# FILTREXX

### **SWPPP Cut Sheet** Last Updated: 7-1-07

### Section 1: Erosion and Sediment Control – Construction Activities

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

PURPOSE & DESCRIPTION

Filtrexx SiltSoxx<sup>TM</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.

### APPLICATION

Filtrexx SiltSoxx<sup>TM</sup> are to be installed down slope of any disturbed area requiring erosion and sediment control and filtration of soluble pollutants from runoff. SiltSoxx<sup>TM</sup> are effective when installed perpendicular to sheet or low concentrated flow. Acceptable applications include: 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 silt fence is impossible.

### INSTALLATION

- 1. SiltSoxx<sup>TM</sup> used for perimeter control of sediment and soluble pollutants in storm runoff shall meet Filtrexx Soxx<sup>TM</sup> Material Specifications and use Certified Filtrexx FilterMedia<sup>™</sup>
- 2. Contractor is required to be Filtrexx Certified<sup>™</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<sup>™</sup> Seal.
- 3. SiltSoxx<sup>™</sup> will be placed at locations indicated on plans as directed by the Engineer. 4. SiltSoxx<sup>TM</sup> 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<sup>TM</sup> shall
- be constructed at the top of the slope. 5. Stakes shall be installed through the middle of the SiltSoxx<sup>TM</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<sup>™</sup> are used on pavement, heavy concrete blocks shall be used behind the SiltSoxx<sup>™</sup> to help stabilize during rainfall/runoff events.
- 6. Staking depth for sand and silt loam soils shall be 12 in (300mm), and 8 in (200mm) for clay soils. 7. Loose compost may be backfilled along the upslope side of the SiltSoxx<sup>TM</sup>, filling the seam between the soil surface and the device, improving filtration and sediment retention.
- 8. If the SiltSoxx<sup>TM</sup> 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 permanent vegetation. The Engineer will specify seed requirements
- 9. Filtrexx SiltSoxx<sup>™</sup> are not to be used in perennial, ephemeral, or intermittent streams. See design drawing schematic for correct Filtrexx SiltSoxx<sup>™</sup> installation (Figure 1.1).

### INSPECTION and MAINTENANCE

- Routine inspection should be conducted within 24 hrs of a runoff event or as designated by the regulating authority. SiltSoxx<sup>TM</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<sup>TM</sup> may be required to reduce effective slope length or sediment removal may be necessary. SiltSoxx<sup>TM</sup> shall be inspected until area above has been permanently stabilized and construction activity has ceased
- The Contractor shall maintain the SiltSoxx<sup>TM</sup> in a functional condition at all times and it shall be routinely inspected. If the SiltSoxx<sup>TM</sup> 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>TM</sup> when accumulation has reached 1/2 of the effective height of the
- SiltSoxx<sup>TM</sup>, or as directed by the Engineer. Alternatively, a new SiltSoxx<sup>TM</sup> can be placed on top of and slightly behind the original one creating more sediment storage capacity without soil disturbance. 4. SiltSoxx<sup>TM</sup> shall be maintained until disturbed area above the device has been permanently stabilized and construction activity has ceased. 5. The Filter Media<sup>TM</sup> will be dispersed on site once disturbed area has been permanently stabilized, construction activity has ceased, or as determined by
- the Engineer. 6. For long-term sediment and pollution control applications, SiltSoxx<sup>TM</sup> can be seeded at the time of installation to create a vegetative filtering 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.



2" x 2" Wooden Stake





### Filtrexx® SiltSoxx<sup>™</sup> Section

- 1. All material to meet Filtrexx® specifications
- 2. SiltSoxx™ compost/jsoil/rock/seed fill to meet application
- equirements. 3. SiltSoxx<sup>™</sup> 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

Maximum Slope Length Above SiltSoxx <sup>tm</sup> in Feet (meters)*

Slope Percent	8 in (200 mm) SiltSoxx <sup>tm</sup>	12 in (300 mm) SiltSoxx <sup>tm</sup>	18 in (450 mm) SiltSoxx <sup>tm</sup>	24 in (600mm) SiltSoxx <sup>tm</sup>	32 in (800mm) SiltSoxx <sup>tm</sup>
	7 in (175 mm)**	10 in (250 mm) **	15 in (375 mm) **	20 in (500 mm) **	26 in (650 mm) **
2 (or less)	600 (180)	750 (225)	1000 (300)	1300 (400)	1650 (500)
5	400 (120)	500 (150)	550 (165)	650 (200)	750 (225)
10	200 (60)	250 (75)	300 (90)	400 (120)	500 (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)

receiving length of sediment control device, 1 in/24 hr (25 mm/24 hr) rain event. \*\*Effective height of Silt Soxx<sup>™</sup> after installation and with constant head from runoff as determined by Ohio State University.

