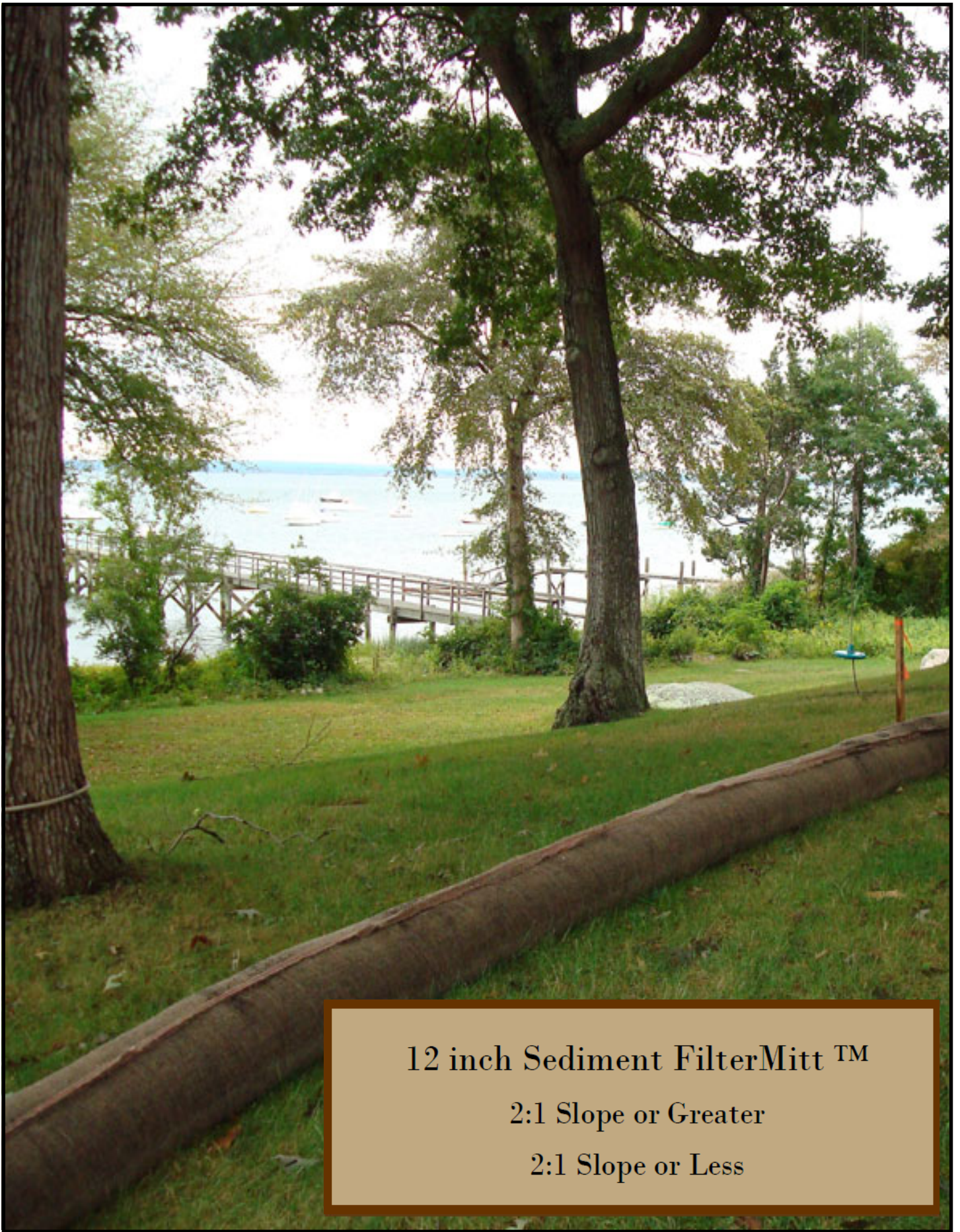




12 inch Sediment FilterMitt™

2:1 Slope or Greater

2:1 Slope or Less



# Certified Groundscapes Express Inc.

## 12 inch Sediment *FilterMitt*<sup>TM</sup>

### QUICK REFERENCE GUIDE

|                                                                                          |          |                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Microbial <i>FilterMitt</i> <sup>TM</sup>                                                | Used for | Vegetated Permanent erosion control                                                                                                                                                                                                                                                                                                                                                     |
| Microbial <i>FilterMitt</i> <sup>TM</sup> Berm                                           | Used for | Vegetated Permanent erosion control where a large range of anticipated water flow is expected                                                                                                                                                                                                                                                                                           |
| Microbial and <i>PowerBoost</i> <sup>TM</sup><br>Mulch <i>EarthBlanket</i> <sup>TM</sup> | Used for | Vegetated Permanent erosion control to prevent sheet flow, Stabilizes soil and prevents sediment loss on slopes of varying steepness.                                                                                                                                                                                                                                                   |
| Sediment <i>FilterMitt</i> <sup>TM</sup>                                                 | Used for | Un-vegetated temporary erosion control                                                                                                                                                                                                                                                                                                                                                  |
| Sediment <i>FilterMitt</i> <sup>TM</sup> Berm                                            | Used for | Un-vegetated temporary erosion control where a large range of anticipated water flow is expected                                                                                                                                                                                                                                                                                        |
| Sediment <i>EarthBlanket</i> <sup>TM</sup>                                               | Used for | Un-vegetated temporary erosion control to prevent sheet flow, Stabilizes soil and prevents sediment loss on slopes of varying steepness.                                                                                                                                                                                                                                                |
| Topdressing                                                                              | Used for | Enhancing soil structure and performance to hold moisture while increasing the soils organic matter.                                                                                                                                                                                                                                                                                    |
| Microbial Inoculants                                                                     | Used for | <p>Adding a large number of beneficial microorganisms into the soil. Microbial Inoculants helps improve soil structure, fertility, and, ultimately, plant health, also inhibit diseases.</p> <p>Used in stormwater management to remediate persistent hydrocarbons which contaminate sediments found in stormwater by renewing the populations of active beneficial microorganisms.</p> |
| Environmental fence                                                                      | Used for | Protection of stormwater management products, keeping intruders out of the wetlands, also allowing wildlife access to their habitat.                                                                                                                                                                                                                                                    |





