



SWPPP Cut Sheet

Last Updated: 1-1-08

Section 1: Erosion and Sediment Control – Construction Activities

1.8 Filtrex Compost Erosion Control Blanket™ (CECB™)

Slope Stabilization & Erosion Control Technology

PURPOSE & DESCRIPTION

Filtrex Compost Erosion Control Blankets™ (CECBs™) are a **slope stabilization, erosion control, and vegetation establishment** practice used on hill slopes to stabilize bare, disturbed, or erodable soils on and around construction activities. CECBs™ are used for temporary and permanent erosion control and vegetation establishment applications. CECBs™ are surface applied to a depth of 1.5 to 2 in (35-50mm) or 200-270 cubic yards/ac (385-513 cubic m/ha), and normally applied to hill slopes with pneumatic blower trucks/similar equipment. Filtrex Support Practices, LockDown™ Netting and ProFloxx™, are used to increase the stabilization and erosion control capabilities of CECBs™. LockDown™ Netting is a single net erosion control blanket stapled to the slope prior to application of CECB™. ProFloxx™ is an all-natural polymer applied to the surface of the CECB™ to further reduce turbidity and suspended solids in runoff.

APPLICATION

Filtrex Compost Erosion Control Blankets™ are used for slope stabilization, erosion control and vegetation establishment on disturbed, bare, or highly erodable soils during land disturbing and construction activities. CECBs™ are typically used after final grading for temporary or permanent seeding applications. Custom seed mixes may be added to the CECB™ and applied directly to the slope. Non-seeded applications shall be considered a temporary form of erosion control. CECBs™ can be used on slopes up to 2:1 without the use of additional soil stabilizers or support practices. Slopes greater than 2:1 require the use of LockDown™ Netting or ProFloxx™ support practices. CECBs™ should not be used in areas of concentrated runoff flow. Filtrex Slope Interruption Soxx™ may be used with CECBs™ to reduce effective slope lengths, runoff velocity, and the potential for rill erosion. Filtrex Support Practices™ can be used to increase the performance and area of acceptable application for CECBs™.

INSTALLATION

1. CECBs™ used for slope stabilization, erosion control, and vegetation estab. shall meet Filtrex CECB™ specifications and use Filtrex GrowingMedia™.
2. Contractor is required to be a Filtrex Certified™ Installer as determined by Filtrex International, LLC (440-926-8041 or visit website at www.filtrex.com). Certification shall be considered current if appropriate identification is shown during time of bid or at time of application (current list can be found at www.filtrex.com). Look for the Filtrex Certified™ Installer Seal.
3. CECBs™ will be placed at locations indicated on plans as directed by the Engineer.
4. CECBs™ shall be applied to 100% of the area where erosion control and vegetation is required.
5. CECBs™ shall cover 100% of the bare or disturbed soil area, whereas, no native soil shall be visible in or through the CECB.
6. CECBs™ shall be applied at a minimum depth of 1.5-2 in (35-50mm) or 200-270 cubic yards/ac (385-513 cubic m/ha), as specified by the engineer.
7. Seed shall be thoroughly mixed with the GrowingMedia™ prior to application or surface applied to GrowingMedia™ at time of application.
8. CECBs™ shall not be installed in areas of concentrated runoff flow.
9. CECBs™ shall be installed at least 10 ft (3m) over/beyond slope shoulder and/or into existing vegetation to ensure runoff does not undercut the blanket.
10. CECBs™ installed on slopes: greater than or equal to 4:1 shall be tracked; greater than or equal to 2:1 shall be tracked and use LockDown™ Netting; greater than 1:1 shall use erosion control blankets or turf reinforcement mats.
11. When required, LockDown™ Netting shall be installed prior to the application of the CECB™.
12. LockDown™ Netting shall be anchored to the soil using 6-8 in (150-200mm) sod staples to be driven along the entire perimeter of the net and netting area.
13. Staples for LockDown™ Netting shall be spaced no more than 24 in (600mm) apart on all sides.
14. Where more than 1 roll of LockDown™ Netting is required for slope width/slope length, netting edges shall overlap by a minimum of 6 in (150mm).
15. LockDown™ Netting shall be installed from top to bottom (never across) on the slope.
16. LockDown™ Netting shall be installed under the entire area of the CECB™, including 10 ft (3m) over the shoulder of the slope.
17. LockDown™ Netting may be installed on top of the CECB™ where wind velocities and wind erosion are above normal. All other installation procedures and specifications are the same as described above.
18. Where required, ProFloxx™ shall be surface applied or broadcast over the entire area of the CECB™.
19. ProFloxx™ shall be applied at a rate of 2.5 lbs per 1000 sq. ft. (12 g per sq. m)
20. ProFloxx™ shall not be applied within 25 ft (7.5m) of receiving stream, river, lake, or wetland.