60.20.2SURFACE STABILIZATION

### IT IS CRITICAL THAT TEMPORARY AND PERMANENT SURFACE STABILIZATION BE PROVIDED AS SOON AS POSSIBLE TO REDUCE EROSION AT THE SOURCE. THERE ARE SEVERAL ACCEPTABLE METHODS TO STABILIZE BARE GROUND: REVEGETATION BY SEEDING OR SODDING, MULCHING, EROSION CONTROL BLANKETS, SOIL BINDERS, ROCK TOPPING, STRUCTURAL TOPPING SUCH AS CONCRETING, ETC. TEMPORARY SEED AND SURFACE STABILIZATION METHODS CAN BE USED IF THE AREA WILL BE DISTURBED LATER IN THE DEVELOPMENT. THE AREA SHOULD BE PERMANENTLY REVEGETATED OR SURFACED WHEN NO FURTHER LAND DISTURBANCE WILL OCCUR.

- THE FOLLOWING PROVISIONS SHALL APPLY TO SURFACE STABILIZATION:
- 1. SURFACE STABILIZATION MUST EFFECTIVELY STABILIZE AT LEAST 70% OF THE TOTAL DISTURBED SITE AREA.
- THE SITE MUST BE PERMANENTLY STABILIZED.
- 4. SURFACE STABILIZATION SHALL BE SCHEDULED AS PROVIDE IN TABLE 60-5 BELOW:

## TABLE 60.5 SOIL STABILIZATION SCHEDULE

Soil Disturbance Activity or Condition	Required Stabilization Time	
oil disturbance has ceased in areas greater than 2,000 quare feet.	14 days	
fter construction of dikes, swales, diversions, and other oncentrated flow areas	5 days	
When slopes are steeper than 3 horizontal to 1 vertical	7 days	
When slopes are greater than 3% and longer than 150 feet.	14 days	
erimeter controls around soil stockpiles.	End of workday	
tabilization or covering of inactive stockpiles.	30 days	
Then land disturbance is completed, permanent soil abilization must be installed.	30 days	

### 60.20.2.1 TEMPORARY SEEDING

#### TEMPORARY SEEDING AND MULCHING SHALL BE APPLIED TO ALL CLEARED, UNVEGETATED, OR SPARSELY VEGETATED SOIL SURFACES WHERE VEGETATIVE COVER IS REQUIRED FOR LESS THAN 1 YEAR. TEMPORARY SEEDING SHALL GERMINATE TO A DENSITY OF AT LEAST 70% OF THE TOTAL DISTURBED SITE AREA. TEMPORARY SEEDING MAY BE USED FOR DIVERSIONS, DAMS, TEMPORARY SEDIMENT BASINS, TEMPORARY ROAD BANKS, TOPSOIL STOCKPILES, AND ANY OTHER EXPOSED AREAS OF A CONSTRUCTION SITE, WHICH MEET VELOCITY AND OTHER REOUIREMENTS FOR ITS USE.

TEMPORARY SEEDING MAY BE SUSPENDED FROM INDIVIDUAL LOTS LOCATED IN THE PROJECT AREA, WHICH HAVE AN ACTIVE BUILDING PERMIT. UPON COMPLETION OF THE BUILDING ACTIVITY, THE SITE SHALL BE PERMANENTLY VEGETATED.

### 60.20.2.1.1 SEED

SEED MUST BE CLEAN, RELATIVELY FREE OF WEED SEED AND OTHER CONTAMINANTS, AND COMPLY WITH THE FEDERAL SEED ACT AND THE MISSOURI STATE SEED LAW. SEED THAT HAS BECOME WET, MOLDY, OR OTHERWISE DAMAGED IN TRANSIT OR STORAGE IS NOT ACCEPTABLE. TURF MIXES CAN BE USED WITH NO MORE THAN 10% KENTUCKY BLUEGRASS AND AT LEAST 20% PERENNIAL RYE.

