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SWPPP Cut Sheet Last Updated: 1-1-08 Section 1: Erosion and Sediment Control – Construction Activities 1.1 Filtrexx SiltSoxx™ Sediment & Perimeter Control Technology PURPOSE & DESCRIPTION sediment and other soluble pollutants (such as phosphorus and petroleum hydrocarbons), on and around construction activities APPLICATION Filtrexx SitSoxx<sup>1</sup> are to be installed down slope of any disturbed area requiring erosion and sediment control and filtration of soluble pollutants fr runoff. SiltSoxx<sup>10</sup> are effective when installed perpendicular to sheet or low concentrated flow. Acceptable applications include: Site perimeters
Site perimeters
Above and below disturbed 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 soils where trenching of silt 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 sill fence is impossible.
 INSTALLATION
 Sillsoxx<sup>1</sup> used for perimeter control of sediment and soluble pollutants in storm runoff shall meet Filtrexx Soxx<sup>10</sup> Material Specifications and use . Certified Filtrexx FilterMedia<sup>19</sup> Contractor is required to be Filtrexx Certified<sup>19</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 af time of application (current listing can be found SiltSoxx<sup>10</sup> should be installed parallel to the base of the slope or other disturbed area. In extreme conditions (i.e., 2; I slopes), a second SiltSoxx<sup>10</sup> shall be constructed at the top of the slope. Stakes shall be installed through the middle of the SiltSoxx<sup>10</sup> on 10 ft (3m) centers, using 2 in (50mm) by 2 in (50mm) by 3 ft (1m) wooden stakes. In Stakes shall be installed informed in the middle of the SiteSoxx on tori (1) (on) centers using 2 in (30mm) of 2 in (30mm) of 5 in (1n) would stakes in the event staking is not possible, i.e., when SiteSoxx are used on pavement, heavy concrete blocks shall be used behind the SiteSoxx are to help stabilize during rainfall/runoff events.
Staking depth for sand and sitt loam soils shall be 12 in (300mm), and 8 in (200mm) for elay soils.
Loose compost may be backfilled along the upslope side of the SiteSoxx are filling the seam between the soil surface and the device, improving filtration and sediment retention.
If the SiteSoxx is to be left as a permanent filter or part of the natural landscape; it may be seeded at time of installation for establishment of a solution. permanent vegetation. The Engineer will specify seed requirements. 9. Filtrexx SiltSoxx are not to be used in perennial, ephemeral or intermittent streams, See design drawing schematic for correct Piltrexx SiltSoxx installation (Figure 1.1). Routine inspection should be conducted within 24 hrs of a runoff event or as designated by the regulating authority. SittSoxx<sup>100</sup> should be regularly inspected to make sure they maintain their shape and are producing adequate hydraulic flow-through. If ponding becomes excessive, additional SiltSoxx may be required to reduce effective slope length or sediment removal may be necessary. SiltSoxx M shall be inspected until area above has been permanently stabilized and construction activity has ceased The Contractor shall maintain the SiltSoxx<sup>14</sup> in a functional condition at all times and it shall be routinely inspected. 1 If the StillSoxx<sup>TM</sup> has been damaged, it shall be repaired, or replaced if beyond repair. The Contractor shall remove sediment at the base of the upslope side of the SillSoxx<sup>TM</sup> when accumulation has reached 1/2 of the effective height of the SittSoxx<sup>11</sup>, or as directed by the Engineer. Alternatively, a new SittSoxx<sup>11</sup> can be placed on top of and slightly behind the original one creating more sediment storage capacity without soil disturbance. SittSoxx<sup>11</sup> shall be maintained until disturbed area above the device has been permanently stabilized and construction activity has ceased. The FilterMedia<sup>11</sup> will be dispersed on site once disturbed area has been permanently stabilized, construction activity has ceased, or as determined by the Engineer. For long-term sediment and pollution control applications, SiltSoxx<sup>10</sup> can be seeded at the time of installation to create a vegetative likering system for prolonged and increased filtration of sediment and soluble pollutants (contained vegetative filter strip). The appropriate seed mix shall be determined by the Engineer