# Certified Groundscapes Express Inc.

## 12 inch Sediment *FilterMitt™*

### COMPOST PRODUCTS

|                          |          |                                                                                                                                                                                                                     |
|--------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>EarthBoost™</i>       | Used for | Topdressing, potting mixes, gardens, and prescription soil blending.                                                                                                                                                |
| <i>PowerBoost™</i> Mulch | Used for | Useful in light erosion applications on gentle slopes, flat areas, or where lower water flows are anticipated. It also ideal for use as decorative and functional mulch for annuals, perennials, shrubs, and trees. |
| <i>FiberRoot™</i> Mulch  | Used for | Erosion control applications Microbial and Sediment <i>FilterMitt™</i><br><i>EarthBlanket™</i> , also for woodland plant mulch.                                                                                     |

### *EarthBlanket™* DEPTHS FOR VARIOUS RAINFALL RATES

| Annual rainfall flow rate | Total precipitation (rainfall erosivity index) | <i>EarthBlanket™</i> depth (vegetated surface) | <i>EarthBlanket™</i> depth (unvegetated surface) |
|---------------------------|------------------------------------------------|------------------------------------------------|--------------------------------------------------|
| Low                       | 1 - 25 inches                                  | ½ - ¾ inch                                     | 1 – 1½ inches                                    |
|                           | (20 – 90)                                      | (12.5 – 19mm)                                  | (25 – 37.5mm)                                    |
| Average                   | 26 – 60 inches                                 | ¾ - 1 inch                                     | 1½ - 2 inches                                    |
|                           | (91 – 200)                                     | (25 – 50mm)                                    | (37 – 50mm)                                      |
| High                      | > 51 inches                                    | 1 - 2 inches                                   | 2 – 4 inches                                     |
|                           | (> 201)                                        | (25 – 50mm)                                    | (50 – 100mm)                                     |



# Certified Groundscapes Express Inc.

## 12 inch Sediment *FilterMitt*<sup>TM</sup>

### SLOPES, SLOPE LENGTHS, and *Filtermitt*<sup>TM</sup> DIAMETERS

**Step 1: Select annual rainfall flow rate from charts below.**

| Annual rainfall /flow rate | Precipitation/year (rainfall erosivity index) | <i>FilterMitt</i> <sup>TM</sup> diameter (inches) |
|----------------------------|-----------------------------------------------|---------------------------------------------------|
| Low                        | 1in. to 25 in.                                | 12"                                               |
| Average                    | 26 in. to 50 in.                              | 12" or 18"                                        |
| High                       | 51 in. and above                              | 18"                                               |

| State         | Annual rainfall inches / year 2008 |
|---------------|------------------------------------|
| Massachusetts | 43.84                              |
| Maine         | 43.52                              |
| Connecticut   | 44.39                              |
| New Hampshire | 36.53                              |
| Vermont       | 33.69                              |
| Rhode Island  | 41.91                              |

**Step 2: Pick slope percent and length in feet for job**

| Slope Percent | 9 inch | 12 inch | 18 inch | 24 inch | 32 inch |
|---------------|--------|---------|---------|---------|---------|
| 5% and less   | 375    | 475     | 525     | 625     | 725     |
| 10%           | 185    | 240     | 275     | 375     | 475     |
| 15%           | 130    | 160     | 185     | 300     | 425     |
| 20%           | 95     | 120     | 135     | 250     | 375     |
| 25%           | 75     | 85      | 90      | 185     | 250     |
| 30%           | 55     | 70      | 85      | 120     | 185     |
| 35%           | 50     | 65      | 75      | 100     | 140     |
| 40%           | 45     | 60      | 70      | 85      | 110     |
| 45%           | 40     | 50      | 55      | 75      | 85      |
| 50%           | 35     | 45      | 50      | 60      | 60      |
| 75%           | 20     | 30      | 35      | 40      | 45      |
| 100%          | 10     | 15      | 20      | 25      | 30      |

