

### **Performance Based Sediment & Erosion Control Products**



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# BSRF<sup>™</sup> PRIORITY 1

Belted Silt Retention Fence – Priority 1 REINFORCED SILT FENCE

### NON-WOVEN HEAVY-DUTY SILT FENCE

(GREEN BAND)

Designed for use in Heavy Duty Sensitive Areas

48' PRE-STAKED ROLLS OAK / HARDWOOD POSTS SPACING AT 4' CENTERS

- >36" tall, non-woven spun-bond polyester fabric with an internal fiberglass scrim for added support
- Superior filtration in slurry conditions exceeds Federal Guidelines with > 96% efficiency
- The continuous green band at the top of the fence, as well as a unique method of attachment (sandwiching the fabric between the wood post and a bonding strip) enhances the strength of the system





## BSRF<sup>™</sup> PRIORITY 2 Belted Silt Retention Fence – Priority 2

NON-WOVEN MEDIUM-DUTY SILT FENCE

(BLACK BAND)

Designed for use in Medium Duty Sensitive Areas

100' PRE-STAKED ROLLS OAK / HARDWOOD POSTS SPACING AT 6' CENTERS

- > 36" tall, non-woven spun-bond polyester fabric
- The continuous black band at the top of the fence, as well as a unique method of attachment (sandwiching the fabric between the wood post and a bonding strip) enhances the strength of the system
- Belt provides strong linear support & disperses weight between posts
- Superior filtration in slurry conditions Exceeds 96% filtration efficiency



#### WBSF<sup>™</sup> STANDARD Woven Belted Silt Fence (WBSF<sup>™</sup>) REINFORCED SILT FENCE

#### **NTPEP** Compliant



Structural Integrity – Stormwater Release – Sediment Retention

- > 36" tall, durable woven polypropylene geotextile that delivers consistent performance
- Internal belts used as attachment points allow fabric to hold maximum loads without additional reinforcement

#### Replacement for wire back silt fence

- Belts provide linear support to disperse weight of stormwater and sediment over the full system.
- Enhanced durability reduces cost associated with replacement and repairs



Master Rolls	500'	1000'
No Splices - faster install	✓	✓
May be used with <b>Metal Posts</b>	✓	✓
May be used with <b>Wood Posts</b>	✓	✓

	0	100' Long
4' Centers - Oak/Hardwood Posts	$\checkmark$	
6' Centers - Oak/Hardwood Posts		$\checkmark$



#### WBSF™ 2 STAGE Woven Belted Silt Fence (WBSF™) **REINFORCED SILT FENCE**

NTPEP Compliant Patent # US 8,747,027 B1

WBSF™ System **Storm Water** Four >350 lb. tensile strength belts woven into the fabric

Release Stage 2

**High Efficiency** Sediment Retention Stage 1

#### Part# WBSF2S

#### Structural Integrity – Stormwater Release – Sediment Retention

- Internal belts used as attachment points allow fabric to hold maximum loads without additional reinforcement - provide linear support to disperse weight of stormwater and sediment over the full system.
- > 36" tall, 2 Stage durable woven polypropylene geotextile that delivers consistent performance

#### Replacement for wire back silt fence

- > 2 Stage technology reduces the potential for overtopping and undermining:
  - Stage 1 Sediment retention (50 sieve, >80 gpm/ft<sup>2</sup> clear water flow)
  - Stage 2 Stormwater release (>300 gpm/ft<sup>2</sup> clear water flow)

Master Rolls	500'	1000'
No Splices - faster install	✓	✓
May be used with <b>Metal Posts</b>	✓	✓
May be used with <b>Wood Posts</b>	✓	✓

Pre-Assembled	48' Long	100' Long
4' Centers - Oak/Hardwood Posts	✓	
6' Centers - Oak/Hardwood Posts		✓



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#### WBSF<sup>™</sup> 2 STAGE COMBO WOVEN BELTED SILT FENCE (WBSF<sup>™</sup>) REINFORCED SILT FENCE

NTPEP Compliant Patent # US 8,747,027 B1



Combines 2-Stage silt fence with a high visibility delineation top in one fence. Installing one fence to do two jobs saves money!

