filtrexx®
SUSTAINABLE TECHNOLOGIES

SILTSOXX®

COMPOST FILTER SOCK

ORIGINAL
Standard construction site conditions

EXTREME
Hard surfaces, rugged terrain, high traffic

NATURAL ORIGINAL
Short-term biodegradable

NATURAL PLUS
Long-term biodegradable

Filtrexx SiltSoxx® is the quickest, easiest and most cost effective solution for sediment control.

Easily installed for a variety of construction applications, Filtrexx SiltSoxx reduces the labor cost required for installation and maintenance, while delivering optimal performance.

FILTREXX SILTSOXX® MESH SPECS

Product Name	SiltSoxx ORIGINAL	SiltSoxx EXTREME	SiltSoxx NATURAL ORIGINAL	SiltSoxx NATURAL PLUS
Mesh Material Type	Multi-Filament Polypropylene (MFPP)	Multi-Filament Polypropylene (MFPP)	All Natural Biodegradable Cotton Fiber	All Natural Biodegradable Wood Fiber
Uses	standard applications	hard surfaces; rugged sites; high traffic	leave on site; short-term	leave on site; long-term
Mesh Opening Size	1/8"	1/16"	1/8"	1/8"
Diameters	5", 8", 12", 18", 24"	8", 12"	5", 8", 12"	5", 8", 12"
Functional Longevity/ Project Duration[1]	up to 5 yr	up to 5 yr	up to 12 mo	up to 18 mo
Tensile Strength (ASTM D4595)[2]	MD: 670 lbs TD: 423 lbs	MD: 1062 lbs TD: 797 lbs	MD: 193 lbs TD: 158 lbs	MD: 210 lbs TD: 289 lbs
Fill Material	Locally sourced FilterMedia	Locally sourced FilterMedia	Locally sourced FilterMedia	Locally sourced FilterMedia
Mesh Color	green/thin black stripe; tan (5" & 8" only)	green/black thick stripe; orange	beige	off-white

NEW
See TechLink #3342 for details

[1]Functional longevity ranges are estimates only. Site specific environmental conditions may result in significantly shorter or longer time periods.
[2]Tensile Strength is based on 12" diameter using ATSM D4595. See Filtrexx TechLink #3342 for full tensile strength testing.

SiltSoxx **ORIGINAL**
Our SiltSoxx ORIGINAL strength mesh is the most widely recognized and used product in the industry. Available in green/black stripe or tan.

SiltSoxx **EXTREME**
Our most durable mesh material, SiltSoxx EXTREME is specially designed to withstand the harsh surface conditions of asphalt and concrete. With an extra tough, wear & tear resistant mesh, this product is perfect for urban construction and/or when dealing with rugged conditions. Available in green/black stripe or solid orange for safety visibility.

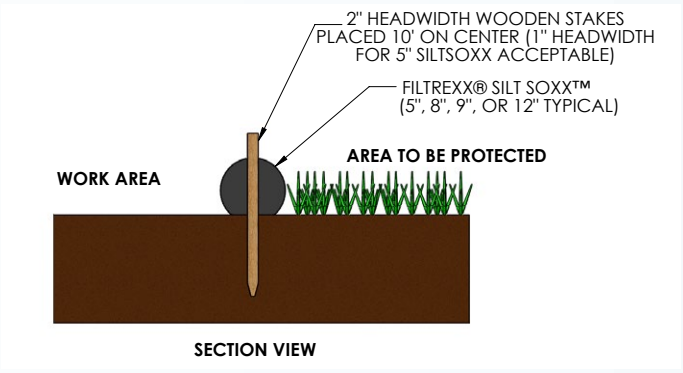
SiltSoxx **NATURAL**
This line of mesh is 100% natural and biodegradable, eliminating the need for field removal. Leave in place for ongoing, natural protection. Meets applicable federal/state specifications for natural and biodegradable materials.

SiltSoxx **NATURAL ORIGINAL:** Cotton fiber; functional field longevity up to 12 months.
SiltSoxx **NATURAL PLUS:** Wood fiber; functional field longevity up to 18 months.