### 60.20.2.1.2 SEEDBED PREPARATION

SEEDBED PREPARATION IS ESSENTIAL FOR THE SEED TO GERMINATE AND GROW. FOR BROADCAST SEEDING AND DRILLING, LOOSEN THE TOP 3 TO 6 INCHES OF SOIL. LIME AND FERTILIZER SHOULD BY INCORPORATED BY DISKING. IF RECENT TILLAGE OR GRADING OPERATIONS HAVE RESULTED IN A LOOSE SURFACE, ADDITIONAL TILLAGE MAY NOT BE REQUIRED. IF RAINFALL CAUSED THE SOIL SURFACE TO BECOME SEALED OR CRUSTED, SURFACE TILLING WILL BE REQUIRED PRIOR TO SEEDING. THE SEEDBED AREA SHALL BE TESTED BY AN APPROVED NURSERY FOR PROPER APPLICATION RATES OF LIME AND FERTILIZER. RESULTS OF THE TEST ARE TO BE SENT TO THE COUNTY INSPECTOR WITH THE RECOMMENDED APPLICATION RATES. MULCHING OR THE ADDITION OF STOCKPILED TOPSOIL IS REQUIRED ON ALL SEEDBEDS PRIOR TO THE

## PLACEMENT OF SEED WHEREVER THERE ARE INADEQUATE AMOUNTS OF TOPSOIL. MULCH SHALL BE APPLIED AFTER SEEDING FOR PROTECTION AND TO AID IN SEED GERMINATION. MULCH SHALL BE PLACED IN ACCORDANCE WITH THE MULCHING SECTION OF THIS DOCUMENT.

Soil Amendment Material		Application Rate (Lb per Acre)
	Nitrogen (N)	30 <sup>1</sup>
Fertilizer	Phosphate (P2O5)	90 <sup>1</sup>
	Potash (K <sub>2</sub> O)	90 <sup>1</sup>
Lime	1. <u>1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1</u>	$1,000^{-2}$

<sup>1</sup>Increase the rate by 25% for slopes steeper than 5:1. <sup>2</sup>Rate is in effective neutralizing material (ENM) units

### 60.20.2.1.3 TEMPORARY SEEDING RATES AND TIMES

IN AREAS THAT ARE ON SLOPES FLATTER THAN 4:1 AND THAT ARE NOT WITHIN WATERCOURSES, SEEDING SHALL BE APPLIED AT THE RATES AND TIMES SPECIFIED IN TABLE 60-7 AND TABLE 60-

OTHER SEED SPECIES AND MIXTURES CAN BE

PROPOSED PRIOR TO PLANTING, AS RECOMMENDED BY AN AGRONOMIST, COMPETENT NURSERY COMPANY, OR REFER TO NRCS MOFOTG CODE 340 (COVER CROP) IN APPENDIX D. FOR CHANNELS, EMBANKMENTS, AND SLOPES OF 4:1 OR STEEPER, SEEDING SHALL BE A MIXTURE OF K31 FESCUE AND RYE AT A RATE OF 400 POUNDS PER ACRE.

**TABLE 60-7 TEMPORARY FALL SEEDING** 

Soil Amendment Material		Application I (Lb per Ac	
	Nitrogen (N)	30 <sup>1</sup>	
Fertilizer	Phosphate (P2O5)	90 <sup>1</sup>	
	Potash (K <sub>2</sub> O)	90 <sup>1</sup>	
Lime		1,000 2	

Increase the rate by 25% for slopes steeper than 5:1. <sup>2</sup>Rate is in effective neutralizing material (ENM) units.

### TABLE 60-8 TEMPORARY SPRING SEEDING

Plant Species	Rate <sup>1</sup> (lb/acre)	Seeding
Side-Oats	65	8/16 –
Winter Rye	50	8/01 - 1
Winter Wheat	60	8/01 - 1
Orchard Grass	120	8/01 - 1
Perennial Ryegrass	80	8/01 – 1
Tall fescue, Smooth Brome	80	8/01 - 3
K-31 Fescue	120	9/01 - 1
Ladino Clover	2 2	8/15 -
Crimson Clover	6 <sup>2</sup>	8/15 -
Orchard Grass and Oats or Rye	15 <sup>2</sup> 40 <sup>2</sup>	8/15 -

<sup>1</sup>If using aerial seeding or other broadcast method to apply seed without rolling or cultipacking, increase seeding rates by 50 percent. <sup>2</sup>Pure live seed (PLS)

