

US EROSION CONTROL PRODUCTS

A DIVISION OF L & M SUPPLY

EROSION CONTROL BLANKETS, WATTLES AND LOGS



SERVICE



QUALITY



INTEGRITY



ABOUT U.S. EROSION CONTROL PRODUCTS

U.S. EROSION CONTROL PRODUCTS was founded on the basis of bringing the highest quality and service to the rolled erosion control product (RECP) industry. With three facilities and the most advanced



manufacturing equipment, we are able to institute the highest levels of quality control in the industry.

We manufacture a complete line of RECP's that include straw, excelsior, 70/30 straw/coconut fiber blends, 100% pure coconut fiber and synthetic turf reinforcement mats (TRM). What does this all add up to? It equates to the country's largest full service manufacturers that brings you nation-wide distribution, the most affordable products in the industry, outstanding service, unsurpassed quality and the highest integrity in the erosion control industry!

Why We Use Erosion Products?

Erosion has been a problem since the beginning of time; shorelines degraded, topsoil lost and hillsides washed away. It has not been until recent history that our population has recognized the extreme devastation that erosion creates. Due to this realization, the U.S. Environmental Protection agency created Phase II of the National Pollutant Discharge Elimination System (NPDES) to help with the erosion and sediment control in America.

The way an RECP works is that it prevents soil loss and helps vegetation develop a root structure and growth for natural erosion protection. U.S. EROSION CONTROL'S wide variety of products has been engineered for all scenarios of erosion; from an area that needs minimal protection and rapid degradation to a replacement for rip rap.



SILT SNAKE COMPOST FILTER SOCK, HIGH PERFORMANCE TURF REINFORCEMENT MATS (HPTRM), WATTLES, COCONUT COIR LOG & MATS

SILT SNAKE COMPOST FILTER SOCKS

Silt Snake is an affordable tubular filtration sock constructed of compost and shavings designed to provide maximum filtration, filter water runoff and control sediment loss; even extreme conditions. This product is predominantly used on the outer perimeters of and around construction sites and often used in place of Silt Fence. Silt Snake is installed down slope of any disturbed area where erosion and sediment control are necessary due to storm water runoff. Other key areas of use are: where trenching of Silt Fence is not possible because of frozen grounds, on paved areas, around sensitive trees where trenching could damage tree growth or in areas where it is unnecessary to disturb established vegetation.



Sizes
12" X 10'
12" X 85'
18" X 10'
18" X 45'
24" X 10'
Custom sizes available.

Sizes	Product
8.5'x106'	US-3000HPTRM
8.5'x106'	US-4000HPTRM

Most affordable in the industry.
Made in the USA!

HIGH PERFORMANCE TURF REINFORCEMENT MATS (HPTRM)

US-4000HPTRM & US-4000HPTRM are high performance turf reinforcement matting (HPTRM) made from homogeneous, woven polypropylene monofilament fiber. These fibers are woven into a pyramid type matrix that help create root and soil interlock. Our HPTRM is made to withstand extreme environmental conditions against shear stress, velocity and long term UV exposure.

EROSION CONTROL & COCONUT WATTLES

U.S. Erosion Wattles are made with 100% Certified Weed Free Wheat Straw and Excelsior Wood Fiber and are bound into a tight tubular roll. When Wattles are placed on the face of slopes, they intercept storm water runoff, reduce its flow velocity, release the runoff as sheet flow and provide removal of sediment from the runoff. By interrupting the length of a slope, the Wattle can also reduce erosion. Wattles are designed to stop sediment and other debris from entering retention ponds, lakes and other water bodies.

Sizes	Product
9" X 15'	STRAW WATTLES
9" X 25'	STRAW WATTLES
12" X 10'	STRAW WATTLES
12" X 20'	STRAW WATTLES
20" X 10'	STRAW WATTLES
20" X 20'	STRAW WATTLES
9" X 25'	COCONUT WATTLES
9" X 10'	EXCELSIOR WATTLES
9" X 25'	EXCELSIOR WATTLES
12" X 10'	EXCELSIOR WATTLES
12" X 20'	EXCELSIOR WATTLES