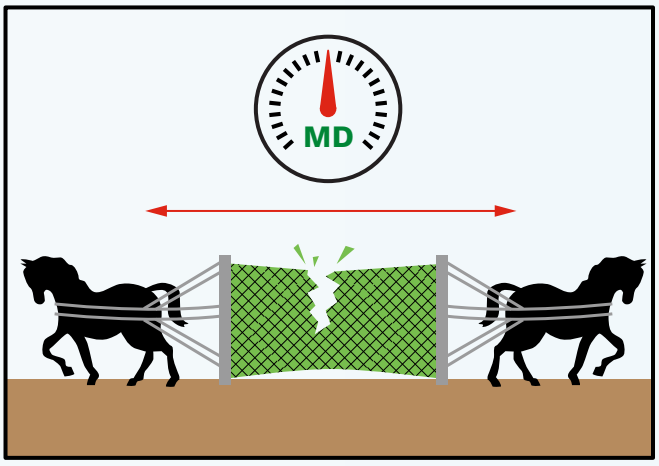
View the Filtrexx Catalog for full item listings – available through distribution nationwide.

DESIGN DRAWINGS

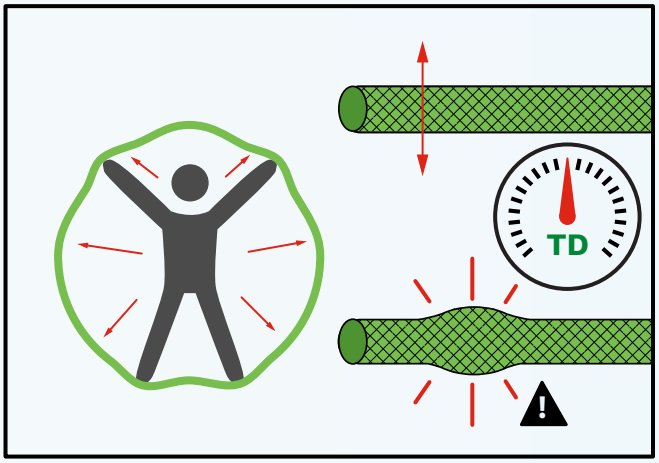
Refer to Design Specifications for complete application, design, installation, maintenance, and removal documentation at **www.filtrexx.com/specs**



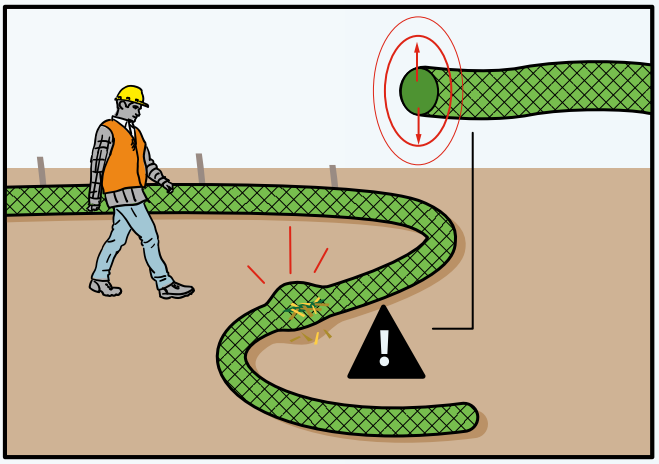
ABOUT MESH TENSILE STRENGTH



Tensile Strength: Machine Direction



Tensile Strength: Transverse Direction



Tensile Strength: Transverse Direction
Affects the filling process and maintenance after installation.

What is tensile strength?
Tensile strength is the amount of force needed to break a material when stretching it apart.

How is tensile strength measured?
Tensile strength is measured in units of pounds per square inch (cross sectional area). In the case when the material is very thin, like film and fabric, tensile strength is measured in pounds only.

Filtrexx now uses the test method ASTM D4595 – *Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method*. This test method is the most accurate for testing loose knit materials used for compost sock mesh. This test method measures both machine direction (MD) and transverse direction (TD). MD measures the strength and resistance of the mesh from breaking when pulled lengthwise. TD measures the strength and resistance of the mesh from breaking when pulled widthwise.

