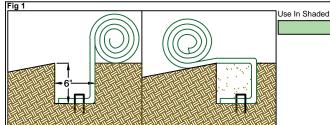
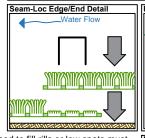
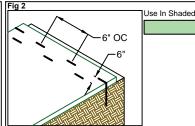
ShearForce10 Hybrid Turf Instant Armor Mat Installation Guide for Slopes (Not To Scale)

		Soil Type	*Min
		Cohesive, well compacted or undisturbed	8"x2"x
^	_	Cohesive, loose	12"x2"x
1 1 1 1 1 1 1 1 1 1		Non-Cohesive, well compacted or undisturbed	12"x2"x12
		Non-Cohesive, loose	18"x2"x18
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	*U-shaped anchors are recommended as they can be shared in	between adjace
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\(\dagger \da	Fig 1	

ShearForce10 Recommended Anchors			
Soil Type	*Minimum Anchor	Alternate Anchors	
Cohesive, well compacted or undisturbed	8"x2"x8" wire U-staple	12" Fabric Pin, 8" Plastic Stake	
Cohesive, loose	12"x2"x12" wire U-staple	18" Fabric Pin, 12" Plastic Stake	
Non-Cohesive, well compacted or undisturbed	12"x2"x12", ¾" Rebar U-staple	24" Fabric Pin, 18" Earth Ancho	
Non-Cohesive, loose	18"x2"x18", ¾" Rebar U-staple	36" Percussion Earth Anchor	
*U-shaped anchors are recommended as they can be shared between adjacent rolls when seaming, reducing total anchors needed during installation.			







Installation Guidelines

1. Select appropriate anchors for matting based on soil type and consistency (See Recommended Anchors Table).

Prepare seedbed.

Prepare a smooth seedbed on the soil surface and eliminate any existing rills, soil clods, sticks or rocks larger than 2-inches in diameter. Any soil used to fill rills or low spots must be adequately compacted before seedbed preparation.

Horizontal Roll Install

3. Apply seed and fertilizer.

Vertical Roll Install

Apply seed, fertilizer and other amendments at the specified rates, either by broadcasting, drilling or hydro-seeding.

4. Position and anchor leading edge of mats at the top of, or over the shoulder of the slope with one of the following acceptable methods:

4.1. 6-inch Covered Anchor Trench (Figure 1)

Construct a 6-inch wide by 6-inch deep anchor trench across the top width of the slope. Position the leading edges of the mat (or nubbed Seam-Loc side edge for horizontal installations) in the bottom of the trench, with the topside (simulated turf surface) facing down. Make sure mat rolls are properly aligned with slope direction. Position adjacent rolls according to Step 5 (to ensure proper overlap). Anchor edges of all mats into bottom of trench on 1-foot centers. Backfill trench, compact soil and apply additional seed to compacted soil surface. Unroll material over compacted anchor trench (Fig 1).

4.2. Double Row Anchor Check (Figure 2)

Where trenching is not practical or desired, an anchor check may be used alternatively to secure the leading edge of the mats. Position the leading edges of the mats (or nubbed Seam-Loc edges for horizontal installations) with the topside (simulated turf surface) facing up, ensuring that mat rolls are properly aligned with slope direction. Position adjacent rolls according to Step 5 (to ensure proper overlap). Secure leading edges of mats with a row of anchors spaced 6-inches apart, with a second staggered row of anchors spaced 6-inches apart, approximately 6-inches behind the first row (Fig 2).

5. Seam adjacent rolls. (Seam-Loc Edge Detail)

Unroll material down (vertically) or across (horizontally) the slope face, slightly stretch and relax mat to remove any wrinkles. Let unrolled mats rest in sunlight for a minimum of 15 minutes to normalize surface temperature before anchoring. Overlap roll edges by placing full-turf roll edges on top of nubbed Seam-Loc edges (2-inch turf inset) of adjacent rolls. If necessary, simply step on overlaps to flatten and snap Seam-Loc edges together.

6. Anchor mat to soil. (Figure 3)

Starting at the top and working downslope, fasten mats with a row of anchors spaced 1.5-feet apart across the mat width, and anchor rows spaced 1.5 - 2.0-feet apart down the mat length, making sure all overlaps and factory pre-fabricated seams (6-ft wide rolls only) are secured, according to Fig. 3. Installations on non-cohesive sandy soils and/or on slopes >= 1:1 and/or with significant overland flow, should use the 1.5-foot row spacing along mat length. Use additional anchors as necessary to smooth any remaining wrinkles and ensure that mats are in intimate contact with the underlying soil surface.

7. Seam consecutive roll ends. (Seam-Loc End Detail)

Overlap roll ends "shingle-style" by placing full-turf roll ends (tail of upslope rolls) on top of nubbed Seam-Loc roll ends (3-inch turf inset at head of downslope rolls), and secure with a row of anchors spaced 6-inches apart (Fig 4).

Additional Tips for Fast & Effective Installation

- Install mat with simulated turf on top and fabric backing against soil surface.
- For best vegetative results, do not install on top of any additional erosion control blanket, TRM, or fabric.
- Overlap adjacent rolls by placing full-turf roll edjes on top of nubbed Seam-Loc roll edges (2-inch turf inset). Ensure that all overlaps and seams are properly anchored and secure. If necessary, simply step on overlaps to flatten and snap Seam-Loc edges together.
- Continuous fabric contact with the underlying soil surface is very important for effective product performance. Unroll mat and let rest in sunlight for a minimum of 15 minutes to normalize surface temperature before anchoring the mat body. Work out any wrinkles in material before anchoring. If there are areas where some wrinkles remain, additional anchors may be necessary to ensure good fabric-to-soil contact.
- In bends or reaches that are not straight, miter cut roll joints to prevent wrinkles in material.
- Use a heavy duty utility knife or commercial-grade shears to cut material as necessary.
- When seaming cut roll ends or edges, DO NOT OVERLAP. Simply butt together cut ends or edges and seam together with a single row of anchors spaced 6-inches apart.