**Step 3: Pick *FilterMitt*<sup>TM</sup> diameter.**

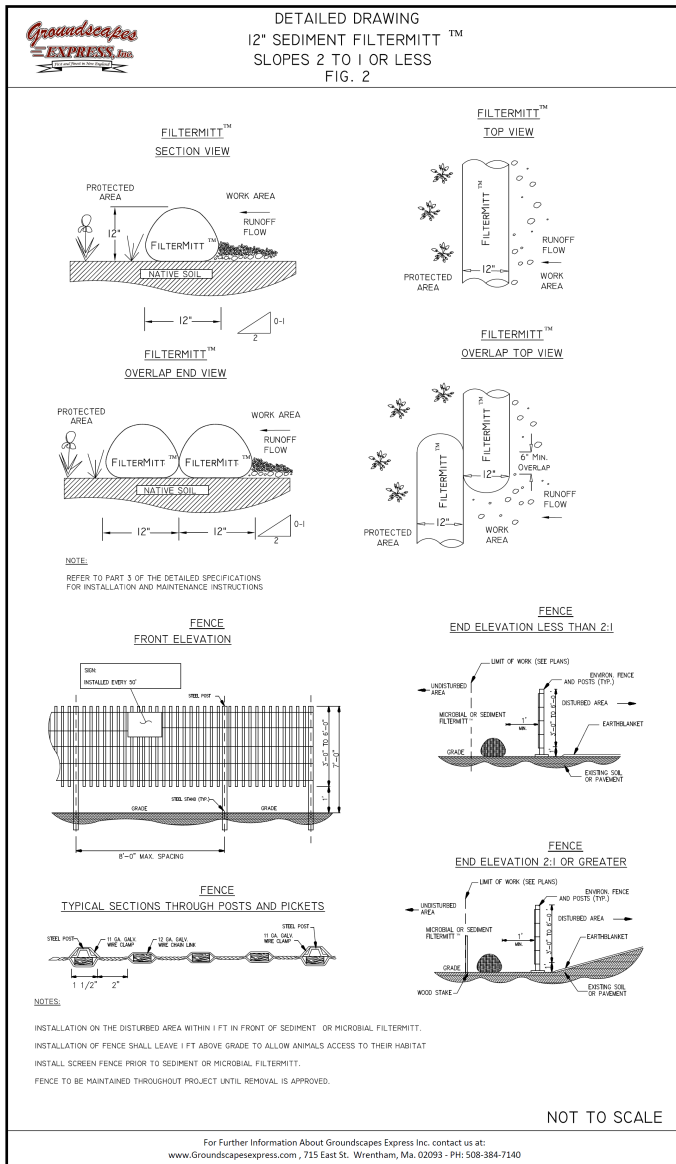
Note: For areas not accessible by truck, use Alternative method which can be carried by hand.

Note: *FilterMitts*<sup>TM</sup> Berms are used in areas where greater water flow is anticipated, used in conjunction with *FilterMitts*<sup>TM</sup>.

## Summary of 12 inch Sediment *FilterMitt*™ Detailed Drawings

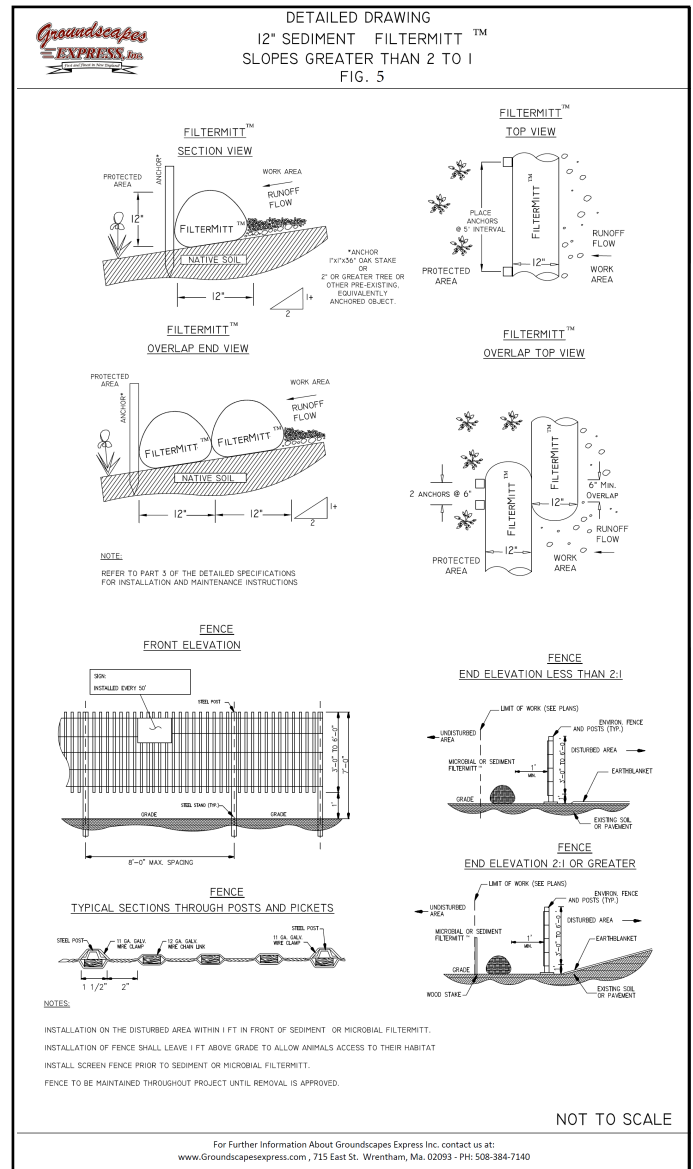
### 2:1 Slope or Less

**Fig. 2**



### 2:1 Slope or Greater

**Fig. 5**





# Certified Groundscapes Express Inc.

## 12 inch Sediment *FilterMitt™*

### GENERAL DESCRIPTIONS

|                                                                                                    | Page |
|----------------------------------------------------------------------------------------------------|------|
| <b>PART 1. – GENERAL</b>                                                                           |      |
| S 101 General Descriptions                                                                         | 7    |
| S 102 Material Inspection                                                                          | 9    |
| S 103 Monitoring & Documentation                                                                   | 10   |
| <b>PART 2. – PRODUCTS</b>                                                                          |      |
| S 201 Table 1. Performance & Design Specifications<br>Sediment <i>FilterMitt™</i>                  | 11   |
| S 202 Table 2. Physical & Chemical Specifications<br>Sediment <i>FilterMitt™</i>                   | 13   |
| S 203 Table 3. Biological Requirements<br>Sediment <i>FilterMitt™</i>                              | 14   |
| <b>PART 3. – INSTALLATION, MAINTENANCE, &amp; POST CONSTRUCTION</b><br>Sediment <i>FilterMitt™</i> |      |
| S 301 Material                                                                                     | 15   |
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| 12" Sediment <i>FilterMitt™</i> Figures 2 & 5                                                      | 19   |



