## **SWPPP Cut Sheet** Last Updated: 7-1-97

Section 1: Erosion and Sediment Control - Construction Activities

1.1 Filtrexx SiltSoxx<sup>TM</sup> Sediment & Perimeter Control Technology

PURPOSE & DESCRIPTION

Filtrexx SitSoxx<sup>IM</sup> are a three-dimensional tubular sediment control and storm water runoff filtration device typically used for perimeter control of sediment and other soluble pollutants (such as phosphorus and petroleum hydrocarbons), on and around construction activities.

- Filtrexx SiltSoxx are to be installed down slope of any disturbed area requiring erosion and sediment control and filtration of soluble pollutants from ranoff. SiltSoxx<sup>Tot</sup> are effective when installed perpendicular to sheet or low concentrated flow. Acceptable applications include: Site perimeters
- Above and below disurbed areas subject to sheet runoff, interrill and rill erosion
- Above and below exposed and erodable slopes
- Around area drains or inlets located in a 'sump' On compacted soits where trenching of sitt fence is difficult or impossible
- Around sensitive trees where trenching of silt fence is not beneficial for tree survival or may unnecessarily disturb established vegetation.
- On frozen ground where trenching of silt fence is impossible. On paved surfaces where trenching of silt fence is impossible.

INSTALLATION

- 1. SiltSoxx<sup>me</sup> used for perimeter control of sediment and soluble pollutants in storm runoff shall meet Filtrexx Soxx<sup>me</sup> Material Specifications and use
- Certified Filtrexx FilterMedia 114 Contractor is required to be Filtrexx Certified<sup>TM</sup> as determined by Filtrexx International, LLC (440-926-2607 or visit website at www.filtrexx.com). Certification shall be considered current if appropriate identification is shown during time of bid or at time of application (current listing can be found
- at www.filtrexx.com). Look for the Filtrexx Certified M Seal. SiltSoxx<sup>ma</sup> will be placed at locations indicated on plans as directed by the Engineer.
- SiltSoxx should be installed parallel to the base of the slope or other disturbed area. In extreme conditions (i.e., 2:1 slopes), a second SiltSoxx M shall be constructed at the top of the slope. 5. Stakes shall be installed through the middle of the SiltSoxx<sup>ne</sup> on 10 ft (3m) centers, using 2 in (50mm) by 2 in (50mm) by 3 ft (1m) wooden stakes. In the event staking is not possible, i.e., when SiltSoxx\*\*\* are used on pavement, heavy concrete blocks shall be used behind the SiltSoxx\*\*\* to help
- Staking depth for sand and silt loam soils shall be 12 in (300mm), and 8 in (200mm) for clay soils. Loose compost may be backfilled along the upslope side of the SiltSoxx<sup>101</sup>, filling the seam between the soil surface and the device, improving filtration
- and sediment retention. If the SiltSoxx to be left as a permanent filter or part of the natural landscape, it may be seeded at time of installation for establishment of
- permanent vegetation. The Engineer will specify seed requirements. Filtrexx SiltSoxx<sup>TM</sup> are not to be used in perennial, ephemeral, or intermittent streams. See design drawing schematic for correct Filtrexx SiltSoxx<sup>TM</sup> installation (Figure 1.1).

Open Throat Gutters - Curb Opening Size

HROME PLATED FRAMING FOR HIGH SALT EXPOSURE

FX: Standard Woven Bag FX FX-S

PC: Post Construction Bag PC PC-S

PC+: PC Bag w/ MyCelx PCP PCP-5

L: IDOT Non-Woven Bag IL IL-S

SELECT YOUR FILTER BAG PART NUMBER

FX+: Woven w/ MyCeix FXP

FXO: Woven w/ Oil Boom FXO

L: Litter and Leaf Bag

Up to 4' (1 Filter and Mounting Hardware)

Between 4' and 8' (2 Filters and Mounting Hardware)