Sizes	Product
9" X 16'	COIR LOGS
9" X 25'	COIR LOGS
12" X 10'	COIR LOGS
12" X 20'	COIR LOGS
16" X 10'	COIR LOGS
20" X 10'	COIR LOGS
2M X 50M 400 GSM	COIR MATS
2M X 50M 700 GSM	COIR MATS
2M X 50M 900 GSM	COIR MATS

COCONUT COIR LOGS & MATS

Coir Logs are made of 100% Coconut Coir Fiber pressed into a tubular Coir Mesh Netting. The outer Coir Mesh Netting is hand knotted for superior performance. The dimensions are 1.77" x 2.17" in the machine and cross direction, respectively. In high water flow areas the Coir Logs are placed directly on the bank. Coir Logs are also placed offshore to reduce wave action to ensure sedimentation and vegetation. We offer 3 diameter sizes; 9", 12" and 20". Both Coir Logs & Mats are designed to withstand high water flow and wave impact with minimal loss of material to ensure maximum erosion prevention. Coir Logs & Mats enhance plant growth and microbial activity.



ROLLED EROSION BLANKETS, TRMs & COIR MATS

U.S. Erosion Control Products is the Nation's premier Erosion Control Blanket and Wattle manufacturer. With manufacturing facilities in Georgia, Colorado and Indiana, we strive to set ourselves apart by constantly exceeding our customers' expectations with superior quality, services and affordability! We produce a full line of RECPs including: Single & Double Net Wheat Straw Blankets, Excelsior Blankets, 100% Coconut Blankets, 70/30 Straw/Coconut Blankets & Permanent TRMs. Let us show you how U.S. Erosion Control Products can make a difference in your bottom line!



ROLLED EROSION BLANKETS, TRMs & COIR MATS

Size	Product
8' X 112.5'	S-1 NET STRAW BLANKET
8' X 112.5'	S-2 NET STRAW BLANKET
8' X 90'	S-1 NET EXCELSIOR
8' X 90'	S-2 NET EXCELSIOR
8' X 112.5'	70/30 STRAW COCONUT
8' X 112.5'	100% COCONUT BLANKET
8' X 112.5'	8OZ PERMANENT TRM
8' X 112.5'	10OZ PERMANENT TRM
8' X 112.5'	12OZ PERMANENT TRM
6.56' X 164'	(2M X 50M) 400 COIR MAT
6.56' X 164'	(2M X 50M) 700 COIR MAT
6.56' X 164'	(2M X 50M) 900 COIR MAT

We can load up to 600 rolls on a 53' dry van depending on the type RECP.



BLANKET DESCRIPTIONS

Short Term:

U.S. Erosion's short-term blankets are engineered to provide erosion protection on moderate slopes and low flow channels for up to 1 growing season. Specifically our Rapid Degrade (RD) blankets are designed for short term protection where the final slope is to be maintained and the internal components break down in approximately 45-60 days (pending on light and environmental conditions). Our Natural Net (NN) products are engineered for the same protection, and are fully biodegradable, mostly used in environmentally sensitive areas.

Extended Term:

U.S. Erosion's extended-term blankets are engineered with coconut fibers to provide longer and better protection against erosion problems on steep slopes and in most channels. The extended term blankets also utilize a UV stabilized net that usually lasts up to 2 years (pending on light and environmental conditions).

Long Term/Permanent:

U.S. Erosion's long-term blankets are also commonly referred to as Turf Reinforcement Mats (TRMs). These are designed to provide permanent structure and reinforcement to the vegetation at the root and stem level.



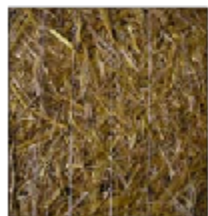
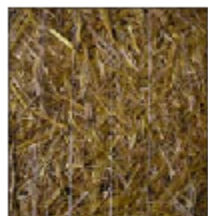
Don't Forget the Sod Staples!



We are one of the largest manufacturers of Sod Staples in the USA. We have the capacity to produce multiple truckloads per week in following sizes: 4" X 1" x 4", 6" x 1" x 6", 8" x 1" x 8", 10" x 1" X 10" & 12" x 1" 12". Our high-Carbon Staples are available with a standard flat or round top for drip irrigation and come 54 boxes per pallet.