# Certified Groundscapes Express Inc.

## 12 inch Sediment *FilterMitt™*

### PART 1. GENERAL DESCRIPTION Sediment *FilterMitt™*

#### S 101-1 MATERIAL:

##### A. Sediment *FilterMitt™*

Detains sediment, absorbs orders and degrades volatile organic compounds allows water by-pass, and is a food resource for beneficial microorganisms, which remediate by metabolizing wood preservatives, petroleum products, pesticides And both chlorinated and non chlorinated hydrocarbons in stormwater runoff from reaching water resources, prevents erosion and silting on embankments parallel to creeks, lakes, and rivers, prevents erosion and turf loss on roadsides, hillsides, playing fields, and golf courses.

##### B. Beneficial Microorganism Inoculation:

Need to meet the Groundscapes Express Inc. standards. See table 3.

##### C. Fence:

Use a Certified Groundscapes Express Inc. Professional. See Fig. 2 & 5.

#### S 101-2 INSTALLATION:

A. All Sediment Groundscapes Express Inc. application/installation must be done by a certified Groundscapes Express Inc. installer.

B. All invasive removals must be done by a Groundscapes Express Inc. professional.

C. All Sediment Groundscapes Express Inc. application/installation should be used for pre-construction, construction and post-construction.

D. Fence should be installed 1 Foot in front of *FilterMitt™* See Fig. 2 & 5.

#### S 101-3 MAINTENANCE:

A. Apply beneficial microorganisms to the Certified Groundscapes Express device every two months during the growing season to assure that the beneficial microorganisms meet the desired range as described in the Certified Groundscapes Express Inc. specifications. Only when meeting these desired ranges can you be sure the Groundscapes Express Inc. is remediation persistent contaminated pollutants found in the stormwater, as well as improving soil structure, and hydrological conductivity.

B. Apply beneficial microorganisms to improve the vigor and vitality of either planted or existing vegetation.

C. Remove any solid particles that have accumulated to one half the effective height of the stormwater filtering device.

D. Remove any invasive exotic or native vegetation that maybe disturbing the functioning of the stormwater filtering device.



**PART 1. GENERAL (Continued)**

**S 101- 4 BENEFICIAL MICROORGANISMS INOCULATION:**

- A. Improve soil pore space which increases water infiltration.
- B. Metabolizes pollutants which reduces contamination of water resources.
- C. Increase soil surface tension which reduces movement of soil particles.
- D. Increase water storage in soil which reduces water usage.
- E. Increase carbon storage in soils which helps clean air.
- F. Improve plant nutrients uptake which supports plant health.

**S 101- 5 INVASIVE REMOVAL:**

- A. Prior to permit approval and final inspection, we recommend developing a plan for stormwater maintenance and invasive plant control. Invasives reduce biodiversity, threaten native species, and often fail to stabilize soils.

**S 101- 6 USE:**

- A. Check dam & dikes
- B. Permanent & temporary erosion protection
- C. Vegetation & soil amendment





## **Certified Groundscapes Express Inc.**

### **12 inch Sediment *FilterMitt™***

#### **PART 1. GENERAL INSPECTION**

##### **S 102 – 1 MATERIAL INSPECTION:**

- A.** Installation Contractor submits a sample of materials [1 gallon] to a Certified Groundscapes Express Inc. Testing Lab. Phone # 1-508-384-7140
- B.** The “Certified Groundscapes Express...” Will send the Installation contractor, either a “Certificate of Materials Approval” or a list of recommendations that when completed as described will bring the existing materials into compliance with the criteria as set forth for Certified Groundscapes Express Inc.
- C.** Upon receipt of “Certificate of Materials Approval” from a Certified Groundscapes Express Inc. Testing Lab, the Installation Contractor will submit copies of the “Certificate “ to the design professional, the regulating agency, and the property owner, or whoever submitted the permit.
- D.** The Installation Contractor will notify the Regulating Agency of the time and day the work will begin.
- E.** A sample of the Materials On-Site will be taken by a Certified Professional Groundscapes Express Inspector, to verify that the materials that were “Certified” are the materials that are being installed.
- F.** The methods and procedures of the installation of the materials, as designed and specified in the Stormwater Pollution Prevention Plan will also be inspected, to assure that the installation also is in compliance.



# Certified Groundscapes Express Inc.

## 12" Sediment *FilterMitt™*

### PART 1. GENERAL

#### S 103-1 MONITORING and DOCUMENTATION

- A. The property owner or site contractor is required to monitor the stormwater control device after every significant rain event, as specified and designed in the SWPPP
- B. Any failures due to either the design or the installation of the devices shall be noted with a written, dated document and photographs
- C. The site contractor is to follow up with a Certified letter to the design professional and the Installation contractor, stating the date, and the location of the failure, preferably accompanied with photographs of the problem, requesting a site visit to resolve these issues within a timely manner.
- D. The stormwater control devices are to be inspected periodically to assure that they meet all project requirements as described in the Certified Groundscapes Express Inc. Manual and by a Certified Groundscapes Express Professional Inspector.