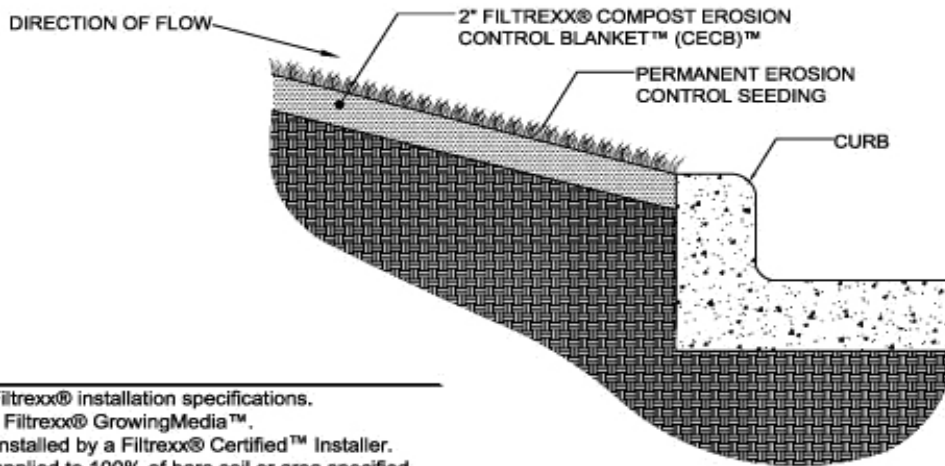
INSPECTION and MAINTENANCE

Routine inspection should be conducted within 24 hrs of a runoff event or as designated by the regulating authority. If rilling occurs or vegetation does not establish, the area of application should be reapplied. The use of runoff diversion devices, erosion control support practices, soil stabilizers, turf reinforcement mats, or hard armoring practices should be considered. CECBs™ should be inspected until permanent vegetation is established and land disturbing/construction activities have ceased. Temporary and permanent vegetation practices should be inspected for noxious/invasive weeds. Any area not covered by vegetation should be reseeded. LockDown™ Netting should be repaired if moved by wind/storm runoff and/or part or whole is not in contact w/ soil surface.

1. The Contractor shall maintain the Compost Erosion Control Blanket™ in a functional condition at all times and it shall be routinely inspected.
2. CECBs™ shall be maintained until a minimum of 70% uniform cover of the applied area has been vegetated or as required by the jurisdictional agency, and land disturbing/construction activities have ceased.
3. CECBs™ may need to be irrigated during hot and dry weather, or arid and semi-arid climates to ensure vegetation establishment.
4. Where a CECB™ fails, rilling occurs, or vegetation does not establish the Contractor will repair or provide an approved and functioning alternative.
5. If gullies form in CECB™, the area shall be re-graded prior to reinstallation of CECB™ or alternative.
6. If a CECB™ is damaged by storm water runoff, runoff diversion devices installed above the CECB™ may be required.
7. If LockDown™ Netting has been moved by wind or runoff it shall be repaired by restoring contact between soil and CECB™ interface; additional staples and CECB™ application may be required.
8. Once vegetation is established in temporary applications, final seeding and/or permanent vegetation may not be required.
9. No additional fertilizer or lime is required for vegetation establishment and maintenance; No disposal is required for this product/practice.