SHORT TERM



Product	Matrix	Top Net	Bottom Net	Stitching	Weight (lbs/yd ²)	Longevity
US-1S	100% Straw	Green Photo Degradable Polypropylene	N/A	Photodegradable Polypropylene	0.5	up to 12 months
US-1S RD	100% Straw	White, Photo Degradable Polypropylene	N/A	Photodegradable Polypropylene	0.5	40-60 days
US-1S NN	100% Straw	Biodegradable Jute	N/A	Biodegradable	0.5	up to 12 months
US-2S	100% Straw	Green, Photo Degradable Polypropylene	Green, Photo Degradable Polypropylene	Photodegradable Polypropylene	0.5	up to 12 months
US-2S RD	100% Straw	White, Photo Degradable Polypropylene	White, Photo Degradable Polypropylene	Photodegradable Polypropylene	0.5	50-90 days
US-2S NN	100% Straw	Biodegradable Jute	Biodegradable Jute	Biodegradable	0.5	up to 12 months



SHORT TERM

	Product	Matrix	Top Net	Bottom Net	Stitching	Weight (lbs/yd ²)	Longevity
	US-1X	100% Curled Wood Fiber	Green, Photo Degradable Polypropylene	N/A	Photodegradable Polypropylene	0.72	up to 12 months
	US-1X RD	100% Curled Wood Fiber	White, Photo Degradable Polypropylene	N/A	Photodegradable Polypropylene	0.72	50-90 days
	US- 2X NN	100% Curled Wood Fiber	Biodegradable Jute	N/A	Biodegradable	0.72	up to 12 months
	US-2X	100% Curled Wood Fiber	Green, photo Degradable Polypropylene	Green, photo Degradable Polypropylene	Photodegradable Polypropylene	0.72	up to 12 months
	US-2X RD	100% Curled Wood Fiber	White, Photo Degradable Polypropylene	White, Photo Degradable Polypropylene	Photodegradable Polypropylene	0.72	50-90 days
	US- 2X NN	100% Curled Wood Fiber	Biodegradable Jute	Biodegradable Jute	Biodegradable	0.72	up to 12 months



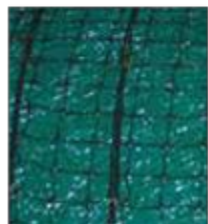
EXTENDED TERM



Product	Matrix	Top Net	Bottom Net	Stitching	Weight (lbs/yd ²)	Longevity
US-2 SC	70% Straw/ 30% Coconut	Black UV Stabilized, Polypropylene	Green Lightweight	UV Stabilized	0.55	up to 24 months
US-2 SC NN	70% Straw/ 30% Coconut	Biodegradable Jute	Biodegradable Jute	Biodegradable	0.55	up to 24 months
US-2C	100% Coconut	Black UV Stabilized, Polypropylene	Black UV Stabilized, Polypropylene	UV Stabilized	0.5	up to 36 months
US-2C NN	100% Coconut	Biodegradable Jute	Biodegradable Jute	Biodegradable	0.5	up to 36 months
US-2C (MNDOT)	70% Coconut/ 30% Straw	Black UV Stabilized, Polypropylene	Black UV Stabilized, Polypropylene	UV Stabilized	0.55	up to 36 months



LONG TERM/PERMANENT



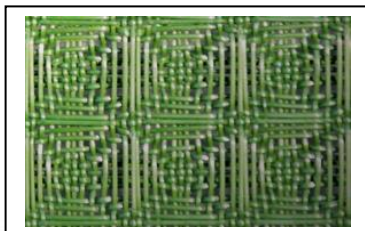
Product	Matrix	Top Net	Bottom Net	Stitching	Weight (lbs/yd ²)	Longevity
US-2P8	100% Polypropylene	Black UV Stabilized, Polypropylene	Black UV Stabilized, Polypropylene	UV Stabilized	0.50	Greater Than 36 Months
US-2P10	100% Polypropylene	Black UV Stabilized, Polypropylene	Black UV Stabilized, Polypropylene	UV Stabilized	0.625	Greater Than 36 Months
US-2P12	100% Polypropylene	Black UV Stabilized, Polypropylene	Black UV Stabilized, Polypropylene	UV Stabilized	0.75	Greater Than 36 Months