# Certified Groundscapes Express Inc.

## 12 inch Sediment *FilterMitt™*

### PART 2

#### S 201-1 PERFORMANCE and DESIGN SPECIFICATIONS

**TABLE 1**

| <b>Performance Design Diameter</b>        | <b>9 in.</b>                | <b>12 in.</b>               | <b>18 in.</b>               | <b>Testing Lab Reference</b> |
|-------------------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| Effective height                          | 9 in. plus or minus 1"      | 12 in. plus or minus 1"     | 13.5 in. plus or minus 1"   | Soil Control Lab Inc.        |
| Effective circumference                   | 25.1 in.                    | 38 in.                      | 56.5 in.                    | Soil Control Lab Inc.        |
| Density dry                               | 11.5 Lbs./per linear ft.    | 25.5 Lbs./per linear ft.    | 55.25 Lbs./per linear ft.   | Soil Control Lab Inc.        |
| Maximum sediment storage height           | 4 in.                       | 6 in.                       | 6.75 in.                    | Soil Control Lab Inc.        |
| Maximum continuous length                 | 1-100/per linear ft.        | 1-100/per linear ft.        | 1-100/per linear ft.        | Soil Control Lab Inc.        |
| Staking requirement 2:1 slope or greater  | Maximum every 10 linear ft. | Maximum every 10 linear ft. | Maximum every 10 linear ft. | Soil Control Lab Inc.        |
| Outside casing 100% biodegradable hessen  | 50% 7 Mill-50% 10 Mill      | 50% 7 Mill-50% 10 Mill      | 50% 7 Mill-50% 10 Mill      | Soil Control Lab Inc.        |
| Maintenance requirement (remove sediment) | 2 in.                       | 3 in.                       | 3.5 in.                     | Soil Control Lab Inc.        |
| Functional Longevity                      | 2 - 7 yrs.                  | 2 - 7 yrs.                  | 2 - 7 yrs.                  | Soil Control Lab Inc.        |
| Maximum Slope Length (<2%)                | 750 ft.                     | 1000 ft.                    | 1300 ft.                    | Soil Control Lab Inc.        |
| Hydraulic Flow Through Rate               | 6 -14 Gpm per linear ft.    | 6 -14 Gpm per linear ft.    | 6 -14 Gpm per linear ft.    | Soil Control Lab Inc.        |
| Total Solids Removal                      | 98%                         | 98%                         | 98%                         | Soil Control Lab Inc.        |



**Certified Groundscapes Express Inc.**  
**12 inch Sediment *FilterMitt™***

**PART 2**

**S 201- 2 PERFORMANCE and DESIGN SPECIFICATIONS**

**TABLE 1 (Continued)**

| <b>Performance Design Diameter</b> | 9 in. | 12 in. | 18 in. | <b>Testing Lab Reference</b> |
|------------------------------------|-------|--------|--------|------------------------------|
| Total Suspended Solids Removal     | 81%   | 81%    | 81%    | Soil Control Lab Inc.        |
| Turbidity Reduction                | 70%   | 70%    | 70%    | Soil Control Lab Inc.        |
| Total Phosphorus Removal           | n/a   | n/a    | n/a    | Soil Control Lab Inc.        |
| Nitrate N Removal                  | n/a   | n/a    | n/a    | Soil Control Lab Inc.        |
| Motor Oil Removal                  | n/a   | n/a    | n/a    | Soil Control Lab Inc.        |
| Iron (Fe) Removal                  | n/a   | n/a    | n/a    | Soil Control Lab Inc.        |
| Zinc (Zn) Removal                  | n/a   | n/a    | n/a    | Soil Control Lab Inc.        |
| Manganese (Mn) Removal             | n/a   | n/a    | n/a    | Soil Control Lab Inc.        |





# Certified Groundscapes Express Inc.

## 12 inch Sediment *FilterMitt™*

### PART 2

#### S 202 PHYSICAL and CHEMICAL REQUIREMENTS

TABLE 2

| Compost Parameters                                                                       | Test Method & Name Reported As                                                                                                | Requirement                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| pH                                                                                       | TMECC 04.11-A<br>Electrometric pH 1:5 Slurry Method pH Units                                                                  | 5.0-8.5                                                                                                                                                                                            |
| Soluble salts                                                                            | TMECC 04.10-A<br>Electrical Conductivity 1:5 Slurry Method<br>dS/m (mmhos/cm)                                                 | n/a                                                                                                                                                                                                |
| Moisture content                                                                         | TMECC 03.09-A<br>Total Solids & Moisture at 70+/- 5 deg C % Wet Weight Basis                                                  | < 60 %                                                                                                                                                                                             |
| Organic matter content                                                                   | TMECC 05.07-A<br>Matter Method. Loss on Ignition<br>Organic Matter Method<br>% Dry Weight Basis                               | 25 -100 %                                                                                                                                                                                          |
| Maturity percent emergence<br>%relative seedling vigor %<br>relative to positive control | TMECC 05.05-A<br>Biological Assays. Seedling<br>Emergence and Relative Growth                                                 | 100%<br>100%                                                                                                                                                                                       |
| Stability (respirometry)                                                                 | TMECC 05.08-B<br>Carbon Dioxide Evolution<br>Rate<br>mg CO <sub>2</sub> -C/g OM per day<br>mg CO <sub>2</sub> -C/g TS per day | < 8                                                                                                                                                                                                |
| Particle size                                                                            | TMECC 02.12-B<br>Sample Sieving for Aggregate<br>Size Classification<br>% Dry Weight Basis                                    | <u>Inches &amp; Percentage<br/>Passing</u><br>3" (75 mm) 98% to 100%<br>1" (25 mm) 90% to 100%<br>3/4"(19 mm) 70% to 100%<br>3/8"(10mm) 30% to 50%<br><u>Maximum particle size:</u><br>4" (100 mm) |
| Physical contaminants<br>(man made inert)                                                | TMECC 02.02-C<br>% dry weight basis                                                                                           | < 1%                                                                                                                                                                                               |
| Pathogen                                                                                 | TMECC 07.01-B<br>Fecal Coliform Bacteria<br><1000 MPN/gram dry wt.                                                            | Pass                                                                                                                                                                                               |
| Pathogen                                                                                 | TMECC 07.01-B<br>Salmonella<br><3 MPN/4 grams dry wt.                                                                         | Pass                                                                                                                                                                                               |



