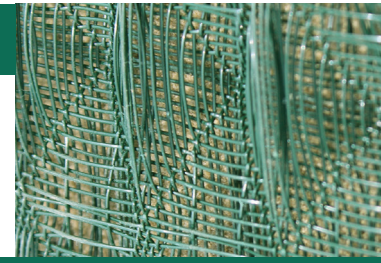




## High Performance Turf Reinforcement Mat (HP-TRM)



### General Procedure

Prepare a stable and firm soil surface according to the design grade and profile that is free of rocks, debris, and other obstructions. Typically, HP-TRMs are unrolled down the slope parallel to the primary direction of flow (See Figure A). Ensure the HP-TRM maintains intimate contact with the soil surface over the entirety of the installation (See Figure G). Do not stretch or allow material to bridge over surface inconsistencies. Staple/anchor HP-TRMs to soil ensuring that each staple/anchor is flush with underlying soil. Staple/anchor length and type for securing HP-TRMs to the soil should be based on site-specific conditions as specified by the engineer or designer (See Figure D).

### Seeding

If seeding is required for the project, follow the project design requirements and any state, local or other regulatory agency requirements that are applicable.

Install HP-TRMs after application of seed, fertilizer, mulches (if necessary) and other necessary soil amendments, unless soil in-filling of the HP-TRM is required. For HP-TRMs if soil in-filling, install HP-TRMs, apply seed, and other soil amendments lightly brush or rake 0.3 inches (8 mm) of topsoil into HP-TRM matrix to fill the HP-TRM's thickness.

If in-filling with a hydraulically-applied matrix or medium is required; install HP-TRM, then install hydraulically-applied matrix or medium at the manufacturer's suggested application rate and follow all manufacturer's instructions for hydraulically-applied matrix installation.

### Anchor Trench at Beginning of Slope and Along Side Slopes

Excavate a minimum 6 in. by 6 in. (150 mm by 150 mm) anchor trench. Extend the upslope terminal end of the HP-TRMs 3 ft. (900 mm) past the anchor trench (See Figure F). Use staples/anchors to fasten the HP-TRM into the bottom of the anchor trench on 1 ft. (300 mm) centers. The project engineer may recommend an alternate anchoring system due to site specific conditions. Backfill the trench and compact the soil into the anchor trench. Apply seed and any necessary soil amendments to the compacted soil and cover with remaining 1 ft. (300 mm) terminal end of the HP-TRMs. Fold the HP-TRM over compacted soil in anchor trench to overlap downslope material. Secure terminal end of HP-TRMs with a single row of staples/anchors on 1 ft. (300 mm) centers. Secure the downstream HP-TRM with the staple/anchor pattern shown below (See Figure E).

### Seams – utilize one of the methods detailed below for seaming of the HP-TRMs

#### (1) Adjacent seams.

Overlap edges of adjacent HP-TRMs by a minimum 3 in. (75 mm). Use a sufficient number of staples/anchors to prevent seam from separating (See Figures B and C).

#### (2) Consecutive rolls.

Shingle and overlap consecutive rolls a minimum 6 in. (150 mm) in the direction of flow. Secure staples/anchors through seam at 1 ft. (300 mm) intervals (See Figures B and C). Factory seams should be secured in the same manner as consecutive rolls.

### Slope Interruption Check Slot

Excavate a trench measuring a minimum 6 in. wide by 6 in. deep (150 x 150 mm). Secure HP-TRM to the bottom of the trench. Fold HP-TRMs over upslope material and fill and compact the trench on the downslope side of check slot and seed fill. Continue rolling material downslope over trench. Additional staples/anchors are also useful in areas that may have the presence of mowers or foot traffic (See Figure "H").

### Terminal Ends

Install the HP-TRMs 3 ft. (900 mm) beyond the end of the channel. Excavate a min 6 in. x 12 in. (150 mm by 300 mm) anchor trench. Anchor HPTRM with a min 6 in. (150mm) staple/anchor or larger per engineer's recommendation and secure end with a single row of staples/anchors on 1 ft. (300-mm) centers (See Figure "I").

**Disclaimer:** WINFAB assumes no liability for the completeness or accuracy of this information or the ultimate use of this information. WINFAB disclaims any and all implied, expressed, or statutory standards, guarantees, or warranties. This includes without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to equipment, materials, or information furnished herewith. This document should not be construed as engineering advice. Always consult the project engineer for project specific requirements. The end user assumes sole responsibility for the use of this information and product. The values listed above are subject to change without notice.