Internal belts used as attachment points allow fabric to hold maximum loads without additional reinforcement - provide linear support to disperse weight of stormwater and sediment over the full system.

#### Replacement for wire back silt fence

- > 36" tall, 2 Stage durable woven polypropylene geotextile that delivers consistent performance
- > 2 Stage technology reduces the potential for overtopping and undermining:
  - Stage 1 Sediment retention (50 sieve, >80 gpm/ft<sup>2</sup> clear water flow)
  - Stage 2 Stormwater release (>300 gpm/ft<sup>2</sup> clear water flow)



Master Rolls	500'	1000'
No Splices - faster install	✓	✓
May be used with Metal Posts	✓	✓
May be used with Wood Posts	✓	✓
Pre-Assembled	48' Long	100' Long
4' Centers - Oak/Hardwood Posts	~	
6' Centers - Oak/Hardwood Posts		<ul> <li>✓</li> </ul>



# SILT FENCE OUTLET

Pre-assembled Silt Fence Outlet replaces

traditional dewatering outlets

Patent # US 12,060,690

A structurally enhanced device that can be used as a dewatering outlet incorporated into perimeter sediment barrier or as a stand-alone filter dam to dissipate velocity and retain sediment in concentrated stormwater flow across drainage ways.

- The Silt Fence Outlet offers a dual-purpose design using 2 Stage technology for greater sediment retention while still providing for controlled storm water release as sheet flow
  - > Upper Stage high visibility, high flow green mesh providing controlled storm water release.
  - > Lower Stage non-woven filter fabric for sediment retention and filtration of storm water.
- Compression tubes, filled with kiln dried wood chips and held in place with compression stakes, prevent undermining while contributing to system structural integrity, storm water control and sediment retention

Preassembled and sold as a kit to ensure quality control and consistency of installation Kit Includes:

- > 2-Stage vertical sheet preassembled with posts on 2' centers (14' long silt fence outlet)
- > Attached front water seal and rear scour guard, with sod staples
- > 3 compression tubes with 6 compression stakes
- > 4 bonding strips and hardware







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### HIGH VISIBILITY DELINEATION FENCE

Barrier Fence / Tree Save Part# BFG / BFO





### Structural Integrity – Durability

- Woven high-density polyethylene (HDPE) creates a more sustainable ultraviolet (UV) coloration and durable fabric
- Superior structural integrity due to unique method of attachment (sandwiching fabric between the post and a bonding strip)
- 4' x 100' fabric pre-staked using 60" posts & bonding strips
- > Available in **Orange** (Caution, warning, or danger)
- Available in Green (Water bodies and environmentally sensitive areas)

AVAILABLE IN PRE-STAKED 100 LINEAR FT ROLLS ON 8 FT CENTERS



## R100A FRAME & FILTER ASSEMBLY Round Base 60"

Patent # US 11,708,690



Round Base 60"

- Reusable high molecular weight polyethylene frame, replaceable filters
- ✓ Structural design for concentrated flow
- ✓ Fast, simple installation
- No failures due to stakes in uncompacted soil
- Consistent performance
- Practical, functional and economical

Structural Integrity – Stormwater Release – Sediment Retention





## R300B SPECIALTY ASSEMBLY

Frame and Filter Assembly Approved for DOT of

Maryland and Virginia Patent # US 11,708,690

#### Round Base 60"



- Reusable high molecular weight polyethylene frame, replaceable filters
- Structural design for concentrated flow
- Fast, simple installation
- No failures due to stakes in uncompacted soil
- Round Base 60"
- **Consistent performance**
- ✓ Practical, functional and economical

