

SWPPP Cut Sheet:

Filtrex[®] Slope protection

Slope Stabilization & Erosion Control Technology

PURPOSE & DESCRIPTION

Filtrex[®] Slope protection 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. Slope protection is used for temporary and permanent erosion control and vegetation establishment applications. Slope protection 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/similar equipment. Filtrex[®] Support Practices, LockDown[™] Netting and Tackifying agent, are used to increase the stabilization and erosion control capabilities of Slope protection. LockDown[™] Netting is a single net erosion control blanket stapled to the slope prior to application of Slope protection. Tackifying agent is an all-natural polymer applied to the surface of the Slope protection to further reduce turbidity and suspended solids in runoff.

APPLICATION

Filtrex[®] Slope protection is used for slope stabilization, erosion control and vegetation establishment on disturbed, bare, or highly erodable soils during land disturbing and construction activities. Slope protection is typically used after final grading for temporary or permanent seeding applications. Custom seed mixes may be added to the Slope protection and applied directly to the slope. Non-seeded applications shall be considered a temporary form of erosion control. Slope

protection 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 Tackifying agent support practices. Slope protection should not be used in areas of concentrated runoff flow. Filtrex[®] Slope interruption may be used with Slope protection 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 Slope protection.

INSTALLATION

1. Slope protection used for slope stabilization, erosion control, and vegetation estab. shall meet Filtrex[®] Slope protection 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. Slope protection will be placed at locations indicated on plans as directed by the Engineer.
4. Slope protection shall be applied to 100% of the area where erosion control and vegetation is required.



5. Slope protection shall cover 100% of the bare or disturbed soil area, whereas, no native soil shall be visible in or through the Slope protection.
6. Slope protection 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. Slope protection shall not be installed in areas of concentrated runoff flow.
9. Slope protection 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. Slope protection 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 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 Slope protection, including 10 ft (3m) over the shoulder of the slope.
17. LockDown™ Netting may be installed on top of the Slope protection where wind velocities and wind erosion are above normal. All other installation procedures and specifications are the same as described above.
18. Where required, Tackifying agent shall be surface applied or broadcast over the entire area of the Slope protection.
19. Tackifying agent shall be applied at a rate of 2.5 lbs per 1000 sq. ft. (12 g per sq. m).
20. Tackifying agent shall not be applied within 25ft (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. Slope protection 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 Slope protection in a functional condition at all times and it shall be routinely inspected.
2. Slope protection 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. Slope protection may need to be irrigated during hot and dry weather, or arid and semi-arid climates to ensure vegetation establishment.
4. Where a Slope protection fails, rilling occurs, or vegetation does not establish the Contractor will repair or provide an approved and functioning alternative.
5. If gullies form in Slope protection, the area shall be re-graded prior to reinstallation of Slope protection or alternative.
6. If Slope protection is damaged by storm water runoff, runoff diversion devices installed above the Slope protection may be required.
7. If LockDown™ Netting has been moved by wind or runoff it shall be repaired by restoring contact between soil and Slope protection interface; additional staples and Slope protection 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 Slope Protection

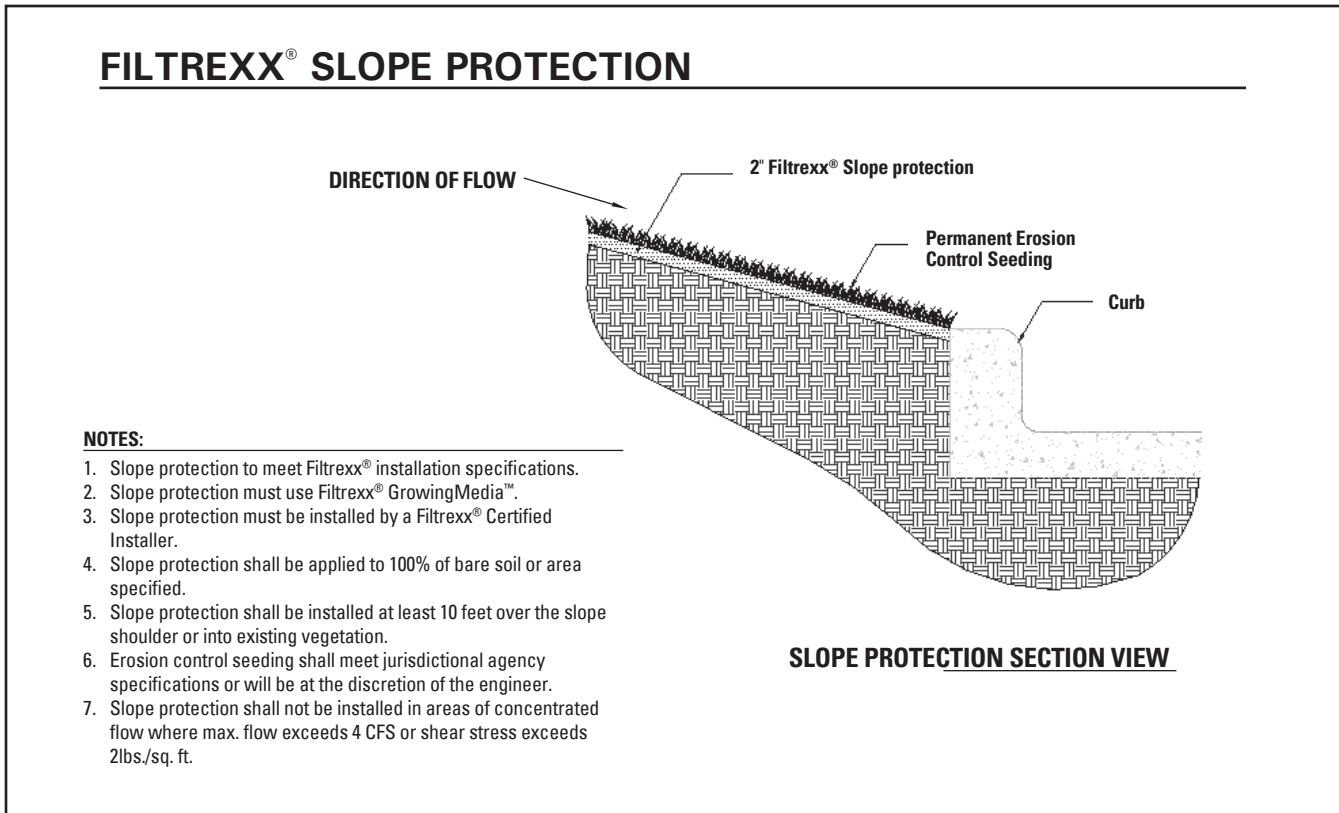


Figure 8.2. Engineering Design Details for LockDown™ Netting™.