Between 8' and 12' (3 Filters and Mounting Hardware)

Between 12' and 16' (4 Filters and Mounting Hardware)

TAINLESS STEEL FRAMING FOR HIGH SALT AND/OR CHEMICAL EXPOSURE

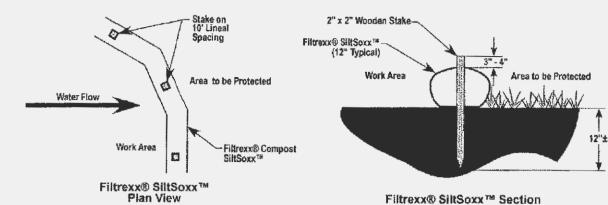
INSPECTION and MAINTENANCE

stabilize during rainfall/runoff events.

Routine inspection should be conducted within 24 hrs of a runoff event or as designated by the regulating authority. SiltSoxx and should be regularly inspected to make sure they maintain their shape and are producing adequate hydraulic flow-through. If ponding becomes excessive, additional SiltSoxx<sup>rat</sup> may be required to reduce effective slope length or sediment removal may be necessary. SiltSoxx<sup>rat</sup> shall be inspected until area above has been permanently stabilized and construction activity has ceased

- The Contractor shall maintain the SiltSoxx to in a functional condition at all times and it shall be routinely inspected If the SiltSoxx That has been damaged, it shall be repaired, or replaced if beyond repair.
- 3. The Contractor shall remove sediment at the base of the upslope side of the SiltSoxx<sup>m4</sup> when accumulation has reached 1/2 of the effective height of the SittSoxx<sup>Tot</sup>, or as directed by the Engineer. Alternatively, a new SittSoxx<sup>Tot</sup> can be placed on top of and slightly behind the original one creating more sediment storage capacity without soil disturbance. . SiltSoxx of shall be maintained until disturbed area above the device has been permanently stabilized and construction activity has ceased.
- 5. The FilterMedia<sup>TM</sup> will be dispersed on site once disturbed area has been permanently stabilized, construction activity has ceased, or as determined by
- 6. For long-term sediment and pollution control applications, SiltSoxx and be seeded at the time of installation to create a vegetative filtering system for prolonged and increased filtration of sediment and soluble poliutants (contained vegetative filter strip). The appropriate seed mix shall be determined

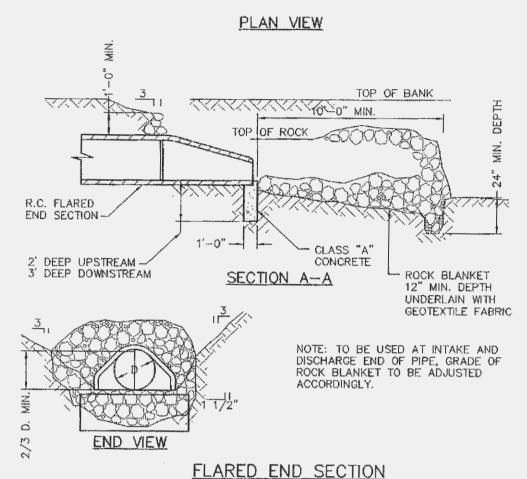
## Filtrexx® SiltSoxx™ Details



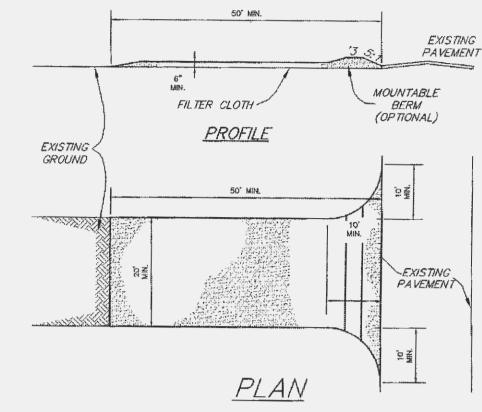
- 1. All material to meet Filtrexx® specifications. 2. SiltSoxx™ compostijsoil/rock/seed fill to meet application
- SitSoxx™ depicted is for minimum slopes. Greater slopes may require larger socks per the Engineer.
- 4. Compost material to be dispersed on site, as determined by