Structural Integrity – Stormwater Release – Sediment Retention

### **R300B - 2 Stage DOT Specialty Filter Approved for Maryland and Virginia**



- Superior sediment filtration in slurry conditions
- Stage 1 Sediment filtration (exceeds 96% efficiency)
- Stage 2 High flow fabric top for stormwater release
- High visibility top marks inlet location







Square Base 62" X 62"

- Reusable high molecular weight polyethylene frame, replaceable filters
- Structural design for concentrated flow
- ✓ Fast, simple installation
- No failures due to stakes in uncompacted soil
- Consistent performance
- / Practical, functional and economical

Structural Integrity – Stormwater Release – Sediment Retention





### S400B SPECIALTY ASSEMBLY

Frame and Filter Assembly Approved for DOT of Maryland and Virginia Square Base 62" X 62"

Patent # US 11,708,690



- Reusable high molecular weight polyethylene frame, replaceable filters
  - Structural design for concentrated flow
  - Fast, simple installation
  - No failures due to stakes in uncompacted soil

Square Base 62" X 62"

- **Consistent performance**
- ✓ Practical, functional and economical

Structural Integrity – Stormwater Release – Sediment Retention

### S400B - 2 Stage DOT Specialty Filter **Approved for DOT of Maryland and Virginia**



- Superior sediment filtration in slurry conditions
- Stage 1 Sediment filtration (exceeds 96% efficiency)
- Stage 2 High flow fabric top for stormwater release
- High visibility top marks inlet location



Stage 1

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### A700A FRAME & FILTER ASSEMBLY Rectangle Base 38" X 57"

Patent # US 11,708,690



Rectangle Base 38" X 57"

- Reusable high molecular weight polyethylene frame, replaceable filters
- Structural design for concentrated flow
- ✓ Fast, simple installation
- No failures due to stakes in uncompacted soil
- Consistent performance
- Practical, functional and economical





### A1000A FRAME & FILTER ASSEMBLY Square Base 36" X 36"

Patent # US 11,708,690



Square Base 36" X 36"

- Reusable high molecular weight polyethylene frame, replaceable filters
- Structural design for concentrated flow
- ✓ Fast, simple installation
- No failures due to stakes in uncompacted soil
- Consistent performance
- Practical, functional and economical





### A1100A FRAME & FILTER ASSEMBLY Square Base 48" X 48"



Square Base 48" X 48"

- Reusable high molecular weight polyethylene frame, replaceable filters
- Structural design for concentrated flow
- ✓ Fast, simple installation
- No failures due to stakes in uncompacted soil
- Consistent performance
- Practical, functional and economical

Structural Integrity – Stormwater Release – Sediment Retention



Two Replaceable Filter Options

### 2 STAGE DOT Filter

- > Superior sediment filtration in slurry conditions
- Stage 1 Sediment filtration (exceeds 96% efficiency)
- Stage 2 High flow fabric top for stormwater release
- > High visibility top marks inlet location



### **High Flow Filter**

- Clear water flow of >1100 gpm/ft<sup>2</sup>
- Effective when high flow of water expected to prevent flooding
- Keeps trash & floatables out of pipe system

Patent # US 11,708,690



# LPR500 FRAME & FILTER ASSEMBLY

Low Profile Rectangle 30" X 46" X 16"

Patent # US 11,708,690



- Reusable high molecular weight polyethylene frame, replaceable filters
- Structural design for concentrated flow
- Fast, simple installation
- No failures due to stakes in uncompacted soil

Low Profile for Non-sump use ✓ Rectangle 30" X 46" X 16"

- **Consistent performance**
- Practical, functional and economical

Structural Integrity – Stormwater Release – Sediment Retention

### LPR500A High Flow Filter ONLY



High Flow Mesh Frame size 30" x 46" x 16"

- Clear water flow of >1100 gpm/ft<sup>2</sup>
- Sediment filtration through rock bags
- Prevents flooding with high flow of water
- Keeps trash & floatables out of pipe system
- For non-sump conditions





### LPS600 FRAME & FILTER ASSEMBLY Low Profile Square 42" X 42" X 16"

Patent # US 11,708,690



Low Profile for Non-sump use Square 42" X 42" X 16"