**Certified Groundscapes Express Inc.**  
**12 inch Sediment *FilterMitt™***

**PART 2**

**S 203 BIOLOGICAL REQUIREMENTS**

**TABLE 3**

| Property                | Test Method                     | Requirement Low-High |
|-------------------------|---------------------------------|----------------------|
| Active bacterial (mg/g) | DIC/ Epifluorescence Microscopy | Range n/a            |
| Total bacterial (mg/g)  | DIC/ Epifluorescence Microscopy | Range n/a            |
| Active fungal (mg/g)    | DIC/ Epifluorescence Microscopy | Range n/a            |
| Total fungal (mg/g)     | DIC/ Epifluorescence Microscopy | Range n/a            |



## Certified Groundscapes Express Inc. 12 inch Sediment *FilterMitt*<sup>TM</sup>

### PART 3. INSTALLATION, MAINTENANCE, & POST CONSTRUCTION

#### S 301 MATERIALS:

- A. FilterMitt casing material needs to meet Certified Groundscapes Express Inc. specifications in Table 1 ,100% organic Hessian fabric (burlap), this woven fabric facilitates a 1/16" - 3/8" opening, is 100% biodegradable, and does not need to be removed, as it will be thoroughly utilized as a microbial food resource and will become incorporated within the organic materials.
- B. Media inside the device needs to meet Groundscapes Express Inc. specifications in tables 1+2
- C. Certified Groundscapes Express Inc. Sediment *FilterMitt*<sup>TM</sup> benefits pre-construction, construction and post-construction phases of development.
- D. Certified Groundscapes Express Inc. Sediment *FilterMitt*<sup>TM</sup> specifications meet the highest performance criteria.
- E. Certified Groundscapes Express Inc. Sediment *FilterMitt*<sup>TM</sup> meets the AASHTO, EPA, State & Federal regulations.
- F. All Certified Groundscapes Express Inc. Sediment *FilterMitt*<sup>TM</sup> installations shall be done by a Groundscapes Express Inc. Certified Professional to assure that all the specifications as described, will be met, and the project will succeed as it was designed.
- G. Using Certified Groundscapes Express Inc. Sediment *FilterMitt*<sup>TM</sup> for pre-construction, construction and post construction development means that the erosion control devise can be made on site with little or no soil disturbance, or compaction, or it can be delivered in varying section lengths, pre-filled and placed into position where it is needed most. This saves on installation time and costs, as well as environmental impacts.



# Certified Groundscapes Express Inc.

## 12 inch Sediment *FilterMitt*<sup>TM</sup>

### PART 3.

## INSTALLATION, MAINTENANCE, & POST CONSTRUCTION

### S 302 INSTALLATION:

- A. All Certified Groundscapes Express Inc. Sediment *FilterMitt*<sup>TM</sup> installations shall be done by a Groundscapes Express Inc. Certified Professional.
- B. If installation is not done by a Certified Groundscapes Express Inc. Certified Professional, then the installation of the project may not comply with the design specifications and performance standards; the project will be declined.
- C. A Certified Groundscapes Express Inc. Sediment *FilterMitt*<sup>TM</sup> can be constructed on site or delivered prefilled: minimal on site labor time.
- D. Can be tailored to site requirements; individual units can be made in lengths from 1-100 linear feet.
- E. When the Certified Groundscapes Express Inc. Sediment *FilterMitt*<sup>TM</sup> is properly installed, water will not be able to bypass around the ends.
- F. Because the Certified Groundscapes Express Inc. Sediment *FilterMitt*<sup>TM</sup> conforms to the grade, there is no need to re-grade with heavy equipment which causes soil disturbance and creates conditions for more erosion.
- G. The movement of heavy equipment compacts the soil which increases flow rate and damages soil structure making it more difficult to establish seed germination.
- H. Staking with hardwood stakes at maximum 10 foot intervals ensures stability against water flow for slopes 2-1 and greater. Ends of individual Certified Groundscapes Express Inc. Sediment *FilterMitt*<sup>TM</sup> are overlapped or **sleeved** based on site conditions and staked to ensure integrity on slopes 2:1 or greater. End stakes should be placed no more than one foot from terminal ends on slopes 2:1 or greater. See Figure 4 page 20.
- I. Protective fencing is recommended to protect structures from construction disturbance, or vehicle and foot traffic. Fence should be placed in front of the Certified Groundscapes Express Inc. Sediment *FilterMitt*<sup>TM</sup>.

See Figure 2 & 5 pages 19 and 20.