Why is tensile strength important?
Poor tensile strength can lead to compost filter sock mesh rupturing or even completely falling apart when removed from a pallet, moved from one location to another, during the installation process, or even once storm water flow contacts the product. MD affects the filling, palletizing, and installation process of compost filter sock. TD affects the filling process and maintenance after installation of compost filter sock.

Filtrexx has engineered a line of mesh products with various tensile strengths to meet specific applications and site conditions. To learn more about tensile strength and our research, read Filtrexx TechLink #3342, Tensile Strength Testing for Filtrexx Mesh Materials.

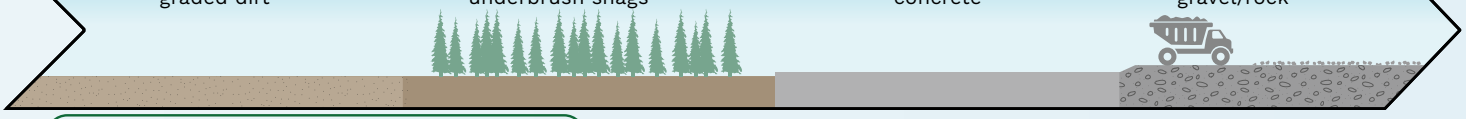
MESH SELECTION GUIDE

Trying to pick the right mesh for your job? Our Mesh Selection Guide below helps you determine the best fit. Or, contact us at info@filtrexx.com for recommendations or to request samples.

SURFACE CONDITIONS

Smooth, no snags ... **Hard surfaces with sharp edges**

Smooth, graded dirt	Forested areas with underbrush snags	Asphalt or concrete	Drive entrances or gravel/rock

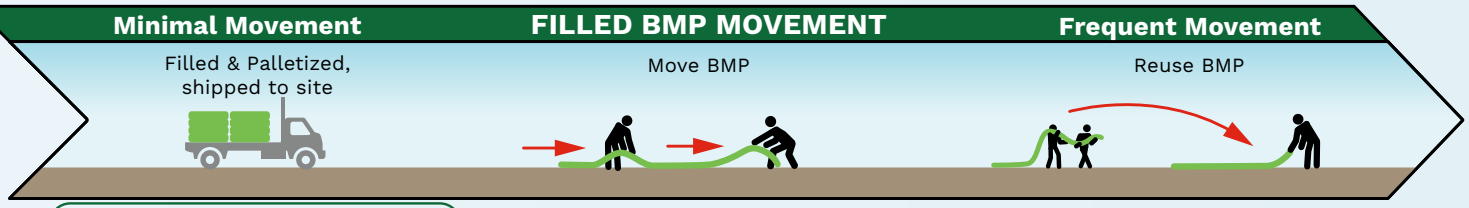


- NATURAL ORIGINAL
- NATURAL PLUS
- ORIGINAL
- EXTREME

FILLED BMP MOVEMENT

Minimal Movement ... **Frequent Movement**

Filled & Palletized, shipped to site	Move BMP	Reuse BMP



- NATURAL ORIGINAL
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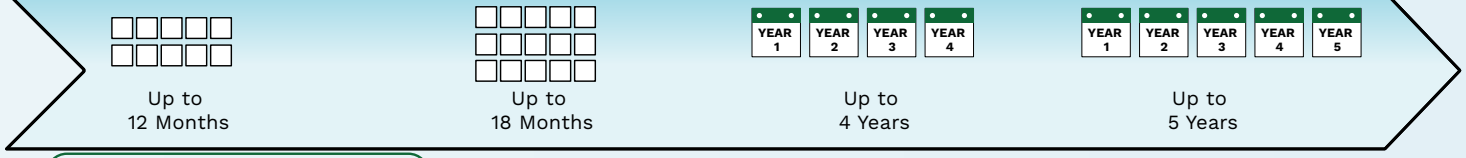
PROJECT LENGTH

Short-Term ... **Long-Term**

Up to 12 Months	Up to 18 Months	Up to 4 Years	Up to 5 Years



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[1]Functional longevity ranges are estimates only. Site specific environmental conditions may result in significantly shorter or longer time periods.