- Reusable high molecular weight polyethylene frame, replaceable filters
- ✓ Structural design for concentrated flow
- ✓ Fast, simple installation
- No failures due to stakes in uncompacted soil
- ✓ Consistent performance
- ✓ Practical, functional and economical

Structural Integrity – Stormwater Release – Sediment Retention

### LPS600A High Flow Filter ONLY



High Flow Mesh Frame size 42" x 42" x 16"

- Clear water flow of >1100 gpm/ft<sup>2</sup>
- Sediment filtration through rock bags
- Prevents flooding with high flow of water
- Keeps trash & floatables out of pipe system
- For non-sump conditions





### A1200A FRAME & FILTER ASSEMBLY Round Base 38"

Patent # US 11,708,690



Round Base 38"

- Designed for smaller drains, such as yard inlets, golf course drains, landscape drains, beehive drains, and drywells that are 30" or less.
- Reusable high molecular weight polyethylene frame with replaceable filters.
- Consistent performance retaining sediment from concentrated flow.
- Can help prevent filling of drywells with sediment and leaves.
- > Fast, simple installation.

Structural Integrity – Stormwater Release – Sediment Retention





## PEDESTAL INLET WRAP

#### **Flexible Inlet Protection for Pedestal Top Inlets**







Internal grid provides structural support





"D" rings secure pedestal wrap to inlet

### 16'6" long to accommodate maximum 60" inlet diameter

### **Flexible Inlet Protection for Pedestal Top Inlets**

- Prevents trash and floatables from entering raised surface inlets while providing passage of stormwater into drainage system
- > Reusable, durable, lightweight design of high flow geotextile
- > Fast and simple installation wrap inlet and fasten belts with "D" rings
- Internal grid provides structural support
- Requires no stakes
- Can accommodate round or square pedestal top inlet

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# **SS 300 CURB INLET FILTER**

#### **Curb Inlet Protection**





Use multiple SS 300s for large inlet openings Create adjustable weir with ends containing sand or stone bags.

#### Kit Includes:

- SS 300 Curb Inlet Filter filled with pine straw
- 2 sandbag inserts
- Zip ties

(#57 stone / sand not included)



Single SS 300s for 5' inlet opening Use of center weir recommended

- Pine straw wrapped in high flow-high visibility polyester green mesh with pockets for sand / stone weighted bags on each end that can create a weir as needed
- Biodegradable core materials offer an environmentally friendly alternative to recycled rubber / wire materials that can pollute waterways
- Pine straw filling maintains shape and resists absorption of storm water / molding / compaction.
- Flexible, light weight for easy shipping, hauling and installation.

## **PIPE STOPPER**



#### **Pipe Inlet Protection**

Patent # US 8,277,646 B2

2 Stage

Filter

75% high flow

green mesh

25% nonwoven (>96% efficiency)

filter \*Specialty filter available for VA & MD

# Horizontal pipe device installed during construction prevents entry of sediment and floatables while allowing passage of stormwater



Friction fingers clip into HDPE, Concrete, or Metal Corrugated Pipe

Available plate sizes and filters				
Inside Dimension of Pipe	High Flow	2 Stage 50/50 Filter	2 Stage Filter	*2 Stage Specialty Filter VA & MD
12"			•	•
15"	•		•	• //
18"	•	•	•	•// •
24"	•	•	•	•
30"	•	•	•	•
36"				



High Flow Filter

100% high flow green mesh



2 Stage 50/50 Filter

50% high flow green mesh 50% nonwoven (>96% efficiency) filter



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- Reusable HDPE frame with replaceable filter options
- Fast, easy installation and removal
- Designed for inlet side of pipe only