# Certified Groundscapes Express Inc.

## 12 inch Sediment *FilterMitt™*

### PART 3.

## INSTALLATION, MAINTENANCE, & POST CONSTRUCTION

### S 303 MAINTENANCE:

- A. To ensure proper functioning, regular inspections, and if necessary, maintenance should take place after installation. Sediment *FilterMitt™* should be inspected immediately by contractor or agent after each rainfall-producing event, and at least daily during prolonged rainfall events. Proper functioning and sediment accumulation should be checked during inspection. Deposited sediments should be removed by contractor, when the level of the deposition reaches approximately one half the effective height of the Sediment *FilterMitt™*.
- B. Identify and remove all invasive plants within the area defined by the order of conditions footprint once per month during growing season.
- C. Apply Beneficial Microorganisms to improve the vigor and vitality of either planted or existing native vegetation.
- D. Remove any invasive exotic or native vegetation that may be disturbing the functioning of the stormwater filtering device.





# Certified Groundscapes Express Inc.

## 12 inch Sediment *FilterMitt™*

### S PART 3.

## INSTALLATION, MAINTENANCE, & POST CONSTRUCTION

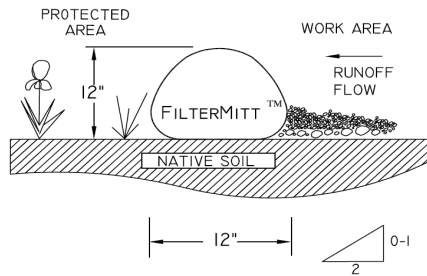
### S 304 POST CONSTRUCTION:

- A. Leave in place to continue filtering pollutants from storm water run-off.
- B. Rake by hand, {no machine for spreading} material used as a soil amendment on existing site.
- C. **Certification Disclaimer:**

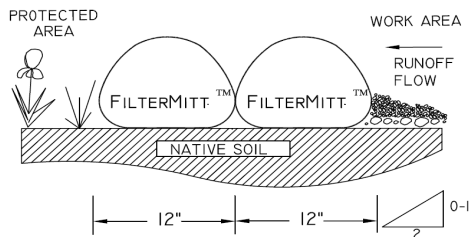
Groundscapes Express Inc. warrants only that any product which has been certified and meets Certified Groundscapes Express Inc. "Certification Program" criteria for such certification and except as expressly set forth herein: Groundscapes Express Inc. Makes no warranty, express or implied as to any product which has not been certified under the Groundscapes Express Inc. "Certification Program", including any warranty as to merchantability or fitness for a particular purposed and Groundscapes Express Inc. hereby expressly disclaims all other warranties; Groundscapes Express Inc. shall not be liable for any loss, injury, claim, liability, or damage of any kind resulting in any way from any errors, omissions, content, information, opinions or assessments contained in the Groundscapes Express Inc. "Certification Program"; and, Groundscapes Express Inc. shall not be liable, in any event for any incidental, consequential, special, exemplary or punitive damages (including without limitation for lost data, lost profits or loss of goodwill) of any kind or nature arising out of the certification of any product under the Groundscapes Express Inc. "Certification Program", whether such liability is asserted on the basis of contract, tort, or otherwise, even if Groundscapes Express Inc. has been made aware of the possibility of such loss or damage in advance.

DETAILED DRAWING  
12" SEDIMENT FILTERMITT™  
SLOPES 2 TO 1 OR LESS  
FIG. 2

FILTERMITT™  
SECTION VIEW



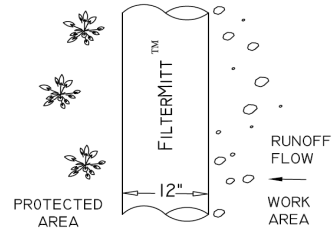
FILTERMITT™  
OVERLAP END VIEW



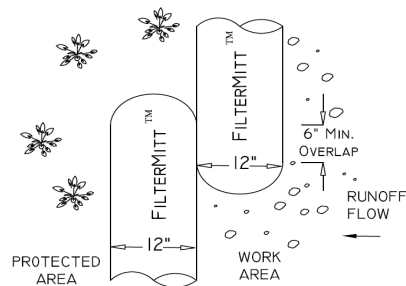
NOTE:

REFER TO PART 3 OF THE DETAILED SPECIFICATIONS  
FOR INSTALLATION AND MAINTENANCE INSTRUCTIONS

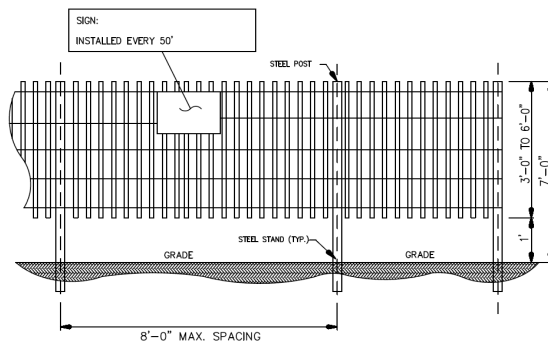
FILTERMITT™  
TOP VIEW



FILTERMITT™  
OVERLAP TOP VIEW



FENCE  
FRONT ELEVATION



FENCE  
TYPICAL SECTIONS THROUGH POSTS AND PICKETS



NOTES:

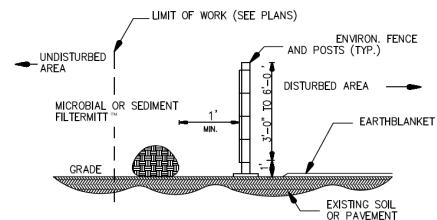
INSTALLATION ON THE DISTURBED AREA WITHIN 1 FT IN FRONT OF SEDIMENT OR MICROBIAL FILTERMITT.