## Notes:

- 1. Meters shall be Neptune Trident 10 Water Meters, pit version, complete with an R900i, integral antenna. Meter shall read in US 100-gallons.
- 2. Length of box "B" should be distance "C" plus distance required to install fittings as shown.
- 3. Vault walls to be of concrete.
- 4. Vault roof to be of reinforced concrete with access opening centered over meter.
- 5. Vault frame and lid shall be removable and not cast in concrete. Double sets of lids and frames to be provided for openings on all boxes.
- 6. Valves on each side of meter must have flanged ends, be in alignment, and be adequately secured to withstand water thrust with meter removed.
- 7. Dismantling joint with strainer is required.
- 8. Drainage facilities must be provided, or box otherwise kept free of water, no French Drains will be allowed.
- 9. Service to be run at right angles from meter box to the street. 10. Meter box control valve to be located as near to box as practical.
- 11. Steps to be provided it City of St. Peters Utility Department allows box depth to exceed 6 feet.
- 12. D.I. Class 52 Pipe minimum required, extended minimum 6 feet from outlet side of meter pit.
- 13. Type "K" or "L" copper on domestic, extended minimum 6 feet from outlet side of meter pit. 14. Any deviation from pipe depth shown must be approved by city of St. Peters Utility Department
- prior to construction.
- 15. Box to be set with top of box at finished grade with no extension allowed. 16. A drawing of the vault and meter components along with component specifications shall be submitted to the City of St. Peters Utility Department for approval.

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		Maximum Slop	e Length Above Si	ItSoxx <sup>in</sup> in Feet (me	eters)*		
	Slope	8 in (200 mm)	12 in (300 mm)	18 in (450 mm)	24 in (600mm)	32 in (800mm)	Part
	Percent	SiltSoxx	SiltSoxx	SiltSoxx	SiltSoxxm	SiltSoxx	
		7 in	10 in	15 in	20 in	26 in	
	N. P. N. K.	(175 mm)**	(250 mm) **	(375 mm) **	(500 mm) **	(650 mm) **	
	2 (or less)	- 600 (180)	750 (225)-	1000 (300).	1300 (400)	1650 (500)	
	265	400 (120)	500 (150)	550 (165)	650 (200)	750 (225)	
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	Slope	8 in (200 mm)	12 in (300 mm)	18 in (450 mm)	1
	Percent	SiltSoxx	SiltSoxx	SiltSoxx	C/S 10
x		7 in 3	10 in	<b>D5 in</b>	Con Con
		(175 mm)**	(250 mm) **	(375 mm) **	
	2 (or less)	600 (180)	750 (225)-	1000 (300)	100
	5	400 (120)	500 (150).	550 (165)	1
	10°	200 (60)	250 (75)	300 (90).	() 
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	5.2° m	60 (18)	75 (23)	80 (24)	ļ
	40		75 (23)	80 (24)	01.000
	45	40 (12)	50 (15).	60 (18)	
	S. 50	40 (12)	50 (15).	55 (17)	
				inforced) at 1000 ft (	
				4 hr) rain event: **E	Ĥ
constant head	from runoff as	determined by O	hio State University		

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## NORTH AMERICAN GREEN

**Material and Performance Specification** 

**S75 Erosion Control Blanket** 

ndex Property

Water Absorbency

Thickness

Resiliency

T	ensar International Corporation
	5401 St. Wendel-Cynthiana Road
	Poseyville, Indiana 47633
	Tel. 800.772.2040
	Fax 812.867.0247
	www.nagreen.com

Typical

0.37 in (9.4 mm)

Test Method

ASTM D6525

ECTC Guidelines 78.8%

ASTM D1117 426%

The short-term single net erosion control blanket shall be a
machine-produced mat of 100% agricultural straw with a
functional longevity of up to 12 months. (NOTE: functional
longevity may vary depending upon climatic conditions, soil,
geographical location, and elevation). The blanket shall be of
consistent thickness with the straw evenly distributed over the
entire area of the mat. The blanket shall be covered on the top
side with a lightweight photodegradable polypropylene netting
having an approximate 0.50 x 0.50 (1.27 x 1.27 cm) mesh. The
blanket shall be sewn together on 1.50 inch (3.81 cm) centers
with degradable thread. The blanket shall be manufactured with
a colored thread stitched along both outer edges (approximately
2-5 inches [5-12.5 cm] from the edge) as an overlap guide for
adjacent mats.