HIGH PERFORMANCE TRM

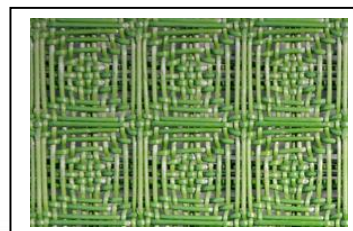
Product	Matrix	Velocity/ Shear Stress	Weight	Longevity
US-3000HPTRM	100% continuous woven monofilament Polypropylene	*20 (lbs/ft ²)/ 12 psf	7oz (oz/yd ²)	25 year design life
US-4000HPTRM	100% continuous woven monofilament Polypropylene	*25 (lbs/ft ²)/ 16 psf	11.5oz (oz/yd ²)	25 year design life

*Typical values

US-3000HPTRM



US-4000HPTRM



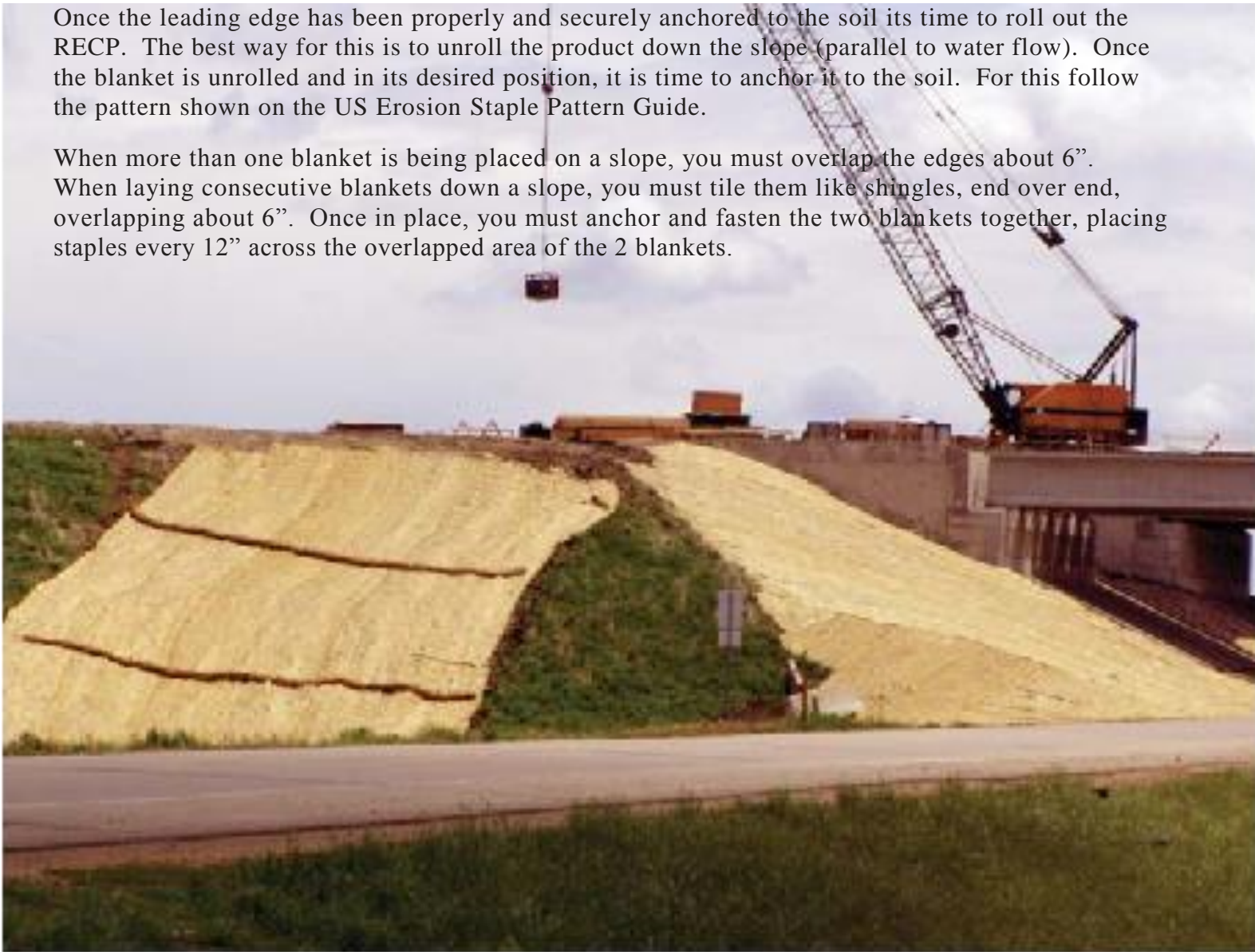
U.S. EROSION CONTROL BLANKET

Slope Installation:

Prepare the seed bed to your specifications or liking by leveling, tilling, fertilizing and seeding. When installing the Rolled Erosion Control Product (RECP) you must first start at the top of the slope by digging a 6" X 6" trench. Once the trench is dug, you must pull at least 12" of the blanket past the trench, place a row of staples anchoring the blanket in the bottom of the trench approximately 12" apart. Once this has been completed, you must then fill the trench back in with the excavated soil, folding the 12" piece of blanket over the top and again anchoring it with staples.

Once the leading edge has been properly and securely anchored to the soil its time to roll out the RECP. The best way for this is to unroll the product down the slope (parallel to water flow). Once the blanket is unrolled and in its desired position, it is time to anchor it to the soil. For this follow the pattern shown on the US Erosion Staple Pattern Guide.

When more than one blanket is being placed on a slope, you must overlap the edges about 6". When laying consecutive blankets down a slope, you must tile them like shingles, end over end, overlapping about 6". Once in place, you must anchor and fasten the two blankets together, placing staples every 12" across the overlapped area of the 2 blankets.



INSTALLATION INSTRUCTIONS

Channel Installation:

Prepare the seedbed to your specifications or liking by leveling, tilling, fertilizing and seeding. When installing the Rolled Erosion Control Product (RECP) you must first start at the top of the slope by digging a 6" X 6" trench. Once the trench is dug, you must pull at least 12" of the blanket past the trench, place a row of staples anchoring the blanket in the bottom of the trench approximately 12" apart. Once this has been completed, you must then fill the trench back in with the excavated soil, folding the 12" piece of blanket over the top and again anchoring it with staples.

Roll the middle blanket out in the direction that the water is to flow down the channel. Once the blanket is unrolled and in its desired position, it is time to anchor it to the soil. For this follow the pattern shown on the US Erosion Staple Pattern Guide.

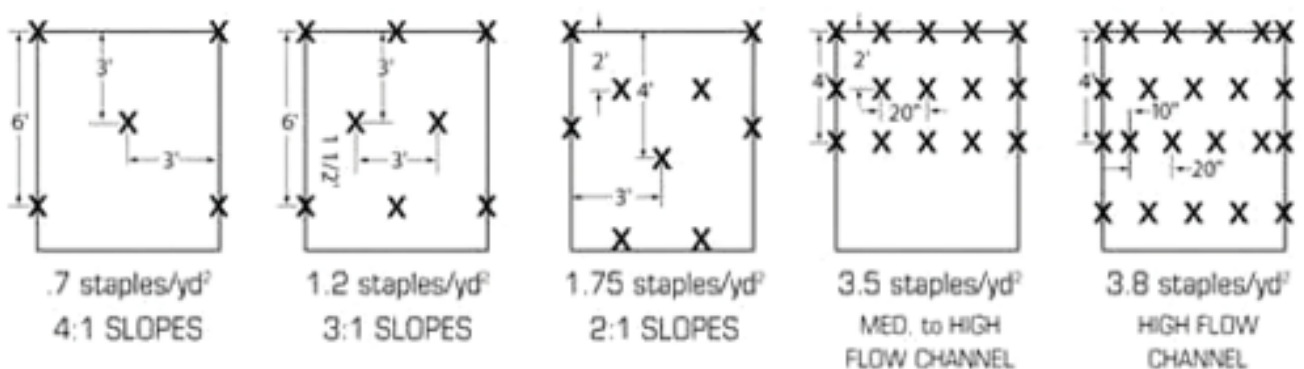
When placing more than one blanket down the length of the channel you must tile them like shingles, end over end, overlapping about 6". Once in place, to anchor the blanket you must place 2 rows of staples 3" apart in a staggering pattern, and 4" apart on center across the entire overlap of the blanket.