COST/BUDGET

Low Budget ... **High Budget**

- NATURAL ORIGINAL
- NATURAL PLUS
- ORIGINAL
- EXTREME

BMP COMPARISON: TOTAL SOLIDS (TS) REMOVAL EFFICIENCY

Sediment Control Device	Product Size	Removal Efficiency*
Filtrexx SiltSoxx[1]	**12 in**	**97%**
Filtrexx SiltSoxx[1]	**8 in**	**82%**
Silt fence[2]	24 in	72%
Straw wattle[1]	20 in	70%
Tire-chip wattle[1]	9.5 in	69%
Off-spec filter sock[1]	12 in	66%
Rock/gravel bag[3]	N/A	16%

The performance difference between compost filter socks that adhere to federal and state specifications for mesh and media versus those that do not meet these specifications is quite substantial.

Scientific research shows that 8-inch SiltSoxx performs better than 12-inch off-spec filter sock, generating 43% less tons/acre of sediment[1], underscoring the importance of using the proper media and mesh. Filtrexx® FilterMedia™ is certified to meet the necessary flow-through rates specified by both the USEPA and most state regulators.

Sources:
[1]Data from TRI-Environmental, ASTM D6459. See Filtrexx TechLink #3333. [2]Silt fence data from San Diego State University, Modified ASTM D6459. See Filtrexx TechLink #3331. [3]Rock/gravel bag data from Soil Control Lab, ASTM D3977-97C. See Filtrexx TechLink #3332. *Removal efficiency performance may vary under conditions different from those tested and reported here.

Failures of these BMPs require regular maintenance, extra costs and fees.

Silt fence failures such as this require regular maintenance, contributing to a much higher overall project cost.

More staking on straw wattles creates more low points, which are more likely to overtop.

Devices with low flow-through rate, such as off-spec filter sock, overtop faster due to increased ponding & hydraulic pressure behind the device.

Filtrexx SiltSoxx® are in compliance with most state & federal agencies including:

US Army Corps of Engineers

USDA NRCS

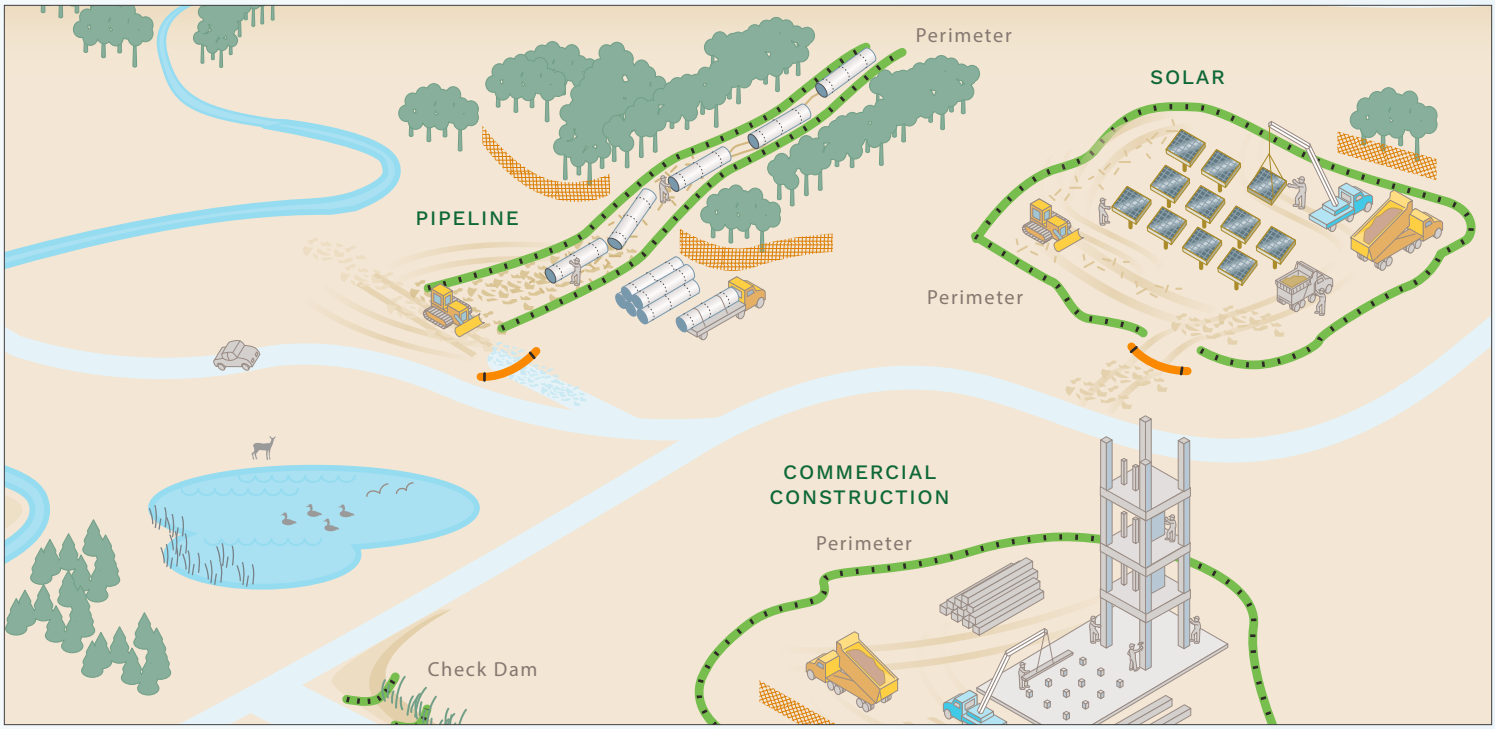
Made in USA

USDA CERTIFIED BIOBASED PRODUCT PRODUCT 100%

Use Filtrexx SiltSoxx® for a variety of applications and industries

FILTERS SEDIMENT

ALL NATURAL OPTIONS



APPLICATIONS

- PERIMETER CONTROL
- INLET PROTECTION
- CHECK DAM
- SLOPES
- RUNOFF DIVERSION

INDUSTRIES

- COMMERCIAL CONSTRUCTION
- HOMEBUILDING
- OIL & GAS
- PIPELINES
- POWER & UTILITY
- SOLAR & WIND

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ASP Enterprises | Bowman Construction Supply Inc. | Quick Supply Co. | Cascade GEOSYNTHETICS

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SOLUTIONS WE SUPPLY

GEOSYNTHETICS
Filter Fabrics
Stabilization Fabrics
Geogrids
- Road Grids
- Wall Grids
- Slope Stabilization

Specialty Fabrics
Composite Geomembranes
- GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

SEDIMENT CONTROL
Inlet Protection
- Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks
- Triangle Silt Dike
- GeoRidge

Perimeter Protection
- High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment
- Polymer-Based & Natural Flocculants

Sediment Basin Skimmers
Dewatering Bags
Trackout Control
- FODS
- Rumble Grates

Turbidity Curtains

EROSION CONTROL
Basic Hydraulically Applied Mulches
- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically Applied Products
- BFM
- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets
- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets
- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs
- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- Grout-Filled Geotextile Mats

Vegetation Establishment
- Native Seed & Turf Seed
- Fertilizers
- Organic Soil Additives
- Stratavault Soil Cells

STORMWATER MANAGEMENT
Water Quality
- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media
- Hydrodynamic Separators
- Stratavault

Water Quantity
- Modular Underground Storage Systems
- Chamber Detention Systems

Drainage
- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

Inlet Structures
- PVC
- Drain Basins, In-Line Drains
- Landscape

Permeable Pavers
- Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

SPECIALTY
Natural & Synthetic Coir Fiber Logs
Vegetated Reinforced Soil Slopes
Soil Anchors
Root Barrier System
AquaBlok
Muscle Wall

We are full line distributors of construction materials for all project types. Contact us for assistance with a project. From specification and development to installation and completion, we're here to help with all of your site solution needs.

GEOSYNTHETICS | EROSION CONTROL | STORMWATER MANAGEMENT
SEDIMENT CONTROL | REVEGETATION & SOIL AMENDMENTS