



**Installation Instructions – Belted Silt Retention Fence – Priority 1  
(BSRF-Priority 1 – Green Band)**

**Silt Fence System Designed for the Control of Sheet Flow  
(Designed as an Alternative to Silt Fence with Steel Posts and Wire Support)**

**Product Description:** The BSRF® Priority 1 fabric is a patented silt fence product constructed of a 36” wide gray fabric, continuous filament polyester non-woven and needle-punched to entangle the continuous filaments. The BSRF® has an internal scrim incorporated into the fabric for additional strength and durability. The system utilizes wood stakes and a specific method of attachment. (See Installation Specifications). The BSRF®, when installed as specified, produces a proven system with superior filtering capabilities in slurry conditions.

BSRF® Priority 1 rolls are pre-assembled by the manufacturer. The method of attachment, for the BSRF®, is an integral part of the system and is unlike any other practices. Our specifically designed process includes wood (Hardwood) stakes and 1” x3/8 x 24” wood bonding strips at 4’ intervals. The fabric is placed between the bonding strip and the bonding strip is then stapled the stake. Each roll is 48” in length.

**Purpose:** The BSRF shall be used as a vertical interceptor of sediment transported by overland flow on construction sites. The Belted Silt Retention Fence (BSRF®) has been designed and tested as a silt fence **system**.

**Supporting Documents:** The BSRF® Priority 1 silt fence system underwent comprehensive testing by the University of Georgia. The study describes the proven performance and efficiency of the BSRF® and provides documentation of its superior attributes. As evidenced by the study, the BSRF® meets the 75% filtration efficiency requirements of the Federal Highway Administration. The University of Georgia study, in its entirety, may be found on the following website: [www.siltsaver.com](http://www.siltsaver.com) or [www.asabe.org](http://www.asabe.org)

**Installation Specifications:** The 1 ¼” x ¾” x48” (or equal density stakes are driven to a depth which allows 24” of the fabric to be above ground. The remaining fabric is now tucked into the trench forming a “J” and when filled with dirt creates a “ground bite”. With its firm attachment to each post, the load is now spread to the total linear strength of all the posts within the system. **Any variance from the material specifications installation requirements may alter the performance of this product.**

**Design Criteria:** Where all runoff is to be stored behind the sediment barrier (where no storm water disposal system is present), maximum continuous slope length behind a sediment barrier shall not exceed those shown in the following table. For longer slope lengths, slope interrupters must be used. The drainage area shall not exceed ¼ acre for every 100 feet of sediment barrier.

Land Slope Percent	Maximum Slope Length Above BSRF Silt Fence System	
	Feet	
<2	100	
2 to 5	75	
5 to 10	50	
10 to 20	25	
>20*	15	

\* In areas where the slope is greater than 20%, a 10 ft flat area for sediment storage between the toe of the slope to the BSRF Silt Fence System should be provided.

**Design Limitations:** Designed for control of **sheet flow**, The BSRF® silt fence shall not be installed across streams, ditches, waterways, or anywhere there is **concentrated flow**. Additionally silt fence shall not be placed around **storm water inlets** which are designed to receive **concentrated flow**. The BSRF® Priority 1 is designed for the protection of high priority areas to include wetlands, waterways, creeks, lakes or rivers.

**Maintenance:** Silt fence should be inspected at the end of each work day and particularly after each rainfall event. Accumulated sediment should be removed when it reaches half the height of the fence to prevent failures. Remove the fence and the accumulated sediment and stabilize the exposed area when the project is finished.

**Repair:** See installation drawing detail –

**Longevity:** The life of this product is determined at the point in which it is no longer effective or needed to do the job for which it was designed. (Approximately one (1) year)

Further details on this product may be found on our website: [www.siltsaver.com](http://www.siltsaver.com)