### NOTES ARE FROM THE ST. CHARLES COUNTY SOIL AND WATER CONSERVATION DISTRICT EROSION AND SEDIMENT CONTROL GUIDELINES

BARE GROUND MUST BE STABILIZED BY REVEGETATION, MULCHING, EROSION CONTROL BLANKETS AND NETTING, SOIL BINDERS, ROCK SURFACING, STRUCTURAL TOPPING, OR OTHER APPROVED TECHNIQUES. SEE ESC 3 FOR USE OF APPROPRIATE SURFACE STABILIZATION METHODS FOR SHEET FLOW.

2. SURFACE STABILIZATION MAY BE SUSPENDED FROM PORTIONS OF THE PROJECT AREA WHICH HAVE AN ACTIVE BUILDING PERMIT. UPON COMPLETION OF THE BUILDING ACTIVITY,

3. NON-DEGRADABLE MATS SHALL BE USED ONLY AS A PERMANENT INSTALLATION, AND IN AREAS THAT WILL NOT BE MOWED.

IN LIEU OF SOIL TESTING FOR LAND DISTURBANCE SITES LESS THAN TWO (2) ACRES, THE FOLLOWING FERTILIZER AND LIME RATES SHALL BE APPLIED:

8. SEED SHALL BE EVENLY SPREAD WITH A BROADCAST SEEDER, DRILL, OR HYDRO SEEDER. THE PROPER DEPTH IS 1/4 TO 1/2 INCHES DEEP FOR LEGUMES AND GRASSES SUCH AS ANNUAL RYEGRASS AND UP TO 1 AND 1/2 INCHES FOR CEREAL GRAINS. IF THE SEED IS APPLIED BY A BROADCAST METHOD, THE AREA WILL BE ROLLED OR CULTI-PACKED IMMEDIATELY AFTER SEEDING ON A PREPARED SEEDBED ONLY. ROLLING OR CULTI-PACKING IS NOT REQUIRED IF THE BROADCAST SEEDING RATE IS INCREASED BY 50 PERCENT.



ſimes	
9/30	
0/15	
0/15	
0/15	
0/15	
0/15	
1/15	
9/15	
9/15	
0/15	





SiltSoxxTM for Sediment Control on Pavement

#### 1. SOIL TEST REPORT 2. SEEDING DATE

- 3. FERTILIZATION MIXTURE AND RATE
- 4. SEED MIXTURE(S) AND RATE(S), SUPPLIER, PURITY PERCENTAG
- 5. MULCHING MATERIAL(S) AND APPLICATION RATE(S) 6. MOWING HEIGHT AND SCHEDULE

60.20.2.3 SODDING

Material	Rate	Requirements	Installation/Us
Straw	1.5-2.5 tons/ac (3-4 tons, if roller punched)	Dry, unchopped, unweathered; free of weed seeds & rot.	Spread by ma inches deep; n tacked or tied
Compost Blanket	1" thick	Double the application rate for embankments	Follow manuf application m
Wood fiber, wood cellulose, paper	1-2 tons/ac	Double the application rate in critical areas	Use with pow hydroseeder: a to tack straw o slopes. Canno hot dry weath

- 1. PROTECTION OF NEWLY SEEDED AREAS IS CRITICAL. 2. SLOPES ARE GREATER THAN 3:1.
- 3. SLOPES AT 3:1 EXCEED 20 FOOT IN VERTICAL SURFACE LENGTH

- 1. NETTING: SYNTHETIC OR NATURAL FIBER MESH INSTALLED
- 2. BIODEGRADABLE RECP: NATURAL FIBER BLANKET HELD TOG
- 3. PERMANENT RECP SYNTHETIC BLANKET MATERIAL WHICH P
- 4. TURF REINFORCEMENT MAT (TRM): 3-DIMENSIONAL PERMAN VEGETATION FOR PERMANENT EROSION PROTECTION IN HIG PERMANENT INSTALLATION. TRMS REQUIRE THE DESIGN BY

ON SLOPES AND IN SMALL DRAINS THE BLANKET SHALL BE UNRO SHALL BE ANCHORED IN A MINIMUM 6-INCH DEEP ANCHOR TREN BLANKET LENGTH IS NEEDED, THE MATERIAL SHALL BE OVER RECOMMENDATION. STABILIZED CONSTRUCTION ENTRAN



