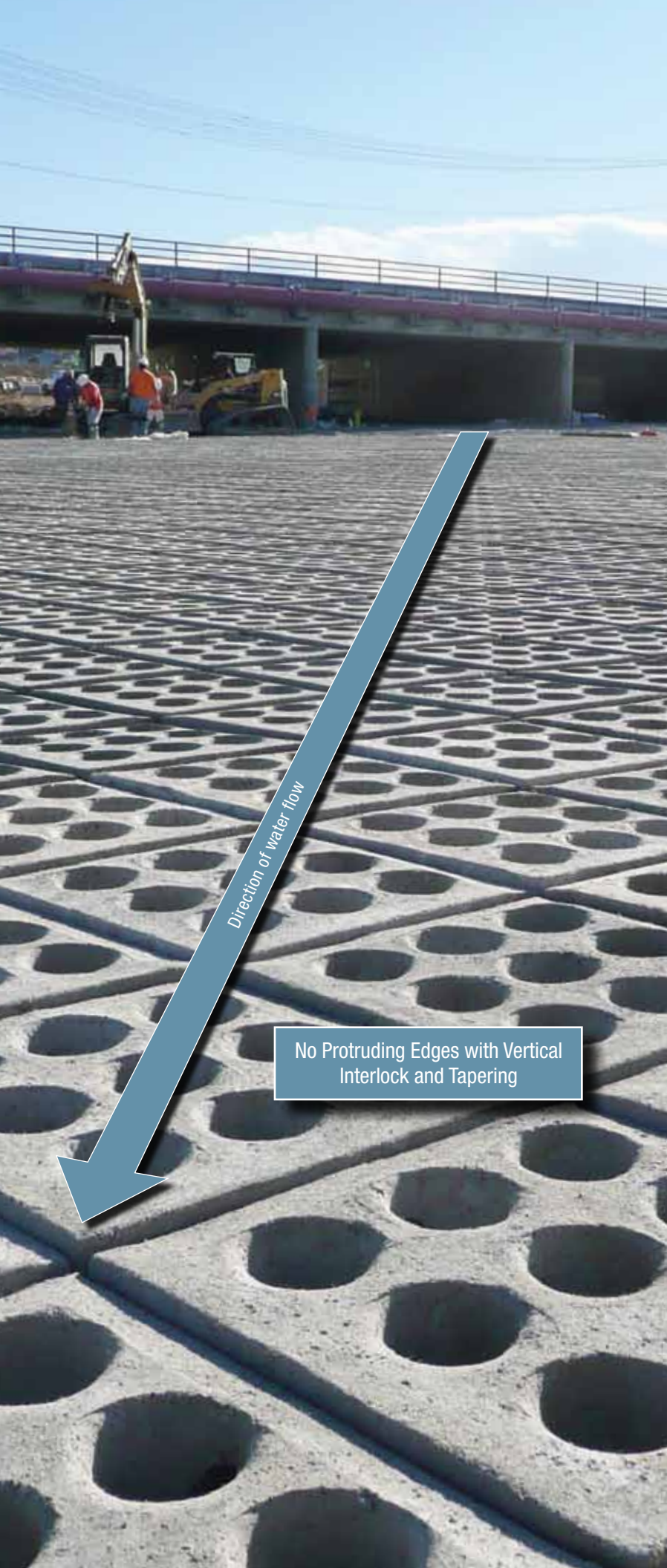
**ENVIROFLEX®** units conform to the following specifications:

| Property                                             | Unit               | 4" ENVIROFLEX®  | 6" ENVIROFLEX®  |
|------------------------------------------------------|--------------------|-----------------|-----------------|
|                                                      |                    | Value           | Value           |
| Specific Weight                                      | lbs./cu. ft.       | 130 – 150       | 130 – 150       |
| Compressive Strength                                 | psi                | 4000            | 4000            |
| Maximum Absorption                                   | lbs./cu. ft.       | 10              | 10              |
| Nominal Dimensions                                   | inches (l x w x h) | 21.5 x 21.5 x 4 | 21.5 x 21.5 x 6 |
| Net Coverage Per Block                               | sq. ft.            | 3.21            | 3.21            |
| Total Block Weight                                   | lbs.               | 111             | 164             |
| Unit Block Weight                                    | lbs./sq. ft.       | 35              | 50.5            |
| Open Area (nominal)                                  | percent            | 21.5            | 21.5            |
| <b>Typical Channel Section (W/4" Drainage Layer)</b> |                    |                 |                 |
| Critical Shear Stress                                | psf                | 18              | 24.8            |
| Velocity Limit                                       | ft/sec.            | 23.3            | 23.3            |



|                                                      |         |      |      |
|------------------------------------------------------|---------|------|------|
| <b>Typical Channel Section (W/No Drainage Layer)</b> |         |      |      |
| Critical Shear Stress                                | psf     | 6.2  | 8.6  |
| Velocity Limit                                       | ft/sec. | 12.1 | 12.1 |







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