

PURPOSE & DESCRIPTION

Filtrex[®] Compost Erosion Control Blanket [CECB][™] is 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. CECB is used for temporary and permanent slope erosion control and vegetation establishment applications. CECB is 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 or similar equipment. Filtrex[®] LockDown[™] Netting can be used to increase the stabilization and erosion control capabilities of CECB. LockDown Netting is a single net erosion control blanket stapled to the slope prior to application of the CECB (Section 5.4).

APPLICATION

CECB is used for slope stabilization, erosion control and vegetation establishment on disturbed, bare, or highly erodable soils during land disturbing and construction activities. CECB is 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. CECB can be used on slopes up to 2:1 without the use of additional soil stabilizers. Slopes greater than 2:1 require the use of LockDown Netting. CECB should not be used in areas of concentrated runoff flow. Filtrex[®] SiltSoxx[™] for slope interruption may be used with CECB to reduce effective slope lengths, runoff velocity, and the potential for rill erosion. See Figure 1.1 for an example of CECB.

INSTALLATION

1. CECB used for slope stabilization, erosion control, and vegetation establishment shall meet Filtrex CECB and Filtrex GrowingMedia specifications.
2. Call Filtrex at 877-542-7699 or visit www.filtrex.com for a current list of installers and distributors of Filtrex products.
3. CECB will be placed at locations indicated on plans as directed by the Engineer.
4. CECB shall be applied to 100% of the area where erosion control and vegetation is required.
5. CECB shall cover 100% of the bare or disturbed soil area, whereas, no native soil shall be visible in or through the CECB.
6. CECB 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. CECB shall not be installed in areas of concentrated runoff flow.
9. CECB shall be installed at least 10 ft (3m) over and beyond the shoulder of the slope and/or into existing vegetation to ensure runoff does not undercut the blanket.
10. CECB 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 slope protection.
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 one roll of LockDown Netting is required for slope width or slope length, netting edges shall be overlapped 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.

INSPECTION & 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 with CECB. If failure continues, the use of runoff diversion devices, erosion control support practices, soil stabilizers, turf reinforcement mats, or hard armoring practices should be considered. CECB should be inspected until permanent vegetation is established and land disturbing/construction activities have ceased. Temporary and permanent vegetation practices should always be inspected for noxious or invasive weeds. Any area not covered by vegetation should be reseeded. LockDown Netting should be repaired if it has been moved by wind or storm runoff and/or part or whole is not in contact with the soil surface.

1. The Contractor shall maintain the CECB in a functional condition at all times and it shall be routinely inspected.
2. CECB 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. CECB may need to be irrigated during hot and dry weather, or arid and semi-arid climates to ensure vegetation establishment.
4. Where 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 slope protection 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.
10. No disposal is required for this product/practice.

ADDITIONAL INFORMATION

For other references on this topic, including additional research reports and trade magazine and press coverage, visit the Filtrexx website at filtrexx.com

Filtrexx International, Technical Support
877-542-7699 | www.filtrexx.com | info@filtrexx.com
Call for complete list of international installers and distributors.

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Figure 8.1. Engineering Design Details for Compost Erosion Control Blanket [CECB]

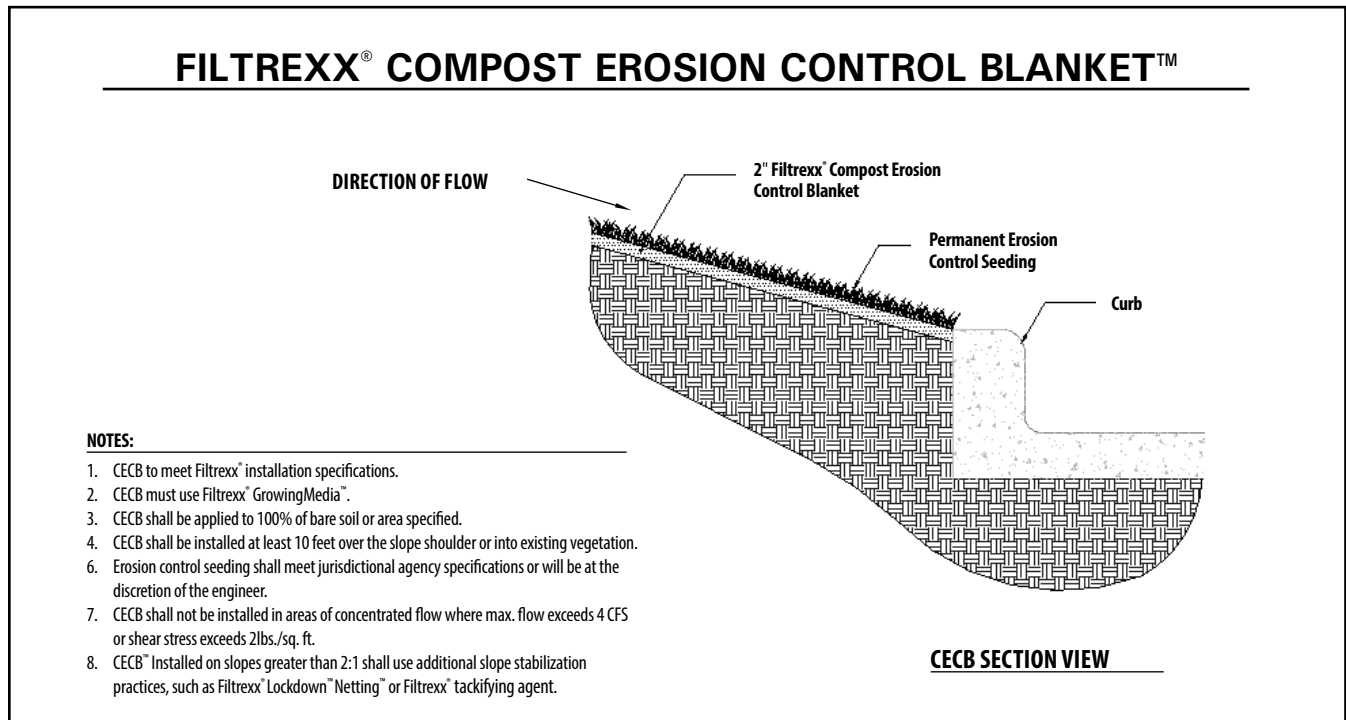


Figure 8.2. Engineering Design Details for LockDown™ Netting.