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60.20.2.1.4 SUBMITTALS & FOLLOW-UP CARE THE FOLLOWING SUBMITTALS ARE REQUIRED PRIOR TO TEMPORARY SEEDING: 1. SOIL TEST REPORT 2. SEEDING DATE 3. FERTILIZATION MIXTURE AND RATE 4. SEED MIXTURE(S) AND RATE(S), SUPPLIER, PURITY PERCENTAGE 5. MULCHING MATERIAL(S) AND APPLICATION RATE(S) 6. MOWING HEIGHT AND SCHEDULE EEEDED AREAS SHALL BE RE-FERTILIZED 4 WEEKS AFTER INITIAL SEEDING. ALL AREAS IDENTIFIED AS BARE AND SPARSE (LESS THAN 30% GROUND COVER) DURING THE INSPECTION HALL BE RE-SEEDED AND MULCHED. GRASS SHALL NOT BE CUT UNTIL 4 INCHES OF GROWTH OCCURS. 0.20.2.2 PERMANENT SEEDING VFTER LAND DISTURBANCE ACTIVITIES HAVE BEEN COMPLETED IN AN AREA, PERMANENT SEEDING SHALL BE APPLIED. PERMANENT SEEDING IS THE ESTABLISHMENT OF PERENNAL FORTATION ON DISTURBED AREAS FOR PERIODS LONGER THAN 12 MONTHS. PERMANENT SEEDING IS USED WHEN VEGETATION IS DESIGNED TO PERMANENTLY STABILIZE THE SOIL. ARTICULAR CARE IS REQUIRED TO ESTABLISH A THICK COVER OF PERMANENT GRASS. EEFER TO SECTIONS 60.20.2.1.1, 60.20.2.1.2, AND 60.20.2.1.4 AND TO NRCS MOFOTG CODE 342 (CRITICAL AREA PLANTING) IN APPENDIX D FOR PERMANENT SEEDING GUIDELINES. 0.20.2.3 SODDING	PROJECT TITLE: CONSTRUCTION PLANS FOR: First Baptist Church of O'Fallon 8750 Veterans Memorial Pkwy O'Fallon, MO 63366 D'Fallon, MO 63366
SODDING IS THE USE OF A VEGETATIVE COVER TO PROVIDE IMMEDIATE EROSION CONTROL IN DISTURBED AREAS. SODDING IS WELL SUITED FOR STABILIZING ERODIBLE AREAS SUCH AS GRASS-LINED CHANNELS, STORMWATER DETENTION BASINS, DIVERSIONS, SWALES, SLOPES, AND FILTER STRIPS BECAUSE IT PROVIDES AN INSTANT VEGETATIVE COVER WITH AN STABLISHED ROOT SYSTEM. PLACEMENT OF SOD ON SLOPES STEEPER THAN 10% SHOULD BE STAKED. 40.20.2.4 MULCHING MULCHING AND HYDRO MULCH ARE THE APPLICATION OF PLANT RESIDUES SUCH AS STRAW OR OTHER SUITABLE MATERIALS TO THE SOIL SURFACE. MULCH PROTECTS THE SOIL SURFACE FROM THE EROSIVE FORCE OF RAINDROP IMPACT AND REDUCES THE VELOCITY OF OVERLAND FLOW. IT HELPS SEEDLINGS GERMINATE AND GROW BY CONSERVING MOISTURE, PROTECTING AGAINST TEMPERATURE EXTREMES, AND CONTROLLING WEEDS. MULCH ALSO MAINTAINS THE INFILTRATION CAPACITY OF THE SOIL. MULCH SHALL BE APPLIED TO SEEDED AREAS TO HELP ESTABLISH PLANT COVER. IT CAN ALSO BE USED AS TEMPORARY COVER IN UNSEEDED AREAS TO PROTECT AGAINST EROSION OVER THE WINTER OR UNTIL FINAL GRADING AND SHAPING CAN BE ACCOMPLISHED. APPLICATION RATES ARE SHOWN IN <b>TABLE 60-9</b> BELOW.	ENCINEERING PLANNING SURVEYING SURVEYING 221 Point West Blvd. 221 Point West Blvd. 221 Point West Blvd. 36-928-5552 FAX 928-1718