# TRAVEL LANE WATTLE

**High Visibility Sediment Log** 

#### Curb inlet protection, slope erosion control & stream protection







- Reusable sediment control device
- Pine straw wrapped in high flow-high visibility polyester green mesh
- Biodegradable natural core offers an environmentally safe alternative to recycled rubber / wire materials that can pollute our waterways
- Pine straw core prevents mold and compaction often associated with traditional wheat straw wattles that can lead to ponding effects
- Light weight and easily moved to allow traffic bypass



# CHIP10 WATTLE

Weighted Chip Wattle

### CHIP10-WB



### CHIP10–GR



#### Nominal 9 inches diameter X 10 feet in length

### **Velocity dissipation and sediment retention**

- Filled with kiln dried pine chips Biodegradable natural core offers an environmentally safe alternative to recycled rubber / wire materials that can pollute our waterways
- Dry weight nominal 58 lbs (weigh less for shipment and installation)
- Wet weight nominal 145 lbs (stays in place)
- Kiln dried chips expand when wet. (keeps shape)
- Option of two durable sleeves:
  - High visibility green polypropylene mesh
  - Black woven geotextile fabric
- Convenient handles for easy lifting



# **COMPRESSION TUBE**

Weighted Chip Wattle



Two compression stakes Included with each compression tube.

### Nominal 5 feet in length by 9 inches in diameter





### Velocity dissipation and sediment retention

- Polypropylene sleeve filled with kiln dried pine chips (biodegradable / weed and seed free)
- > Environmentally friendly alternative to recycled rubber / wire materials
- > Durable sleeve with handles for easy application and removal
- Compression stakes apply downward pressure to prevent undermining
- > Dry weight nominal 30 lbs (weigh less for shipping and installation)
- More than doubles weight when wet (stays in place)
- Kiln dried chips expand when wet (keeps shape)



## HIGH VELOCITY DITCH CHECK Pre-assembled Check Dam

Patent # US 12,060,690



HVDC 24 for flat bottom, trapezoidal ditch

Temporary barrier slows velocity of channel stormwater and facilitates controlled stormwater release through the fabric onto the rear scour guard

- 2 options prefabricated and contoured to angles of ditch slopes:
  - HVDC 24– 24' wide with 24" overflow for flat bottom, trapezoidal ditch
  - HVDC 14 –14' wide with 16" overflow for V shaped ditch
- Preassembled and sold as a kit to ensure quality control and consistency of installation:
  - Velocity restrictor sheet prefabricated with posts
  - Attached front water seal and rear scour guard
  - > Additional rear scour guard extension
  - Compression tubes with compression stakes
- Velocity restrictor sheet of green mesh allows floatables to contribute to filtration of stormwater
- Attached front water seal and pine chip filled compression tubes held in place with compression stakes prevent undermining
- Rear scour guard prevents scouring and undermining



HVDC 14 for V shaped ditch



Rear scour guard



Natural floatables contribute to filtration on green mesh of velocity restrictor sheet

DITCH CHE

More effective, less costly, and less maintenance than traditional rock check dam



## LOW VELOCITY DITCH CHECK PRE-ASSEMBLED CHECK DAM



- Designed as a temporary barrier to slow the velocity of channel stormwater
- Resists undermining associated with traditional wattles used in this capacity
- > A multi-component system consisting of:
  - > a durable woven geotextile sleeve filled with kiln dried pine chips
  - an underlying attached front water seal and rear scour guard to prevent undermining
  - > compression stakes and sod staples to maintain placement
- Preassembled and sold as a kit to ensure quality control and ease as well as consistency of installation
- More effective, lower cost, and less maintenance than traditional LOW VELOCITY rock check dams



## **BOTTOM DRAIN ATTACHMENT ASSEMBLY**

BDA 500 Assembly

## Creates an Enclosed Stormwater Filter System



12" HDPE pipe and elbows are not sold by Silt Saver.