Once the channel blankets have been installed the top edge of the slope side must be anchored into a 6" X 6" trench with staples, then backfilled and compacted.

When placing adjacent blankets to the channel, they must be overlapped about 6", and stapled according to the US Erosion Staple Pattern.

If placing the blanket into high flow channels, staple check slots are highly recommended at 40' intervals to help maintain the erosion protection offered by the blanket. To do this, place a double row of staggered staples, 4" apart and 4" on center across the entire flow area.

When you reach the desired end of the flow channel, the end of the blanket must be anchored. To do this, dig a trench 6" X 6", anchor the blanket into the trench with 12" spacing between staples. Finally, backfill and compact the trench.



PRODUCT APPLICATION GUIDE

Product	Description	Applications	Permissible Shear Stress (lbs/ft ²)	Velocity (ft/sec)	Typical Applications
US-1S RD	Single Net Rapid Degrade Straw Blanket	4:1-3:1 Slopes and Low Flow Channels	1.55	5	Rapid growth and maintained areas
US- 1s	Single Net Straw Blanket	4:1-3:1 Slopes and Low Flow Channels	1.55	5	Normal Slopes and Channels
US-1S NN	Single Natural Net Straw Blanket	4:1-3:1 Slopes and Low Flow Channels	1.55	5	Ecologically sensitive areas
U-1XRD	Single Net Rapid Degrade Excelsior Blanket	4:1-3:1 Slopes and Low Flow Channels	1.55	5	Rapid growth and maintained areas
US-1X	Single Net Excelsior Blanket	4:1-3:1 Slopes and Low Flow Channels	1.55	5	Normal Slopes and Channels
US-1X NN	Single Natural Net Excelsior Blanket	4:1-3:1 Slopes and Low Flow Channels	1.55	5	Ecologically sensitive areas
US-2S RD	Double Net Rapid Degrade Straw Blanket	3:1-2:1 Slopes and Moderate Flow Channels	1.75	6	Rapid growth and maintained areas
US-2S	Double Net Straw Blanket	3:1-2:1 Slopes and Moderate Flow Channels	1.75	6	Normal Slopes and Channels
US-2S NN	Double Natural Net Straw Blanket	3:1-2:1 Slopes and Moderate Flow Channels	1.85	6	Ecologically sensitive areas
US-2X RD	Double Net Rapid Degrade Excelsior Blanket	3:1-2:1 Slopes and Moderate Flow Channels	1.75	6	Rapid growth and maintained areas
US-2X	Double Net Excelsior Blanket	3:1-2:1 Slopes and Moderate Flow Channels	1.75	6	Normal Slopes and Channels
US-2X NN	Double Natural Net Excelsior Blanket	3:1-2:1 Slopes and Moderate Flow Channels	1.85	6	Ecologically sensitive areas
US-2 SC	Double Net 70% Straw/ 30% Coconut Blanket	2:1-1:1 Slopes and Medium Flow Channels	2	7	Steeper Slopes; Highway projects
US-2 SC NN 70/30%	Double Natural Net Straw/ Coconut Blanket	2:1-1:1 Slopes and Medium Flow Channels	2.1	7	Steeper slopes in Ecologically Sensitive Areas
US-2C	Double Net 100% Coconut Blanket	1:1 & Greater Slopes and High Flow Channels	2.25	8	Steep Slopes, Shoreline Restoration, High Flow Channels
US-2C NN	Double Natural Net 100% Coconut Blanket	1:1 & Greater Slopes and High Flow Channels	2.35	9	Steep Slopes, Shoreline Restoration, High Flow Channels
US-2P8	Double Net Polypropylene Matrix TRM	1:1 & Greater Slopes and High Flow Channels	1.5	5	Steep Slopes, Shoreline Restoration, High Flow Channels
US-2P10	Double Net Polypropylene Matrix TRM	1:1 & Greater Slopes and High Flow Channels	2.3	8	Steep Slopes, Shoreline Restoration, High Flow Channels
US-2P12	Double Net Polypropylene Matrix TRM	1:1 & Greater Slopes and High Flow Channels	2.8	9	Steep Slopes, Shoreline Restoration, High Flow Channels
US4000 HPTRM	100% continuous woven monofilament Polypropylene	Channel Rehab and Severe Slope	16	25	25 year design life



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