MaterialRateRequirementsInstallation/UsesStraw1.5-2.5 tons/ac (3-4 tons, if roller punched)Dry, unchopped, unweathered; free of weed seeds & rot.Spread by machine 1.5-2.5 inches deep; must be tacked or tied down.Compost Blanket1" thickDouble the application rate for embankmentsFollow manufacturer's application method.Wood fiber, wood cellulose, paper1-2 tons/acDouble the application rate in critical areasUse with power mulcher or hydroscett; may be used to tack straw on steep slopes. Cannot be used in hot dry weather.	DISCLAIMER OF RESPONSIBILITY I hereby 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
ACKIFIERS AND SOIL BINDERS CAN INCREASE THE PERFORMANCE OF MULCH MATERIAL BINDERS CAN ALSO BE DIRECTLY APPLIED TO THE BARE SOIL TO PROVIDE BINDING OF THE LOCE PARTICLES AND REDUCE THE REDSIGNOR POTENTIAL OF THE BARE SOIL.  6.20.2.5.1 TACKIFIERS AND BINDERS ARE APPLIED TO ORGANIC MULCH TO REDUCE THE POTENTIAL OF MULCH MOVEMENT BY WATER OR WIND AND INCREASE THE PERFORMANCE OF THE MATERIAL SUBSTANCES ARE USED TO ANCHOR STRAW, HAY, PAPER, OR WOOD MULCH BY CAUSING THE ORGANIC MATERIAL TO BIND TOGETHER.  6.20.2.5.2 BONDED FIBER MATRIX (BFM)  A CLASSIFICATION OF FROSION CONTROL PRODUCTS THAT ARE DESIGNED TO STAY IN PLACE ON STEEP SLOPES. A BONDED FIBER MATRIX IS A CONTINUOUS LAYER OF FLONGATED FIBER STRAND SHELD TOGETHER BY A BINDING AGENT THAT IS WATER RESISTANT. ONCE DRY, THE BPM FORMS A WATER ABSORBENT PROTECTIVE COVER THAT IS POROLS AND BROADED FIBER STRAND SHELD TOGETHER BY A BINDING AGENT THAT IS WATER RESISTANT. ONCE DRY, THE BPM FORMS A WATER ABSORBENT PROTECTIVE COVER THAT IS POROLS AND BROADED FIBER STRAND SHELD TOGETHER BY A BINDING AGENT THAT IS WATER RESISTANT. ONCE DRY, THE BPM FORMS A WATER ABSORBENT PROTECTIVE COVER THAT IS POROLS AND BROADED FIBER STRAND. SHELD TOGETHER BY A BINDING AGENT THAT IS WATER RESISTANT. ONCE DRY, THE BPM FORMS A WATER ABSORBENT ROTOR THE POROLS AND BROADED FIBER STRANDS AND SEED WHILE ENHANCING BETABLISHMENT OF VEGETATION. DUE TO MANY DIFFERENT TYPES OF PRODUCTS AVAILABLE ON THE MARKET, IT IS BEST TO CONSULT WITH THE MANUBACTURER FOR PROPER APPLICATION RATES AND PROCEDURES WITH A MINDING F2 TONS SEE ACRE.  6.20.2.5.1 FLEXIBLE GROWTH MEDIUM (FGM)  FGM COMMINES BOTH CHEMICAL AND MECHANICAL BONDING TECHNIQUES TO LOCK THE ENGINEERE MEDIUM IN PLACE TO BOND DIRECTLY TO THE SOIL WOOD FIBERS, CRIMPED MANN. ADD FREPORMANCE-ENHANCING ADDITIVIS FORM A LOFTY. INFERIOCKIME MATRIX THAT CREATES AND PRACE. AND WATER ABSORBERNG CAUTIES THAT ACCEPTER BERMINATION, REDUCT THE BMACT OF PROPORY. AND MINIMALE SOIL LOSS. THE CHEMISTRY PRABLES MATRIX TO HANDELE HIGHER RATES OF SURFACE FLOW ENERGY. A	be used for any part or parts of the architectural or engineering project or survey. CLIFFORD L. HEITMANN NUMBER E-29817 CLIFFORD 2. HEITMANN CIVIL ENGINEER E-29817 Copyright 2022 Bax Engineering Company, Inc. Authority No. 000655 All Rights Reserved REVISIONS 11-7-22 CITY COMMENTS 12-9-22 BLDG. UTILITIES 12-15-22 BID SET
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