Slope Percent	Maximum Slope Length Above SiltSoxx <sup>in</sup> in Feet (meters)*				
	8 in (200 mm) SiltSoxx <sup>th</sup> 7 in (175 mm)**	12 in (300 mm) SiltSoxx <sup>tn</sup> 10 in (250 mm) **	18 in (450 mm) SiltSoxx <sup>tm</sup> 15 in (375 mm) **	24 in (600mm) SittSoxx <sup>tm</sup> 20 in (500 mm) **	32 in (800mm) SiltSoxx <sup>tm</sup> 26 in (650 mm) ***
5	400 (120)	500 (150)	550 (165)	650 (200)	750 (225)
10	200 (60)	250 (75)	300 (90)	400 (120)	590 (150)
15	140 (40)	170 (50)	200 (60)	325 (100)	450 (140)
20	100 (30)	125 (38)	140 (42)	260 (80)	400 (120)
25	80 (24)	100 (30)	110 (33)	200 (60)	275 (85)
30	60 (18)	75 (23)	90 (27)	130 (40)	200 (60)
35	60 (18)	75 (23)	80 (24)	115 (35)	150 (45)
40	60 (18)	75 (23)	80 (24)	100 (30)	125 (38)
45	40 (12)	50 (15)	60 (18)	80 (24)	100 (30)
50	40 (12)	50 (15)	55 (17)	65 (20)	75 (23)

\*Based on a failure point of 36 in (0.9 m) super silt fence (wire reinforced) at 1000 ft (303 m) of slope, watershed width equivalent to receiving length of sediment control device, 1 in/24 hr (25 mm/24 hr) rain event. \*\*Effective height of Silt Soxx\*\* after installation and with constant head from runoff as determined by Ohio State University.