INSTALLATION OF FENCE SHALL LEAVE 1 FT ABOVE GRADE TO ALLOW ANIMALS ACCESS TO THEIR HABITAT

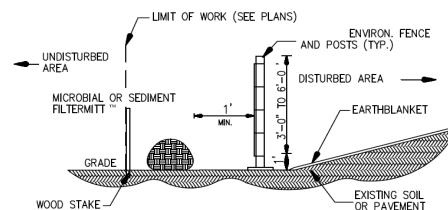
INSTALL SCREEN FENCE PRIOR TO SEDIMENT OR MICROBIAL FILTERMITT.

FENCE TO BE MAINTAINED THROUGHOUT PROJECT UNTIL REMOVAL IS APPROVED.

FENCE  
END ELEVATION LESS THAN 2:1

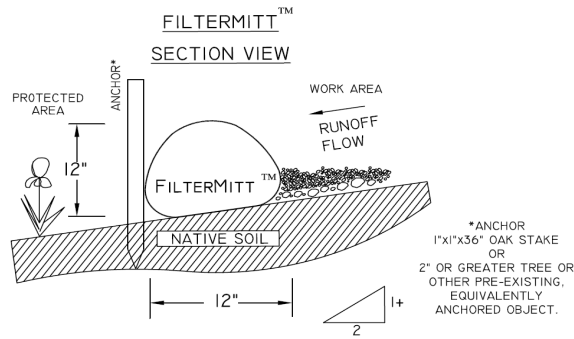


FENCE  
END ELEVATION 2:1 OR GREATER

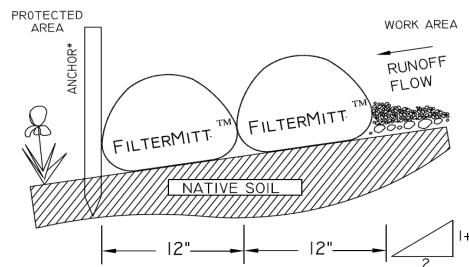


NOT TO SCALE

DETAILED DRAWING  
12" SEDIMENT FILTERMITT™  
SLOPES GREATER THAN 2 TO 1  
FIG. 5

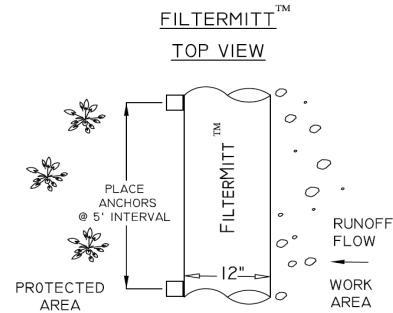


**FILTERMITT™ OVERLAP END VIEW**

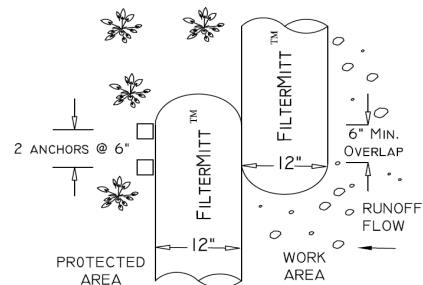


**NOTE:**

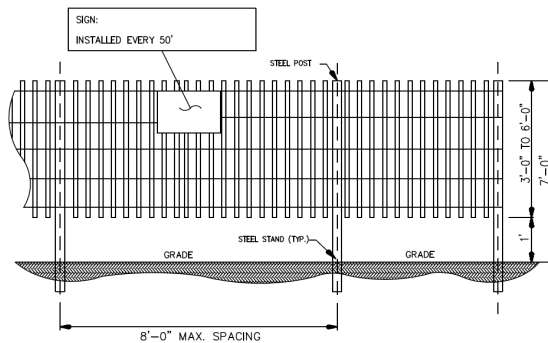
REFER TO PART 3 OF THE DETAILED SPECIFICATIONS  
FOR INSTALLATION AND MAINTENANCE INSTRUCTIONS



**FILTERMITT™ OVERLAP TOP VIEW**



**FENCE FRONT ELEVATION**



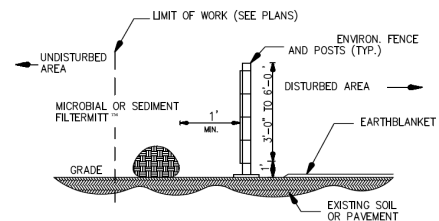
**FENCE TYPICAL SECTIONS THROUGH POSTS AND PICKETS**



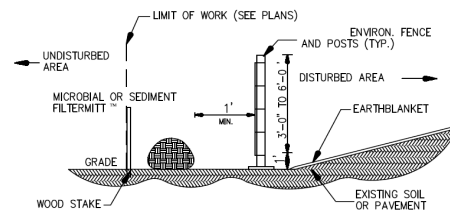
**NOTES:**

- INSTALLATION ON THE DISTURBED AREA WITHIN 1 FT IN FRONT OF SEDIMENT OR MICROBIAL FILTERMITT.
- INSTALLATION OF FENCE SHALL LEAVE 1 FT ABOVE GRADE TO ALLOW ANIMALS ACCESS TO THEIR HABITAT
- INSTALL SCREEN FENCE PRIOR TO SEDIMENT OR MICROBIAL FILTERMITT.
- FENCE TO BE MAINTAINED THROUGHOUT PROJECT UNTIL REMOVAL IS APPROVED.

**FENCE END ELEVATION LESS THAN 2:1**



**FENCE END ELEVATION 2:1 OR GREATER**



NOT TO SCALE