© 2017 WINFAB

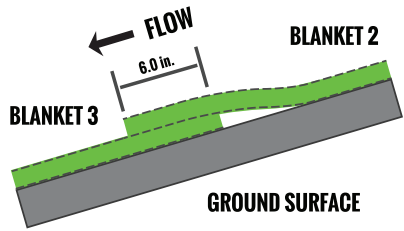


Figure B - Profile View

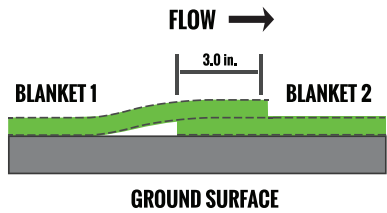


Figure C - Cross Section View

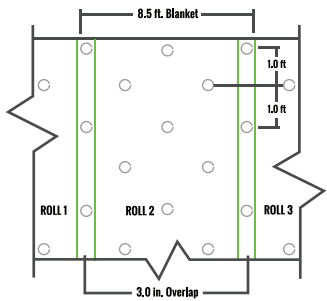


Figure D - Plan View

\* Drawings Not to Scale

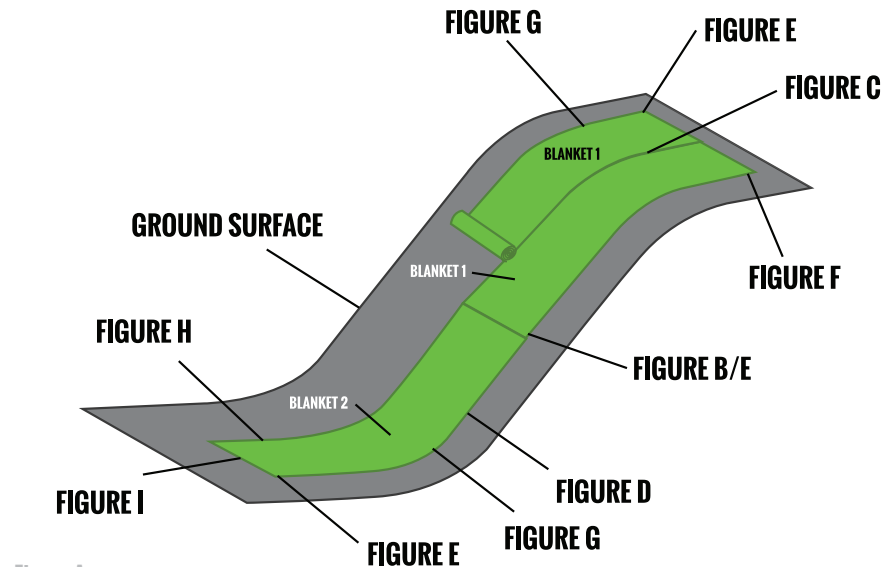


Figure A

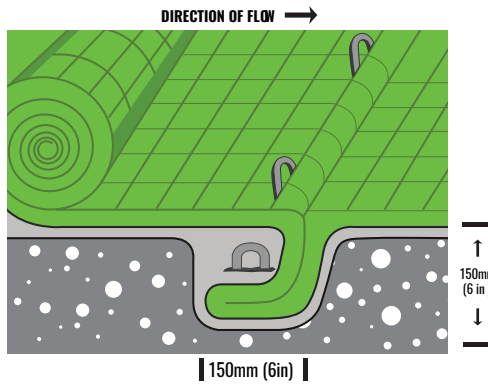


Figure H

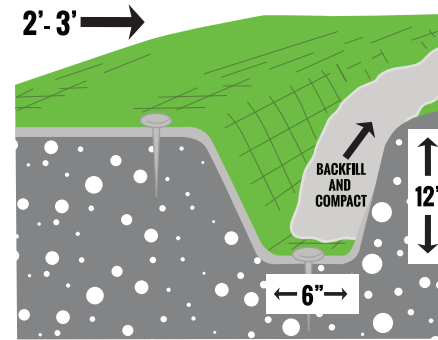


Figure I

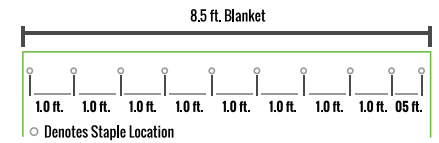


Figure E - Plan View

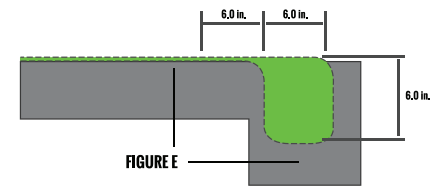


Figure F - Profile View

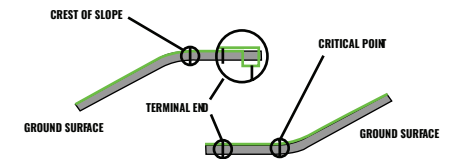


Figure G - Critical Point Securing

**Disclaimer:** WINFAB assumes no liability for the completeness or accuracy of this information or the ultimate use of this information. WINFAB disclaims any and all implied, expressed, or statutory standards, guarantees, or warranties. This includes without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to equipment, materials, or information furnished herewith. This document should not be construed as engineering advice. Always consult the project engineer for project specific requirements. The end user assumes sole responsibility for the use of this information and product. The values listed above are subject to change without notice.

© 2017 WINFAB