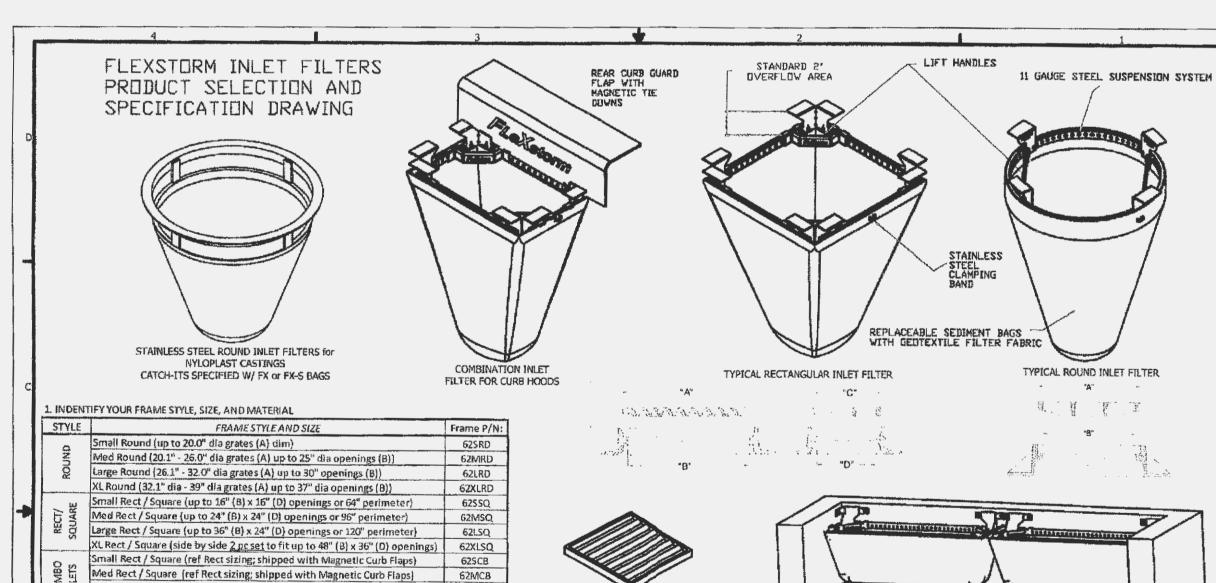
## STABILIZED CONSTRUCTION ENTRANCE



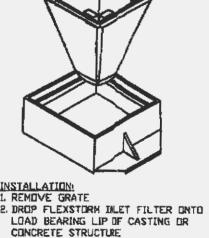
CONSTRUCTION SPECIFICATIONS

- 1. Stone Size Use 2" stone, or reclaimed or recycled concrete equivalent.
- 2. Length As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
- 3. Thickness Not less than six (6) inches.
- 4. Width Twenty (20) foot minimum, but not less than the full width at points where ingress or egress
- 5. Filter Cloth Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
- 6. Surface Water All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
- 7. Maintenance The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights—of—way. This may require periodic top dressing with additional stone as
- conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights—of—way must be removed immediately. 8. Washing — Wheels shall be cleaned to remove sediment prior to entrance onto public rights—of—way.
- When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device. 9. Periodic inspection and needed maintenance shall be provided after each rain.

10. If a water source is not available, a water truck will be provided for wash down operations.



Large Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps) XL Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps) 62XLCB 12" diameter Nyloplast castings (Stainless Steel Framing standard) 6212NY 15" dlameter Nyloplast castings (Stainless Steel Framing standard) 6215NY 18" dlameter Nyloplast castings (Stainless Steel Framing standard) 6218NY 24" diameter Nyloplast castings (Stainless Steel Framing standard) 6224NY 10" dlameter Nyloplast castings (Stainless Steel Framing standard) 6230NY 62WM3 62VVM4 UPGRADED FRAMING MATERIAL OPTIONS (STANDARD IS ZINC PLATED) SUFFIX (22" depth) (12" depth) Clean Water Flow Min A.O.S.



WALL MOUNT INLET FILTERS FOR OPEN THROAT GUTTERS SPECIFICATIONS FOR STANDARD BAGS BY NOMINAL SIZE Storage (CuFt) (Woven) Constr) Woven) Small 1.6 1.2 0.8 0.9 66 155 Medium 2.1 1.8 1.2 1.3 96 185 
 Large
 3.8
 2.2
 1.5
 1.6
 120
 209

 Xi.
 4.2
 3.6
 2.4
 2.6
 192
 370
 \* PC filter bag at 50% max adsorption capacity \*\* PC filter bag at 50% capacity and MyCelx skimmer at 100% capacity

3. REPLACE GRATE 3. CREATE YOUR FLEXSTORM INLET FILTER PART NUMBER 6225Q Frame P/N from Filter Bag P/N Framing

ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC DISTRIBUTED BY ADS WWW.INLETFILTERS.COM (866) 287-8655 PH (630) 355-3477 FX INFU@INLETFILTERS.COM FLEXSTORM SPECS

Filtered Flow Rate at 50% Max \* PC Oil \*\*PCP Oil

Retent Retent

(Oz) (Oz)

SHEET 1 OF 1

FLEXSTORM INLET FILTER Installation Instructions:

. Remove the grate from the casting of concrete drainage structure. 2. Clean the ledge (lip) of the casting frame or drainage structure to ensure

it is free of stone and dirt. 3. Drop in the FLEXSTORM Inlet Fifter through the clear opening and be sure the suspension hangers rest firmly on the inside ledge (lip) of the casting. 4. Replace the grate and confirm it is elevated no more than 1/8", which is the thickness of the steel hangers.