Figure 8.1. Engineering Design Details for Compost Erosion Control Blanket™

FILTREXX® COMPOST EROSION CONTROL BLANKET™ (CECB)™



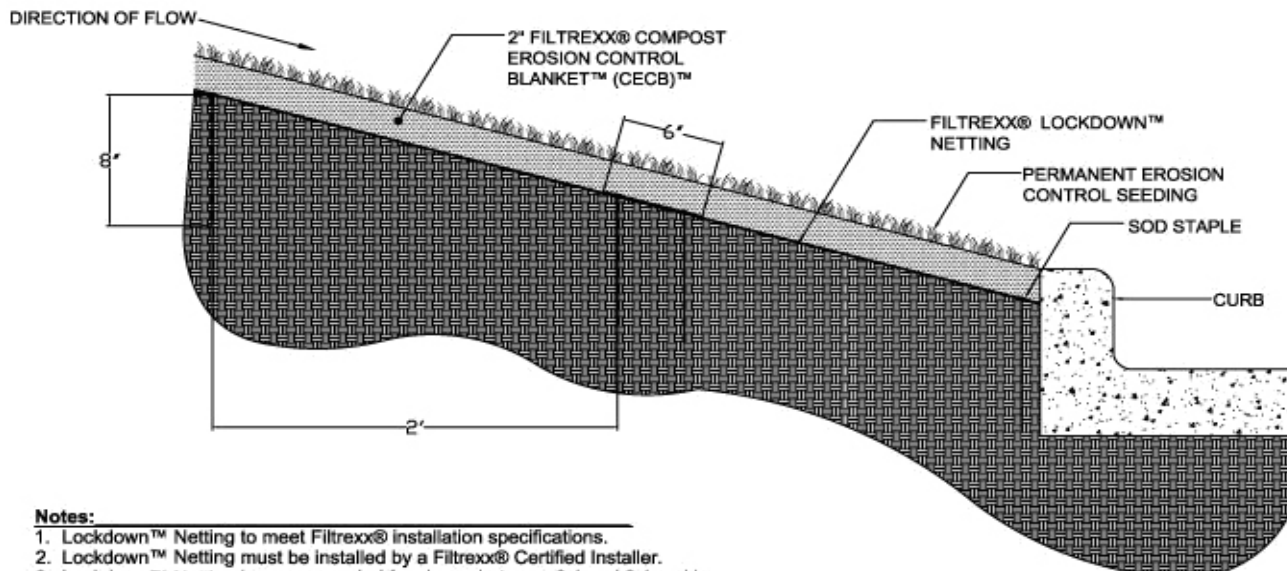
CECB™ Section View

Notes:

1. CECB™ to meet Filtrexx® installation specifications.
2. CECB™ must use Filtrexx® GrowingMedia™.
3. CECB™ must be installed by a Filtrexx® Certified™ Installer.
4. CECB™ shall be applied to 100% of bare soil or area specified.
5. CECB™ shall be installed at least 10 feet over the slope shoulder or into existing vegetation.
6. Erosion control seeding shall meet jurisdictional agency specifications or will be at the discretion of the engineer.
7. CECB™ shall not be installed in areas of concentrated flow where max. flow exceeds 4 CFS or shear stress exceeds 2lbs./sq. ft.
8. CECB™ installed on slopes greater than 2:1 shall use additional slope stabilization practices, such as Filtrexx® Lockdown™ Netting or Filtrexx® ProFloxx™.

Figure 8.2. Engineering Design Details for LockDown™ Netting™.

FILTREXX® LOCKDOWN™ NETTING



Section View

Notes:

1. Lockdown™ Netting to meet Filtrexx® installation specifications.
2. Lockdown™ Netting must be installed by a Filtrexx® Certified Installer.
3. Lockdown™ Netting is recommended for slopes between 3:1 and 2:1 and is required for slopes greater than 2:1.
4. Lockdown™ Netting is not sufficient to be used alone as a form of slope stabilization or erosion control; Lockdown™ Netting shall be installed prior to the application of CECB™.
5. Lockdown™ Netting shall be anchored to the soil using 8" sod staples to be driven along the entire perimeter of the netting area.
6. Staples for Lockdown™ Netting shall be spaced no more than 24" apart on all sides.
7. Where more than on roll of Lockdown™ Netting is required for slope length or slope width, netting edges shall be overlapped by a minimum of 6".
8. Lockdown™ Netting shall be installed from top to bottom (never across) on the slope.
9. Lockdown™ Netting shall be installed under the entire area of the CECB™, including 10 feet over the shoulder of the slope.