- BDA Assembly creates a tiered temporary retention system
- May be used for construction sites that do not have space for larger retention ponds
- May be used individually or connected in series for linear job sites such as pipelines or transmission lines







### SLOPE DRAIN BAG Sediment Collection



### Structural Integrity – Stormwater Release – Sediment Retention

> Attaches to temporary slope drain for sediment collection

- Designed to fit 12" or smaller HDPE slope drainpipe.
- Built in emergency stormwater overflow, reduces force on the bag and slope drain system
- D-ring straps, stake loops and 7 stakes are used to secure the bag in place
- For use on construction sites, power plants, dredging areas and more to protect surrounding streams, property, and storm sewers



## UNDER GRATE SEDIMENT BAG

#### **Sediment Collection**



#### **Available Sizes**

18"x36", 21"x29", 24"x24", 24"x36", 24"x48", 27"x27", 28"x36", 36"x36", 36"x48", 40"x55"

### Designed for under grate sediment collection

- Filters sediment and construction debris out of stormwater to reduce costly basin and pipe system cleaning
- > 40 sieve woven polypropylene geotextile allows water filtration and sediment retention
- Built in overflow ports prevent flooding during rain events
- > UV resistant, durable and reusable
- Handles and load supporting harness for easy installation / removal / cleaning and replacement
- Hangs unobtrusively under stormwater grates does not impede traffic above
- High visibility green edging is easily seen by workers and inspectors to show sediment protection in place













### **Available Sizes 8 oz** - 6' x 6' / 10' x 15' / 15' x 15'

Structural Integrity – Stormwater Release – Sediment Retention

A high efficiency, high pressure filtration (pump) bag designed to collect sediment from collected water in construction site dewatering applications and pipelines

Custom designed neck with D-ring tie straps provides secure hose attachment to a variety of pump hose sizes up to 6"

Protects surrounding streams, property, and storm sewers

Prevents erosion



# UNDER GRATE CITY BAG

**Stormwater Grate Trash Collection** 



#### Hangs under stormwater grates to collect trash / floatables from parking lots and city streets

### **Available Sizes**

12"x48", 21"X29", 24"X 24", 24"X48", 27"X27", 28"x36", 36"X36", 40"X55"

- Perfect for use during festivals / parades / street parties to catch floatables and street trash preventing debris from entering stormwater drains
- Reusable with integrated handles for easy installation, removal, cleaning and replacement
- > High flow mesh (9x9 scrim, clear water flow of >1100 gpm/ft<sup>2</sup>) allows water filtration and overflow ports prevent flooding during heavy rain events
- > Hangs unobtrusively under storm water grate does not impede traffic





### **Construction Entry / Exit**

Part# D-600





To be used under stone as construction entrance/exit

Designed for use during construction in entry / exit

>Woven 200 lb. geotextile fabric

> Creates a stabilizing layer between gravel and underlying dirt

Reduces the amount of gravel required for installation and maintenance resulting in reduction of labor and overall cost



Webinar Program

### Silt Saver offers monthly webinars on our performancebased erosion and sediment control products.

Join us to learn about Silt Saver products that use innovative best management practices to solve traditional erosion and sediment control problems.



#### Webinar 1

#### Performance Based Silt Fence Products

Syllabus:

- Illustration of known issues with traditional silt fence systems
- Demonstration of WBSF technology and how it provides reinforced silt fence with enhanced structural integrity
- Explanation of 2-Stage technology and its application to create a unique silt fence with stormwater release
- Discussion of BSRF its superior balance of sediment retention and structural integrity
- Discussion of Silt Fence Outlet, High Velocity Ditch Checks and other innovative BMP products.



#### Webinar 2

#### **Reusable Inlet Protection Frame and Filters**

Syllabus:

- Illustration of known issues with traditional inlet protection BMPs.
- Explanation of 2-Stage technology as it is applied to inlet protection
- Installation and application of Silt Saver's inlet protection frame & filters to solve sediment control issues
- Overview of other Silt Saver erosion and sediment control products to complete your site management
- Discussion of Curb Inlet protection, wattles and other innovative BMP products.

PDH Available: A Certificate of Completion is available upon request. Please check your local requirements for PDH eligibility.

### Register Now! https://siltsaver.com/events/