Frequency of Inspections:

1. Construction site inspection should occur following each 1/2" or more rain

2. Post Construction inspections should occur three times per year (every four months) in greas with mild year round rainfall and four times per year (every three months Feb-Nov) in areas with summer rains before and after the Industrial application site inspections (loading ramps, wash racks.

maintenance facilities) should occur on a regularly scheduled basis no less than three times per year.

<u>Maintenance Guidelines</u>

I. Empty the sediment bag if more than half filled with sediment and debris, or as directed by the Engineer. 2. Remove the grate, engage the lifting bars or handles with the FLEXSTORM Removal Tool, and lift from the drainage structure. 3. Dispose of the sediment or debris as directed by the Engineer or

4. As an alternative, an industrial vacuum may be used to collect the accumulated sediment. 5. Remove any caked on silt from the sediment bag and reverse flush the

bog with medium spray for optimal filtration. 6. Replace the bag if torn or punctured to 1/2 diameter or greater on the lower half of the bag. 7. Post Construction PC Bags maint: At 50% saturation, the average 2' x 2'

Adsorb-it lined PC filter will retain approx 75 oz (4.2lbs) of oil and should be serviced or replaced. It can be centrifuged or passed through a wringer to recover the oils, and the fabric reused with 86% to 90% efficacy. It may also be recycled for its fuel value through waste to energy incineration. 8. MyCelx Skimmer Pouches: The skimmers start yellow in color and will gradually turn brown as they become saturated, indicating time for replacement. Each MyCelx skimmer pouch will absorb approximately 89 OZ

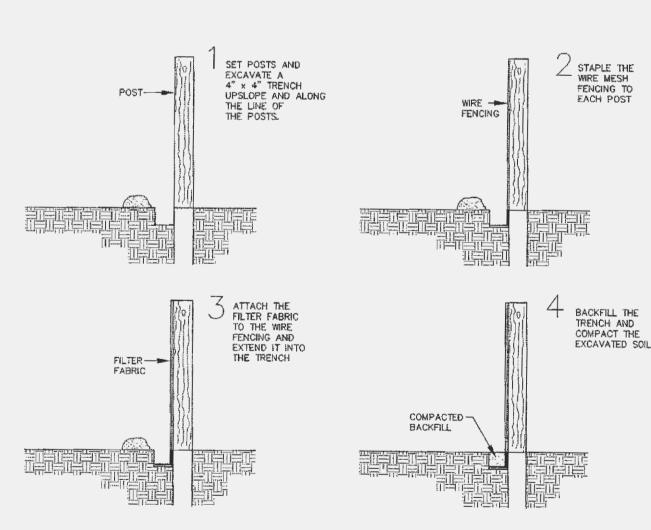
9. Dispose of all oil contaminated products in accordance with EPA

Maintenance Contract in accordance with EPA guidelines.

Sediment Bag Replacement:

(5lbs) of all before requiring replacement.

Remove the bag by loosening or cutting off the clamping band. 2. Take the new sediment bag, which is equipped with a stainless steel worm drive clamping band, and use a screw driver to tighten the bag around the 3. Ensure the bag is secure and that there is no slack around the perimeter



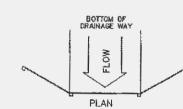
1. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

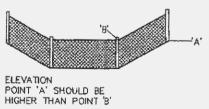
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH

APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.

4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.





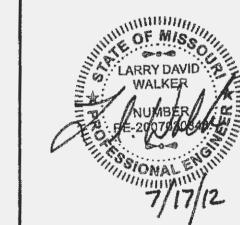
SILTATION FENCE DETAIL

DETAIL FROM MANUFACTURER'S WEBSITE

5/21/2012 - SUBMITTAL 6/14/2012 - CITY COMMENTS 7/17/2012 - CITY COMMENTS



ereby specify that the documents intended to be authenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or



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