

Instructions

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed. Ground surface must be free of debris, rocks, clay clods and raked smooth sufficient to allow intimate contact of the RECP with the soil over the entirety of the installation.

2. Begin at the top of the slope by anchoring the RECPs in a 6" (15 cm) deep X 6" (15 cm) wide trench. Anchor the RECPs with a row of staples/stakes spaced at $S_{\rm T}$ apart in the bottom of the trench. Backfill and compact the trench after stapling and fold the roll over downslope. Secure RECPs over compacted soil with a row of staples/stakes spaced at $S_{\rm T}$ apart across the width of the RECPs.

- 3. Roll the RECPs (A) down or (B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide. RollMax RECPs and ECBs should utilize Staple Pattern C, TRMs and VMax materials should utilize Staple Pattern D.
- 4. The edges of parallel RECPs must be stapled with approximately 4" 6" (10 15 cm) overlap.
- 5. Consecutive RECPs spliced down the slope must overlapped with the upstream mat atop the downstream mat (shingle style). The overlap should be 4" 6" (10 15 cm).
- 6. At the terminal end, secure each mat across the width with a row of staples/stakes spaced at S_T . If exposed to flow, foot traffic, wind uplift or other disruption, trench the terminal end in as shown in detail.
- 7. Fasteners should provide a minimum of twenty pounds of pullout resistance. Six-inch (10 cm) X one-inch (2.5 cm) eleven gauge staples are typically adequate. In loose soils, longer staples may be necessary, twist pins can provide the greatest pullout resistance. In hard or rocky soils, straight pins may by used where staples or twist pins are refused, provided the minimum pullout requirements are met.

Staple Pattern Guide



• Pin / Staple / Twist Pin, as appropriate for field conditions

	Staple Pattern	
Dimension	С	D
WT	30" (75 cm)	22" (55 cm)
LT	30" (75 cm)	22" (55 cm)
S_{T}	18" (45 cm)	18" (45 cm)
Nominal Frequency	1.7 / SY	3.0 / SY
*Note: Staple Pa has been discor	attern A and B use ntinued.	ed prior to 8/2019



NORTH AMERICAN GREEN

Standard Slope Installation Recommendations RollMax RECPs, VMax TRMs Perspective View, Some Fasteners and Vegetation Omitted for Clarity- NTS Date: 8/23/19 Revision: 0 Drawings: 1/3



NOTES:

*Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.

Instructions

 Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed. Ground surface must be free of debris, rocks, clay clods and raked smooth sufficient to allow intimate contact of the RECP with the soil over the entirety of the installation.

2. Begin at the top of the channel by anchoring the RECPs in a 6" (15 cm) deep X 6" (15 cm) wide trench with approximately 12" (30 cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes approximately 12" (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12" (30 cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" (30 cm) apart across the width of the RECPs.

- 3. Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
- 4. Place consecutive RECPs end-over-end (Shingle style) with a 4"- 6" (10 - 15 cm) overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
- 5. Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes spaced at S_T apart in a 6" (15 cm) deep X 6"(15 cm) wide trench. Backfill and compact the trench after stapling.
- 6. Adjacent RECPs must be overlapped approximately 4"- 6" (10 15 cm) and secured with staples/stakes at $S_{\rm T}.$
- In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9 -12m) intervals. Use a double row of staples staggered 6" (15 cm) apart and 12" (30 cm) on center over entire width of the channel.
- 8. The terminal end of the RECPs must be anchored with a row of staples/stakes spaced at S_T apart in a 6" (15 cm) deep X 6" (15 cm) wide trench. Backfill and compact the trench after stapling.
- 9. Fasteners should provide a minimum of twenty pounds of pullout resistance. Six-inch (10 cm) X one-inch (2.5 cm) eleven gauge staples are typically adequate. In loose soils, longer staples may be necessary, twist pins can provide the greatest pullout resistance. In hard or rocky soils, straight pins may by used where staples or twist pins are refused, provided the minimum pullout requirements are met.