Description

The S75 shall meet Type 2.C specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section

		Material	Content		
Matrix	100% Straw Fiber			0.5 lbs/yd <sup>2</sup> (0.27 kg/m <sup>2</sup> )	
Netting	Top side only, lightweight photodegradable			1.5 lb/1000 ft <sup>2</sup> (0.73 kg/100 m <sup>2</sup> ) approx. weight	
Thread	deg	degradable			
-		Standard I	Roll Size	s	
Width		6.67 ft (2.03 m)	8.0 ft (2.44	1 m)	16.0 ft (4.87 m)
Length		108 ft (32.92 m)		4 m)	108 ft (32.92 m)
Weight ± 10%		40 lbs (18.14 kg)	50 lb (22.6	s 58 kg)	96 lbs (43.54 kg)
Area		80 yd <sup>2</sup> (66.9 m <sup>2</sup> )	100 y (83.6	yd <sup>2</sup> 51 m <sup>2</sup> )	192 yd <sup>2</sup> (165.5 m <sup>2</sup> )
		Bench Scale Te			
Test Met	hod	Parameters	5	Re	esults
ECTC 2 Rainfall		50 mm (2 in)/hr-30 min 100mm (4 in)/hr-30 min 150 mm (6 in)/hr-30 min		SLR** = 8.80 SLR** = 8.16 SLR** = 7.81	
ECTC 3 Shear Res		Shear at 0.50 inch soil loss		1.80 lbs/ft <sup>2</sup>	
ECTC 4 Germinati	on	Top Soil, Fescue, incubation	N 101.	228% improvement of biomass	
		sts should not be us = Soil Loss Bare Soi			

Mass/Unit Area	ASTM 6475			11.97 oz/yd <sup>2</sup> (407 g/m <sup>2</sup> )	
Swell ECT		uideline	s 15%	15%	
Smolder Resistance	ECTC G	ECTC Guidelines		Yes	
Stiffness	ASTM D	1388	6.31 oz-	in	
Light Penetration ECTC 0		uideline	delines 7.3%		
Tensile Strength –MD	ASTM D	6818		130.8 lbs/ft (1.94 kN/m)	
Elongation - MD	ASTM D	6818	24.4%		
Tensile Strength – TD	ASTM D	6818	85.2 lbs (1.26 kM		
Elongation - TD	ASTM D	6818	26.8%		
Maximum F	Permissih	le Shea	r Stress	-	
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		1.5	E lbe/6+2 /74	Dal	
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Tensar International Corporation warrants that at the time of delivery the product furnished hereunder shall conform to the specification stated herein. Any other warrantly including merchantability and fitness for a particular purpose, are hereby executed. If the product observe the specifications on this page and Tensar is notified prior to installation, Tensar will replace the product at no cost to the customer. **This product specification** supersedes all prior specifications for the product described above is and is not applicable to any products shipped prior to January 1, 2011.

**Proud Participant o** 

\*EROSION CONTROL BLANKET TO BE **INSTALLED ON ALL 3:1 SLOPES** 

> REFERENCE DRAWINGS ONLY ENGINEERS SEAL DOES NOT APPLY TO DETAILS ON THIS SHEET.

C CENTER 100rl, 63376
IMPROVEMENT PLANS FOR ERS OUTDOOR AQUATIC CENTER 5200 MEXICO ROAD S200 MEXICO ROAD S2 CHARLES COUNTY, MISSOURI, 63376 S1. PETERS CENTRE BOULEVARD ONE ST. PETERS ONE ST
IL DETERS
ENGINEERING
PLANNING SURVEYING ■ 221 Point West Blvd. St. Charles, M0 63301
636-928-5552 FAX 928-1718 Bax Engineering Company, Inc. Missouri State Certificate of Authority
Engineering #000655 Missouri State Certificate of Authority Surveying #000144 <i>REVISIONS</i>
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<u>DATE</u> <u>15-16693A</u> <u>PROJECT NUMBER</u> <u>16693sketch_02</u> <u>FILE NAME</u> <u>TMM</u> <u>DRAWN</u> <u>LDW LDW</u> <u>DESIGNED CHECKED</u>