Staple Pattern Guide



• Pin / Staple / Twist Pin, as appropriate for field conditions

		Staple Pattern
	Dimension	E
	W _T	20" (50 cm)
	LT	20" (50 cm)
	S _T	18" (45 cm)
	Nominal Frequency	3.8 / SY



NORTH AMERICAN GREEN

Standard Channel Installation Recommendations RollMax RECPs, VMax TRMs Perspective View, Some Fasteners and Vegetation Omitted for Clarity- NTS Date: 8/23/19 Revision: 0 Drawings: 2/3

Project: Sta Shown: Per



Instructions

- 1. For easier installation, lower water level from Level A to Level B before installation.
- 2. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed. Ground surface must be free of debris, rocks, clay clods and raked smooth sufficient to allow intimate contact of the RECP with the soil over the entirety of the installation.
- 3. Begin at the top of the shoreline by anchoring the RECPs in a 6" (15 cm) deep X 6" (15 cm) wide trench. Anchor the RECPs with a row of staples/stakes spaced at S_T apart in the bottom of the trench. Backfill and compact the trench after stapling.
- 4. Roll RECPs either (A) down the shoreline for long banks (top to bottom) or (B) horizontally across the shoreline slope. RECPs will unroll with appropriate side against the soil surface. VMax TRMs should always be installed parallel to flow. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
- 5. The edges of all horizontal and vertical seams must be stapled with approximately 4" 6" (10 15 cm) overlap. Note: *In streambank applications, seam overlaps should be shingled in the predominant flow direction.
- 6. The edges of the RECPs at or below normal water level must be anchored by placing the RECP's in a 12" (30 cm) deep X 6" (15 cm) wide anchor trench. Anchor the RECPs with a row of staples/stakes spaced approximately 12"(30cm) apart in the trench. Backfill and compact the trench after stapling (stone or soil may be used as backfill). For installation at or below normal water level, use of ShoreMax mat on top of the RECP or geotextile underneath is likely required for sections below the normal water line.
- 7. Fasteners should provide a minimum of twenty pounds of pullout resistance. Six-inch (10 cm) X one-inch (2.5 cm) eleven gauge staples are typically adequate. In loose soils, longer staples may be necessary, twist pins can provide the greatest pullout resistance. In hard or rocky soils, straight pins may by used where staples or twist pins are refused, provided the minimum pullout requirements are met.

Staple Pattern Guide



• Pin / Staple / Twist Pin, as appropriate for field conditions

		Staple Pattern
Dim	ension	E
	W _T	20" (50 cm)
	L _T	20" (50 cm)
	S _T	18" (45 cm)
No Free	minal quency	3.8 / SY



NORTH AMERICAN GREEN Standard Shoreline/Channel Bank Installation Recommendations RollMax RECPs, VMax TRMs Perspective View, Some Fasteners and Vegetation Omitted for Clarity- NTS Date: 8/23/19 Revision: 0 Drawings: 3/3



Available Fasteners for use with RECPs and SRFRs



Wire U-Staples

6"-11 gauge: 1000/box, 60 box/pallet 8,10,12" - 8 gauge: 500/box, 50 box/pallet



Wire Round Top Pins available in 6"-11 gauge wire with a 1.5" circular head. 1000/box, 60 box/pallet



Installation Made Easy Western Green offer a full and diverse line of fasteners for use with our Rolled Erosion Control Products (RECPs) and our Sediment Retention Fiber Rolls (SRFRs). No matter the application or the soil type, we carry a fastener option to meet nearly

For additional assistance on selecting one of the appropriate fasteners

listed here, to learn more about our full line of percussion driven anchors, or for installation tools, visit our

website or contact one of our

erosion control specialize who can

every need.

assist you.

Gripple[®] Twist Pins

Twist Pins available in two helix configurations TI-TA1 (soft soils) and TL-TA2 (hard soils) and in two lengths 8" and 12" lengths TL-TA1-8: 200/box, TL-TA1-12: 100/box TL-TA2-8: 150/box, TL-TA2-12:150/box 36 box/Pallet for all types

