



APPROVED PRODUCT LIST ITEM 169 “SOIL RETENTION BLANKET”

Effective Date: November 2019

The Contractor has the option of utilizing the following approved products in accordance with the Class and Type as specified on the plans. The current Approved Product List may be found on TxDOT’s Erosion Control Web Page at: <http://www.txdot.gov/business/resources/erosion-control.html>. Hydraulically applied products were tested at the rates stated.

Direct all questions to Jacob Eickstead of the Maintenance Division, Vegetation Management Section, 125 E. 11th Street, Austin, TX 78701-2483, (512) 416-3092 or Jacob.Eickstead@txdot.gov.

CLASS 1 – “SLOPE PROTECTION”

<u>Type A – Slopes 3:1 or Flatter - CLAY Soils:</u>		
ROLL TYPE BLANKET		SPRAY TYPE BLANKET
AEC Premier Coconut	TerraGuard SS	CocoFlex ET-FGM at 3,500 lbs./acre
AEC Premier Straw/Coconut	US-1S	EarthGuard Fiber Matrix at 3,000 lbs./acre
BIOMAC S1	US-2S	EcoFlex HP FGM at 3,500 lbs./acre
BIOMAC SC	US-1X	Flexterra FGM at 3,500 lbs./acre
BIOMAC SS 026.1	US-2X	Flexterra HP-FGM at 3,500 lbs./acre
BIOMAC SS 027.2	Winters Straw HV	Flexterra Ultra at 3,500 lbs./acre
Curlex I		Hy-C4 at 4,000 lbs./acre
Curlex I CL		Hydra CX2 at 4,000 lbs./acre
ECB S31 Single Net Straw		Hydro-Blanket® BFM at 3,500 lbs./acre
ECB S32 Double Net Straw		HydroStraw BFM at 3,500 lbs./acre
ECS-1		Pennington Proguard at 3,500 lbs./acre
ECS-2		Proganics™ Dual® at 5,500 lbs./acre
Excel PP5-10		ProMatrix™ EFM at 3,500 lbs./acre
Excel R-1		Soil Guard® at 3,500 lbs./acre
Excel R-2		SprayMatrix FRM at 3,500 lbs./acre
Excel Rc-1		Wood-Lok HPM at 3,500 lbs./acre
Excel S-1		
Excel SR-1		
Excel SR-1 All Natural		
Excel SS-2		
Greenfix CFS072R		
Greenfix WS05		
GreenSolutions™ DNS 2		
Haymark HMI-350PP		
North American Green S150		
North American Green P300		
North American Green S75		
North American Green S75BN		
Rhino Erosion King Single Net		
S1000 Single Net Straw		
Tackmat S		
TerraGuard DS		

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CLASS 1 – “SLOPE PROTECTION” (continued)

<u>Type B – Slopes 3:1 or Flatter - SANDY Soils:</u>		
ROLL TYPE BLANKET		SPRAY TYPE BLANKET
AEC Premier Coconut	North American Green S75	CocoFlex ET-FGM 3,500 lbs./acre
AEC Premier Straw Double Net	North American Green S150	Conwed Fiber 2000 at 2,500 lbs./acre
AEC Premier Straw Single Net	Proganics™Dual®	EarthGuard Fiber Matrix at 3,000 lbs./acre
BIOMAC SS 026.1	Rhino Erosion King Single Net	EcoFlex HP FGM at 3,500 lbs./acre
BIOMAC SS 027.2	Tackmat S	Flexterra FGM 3,500 lbs./acre
Curlex I	Tackmat X	Flexterra HP-FGM 3,500 lbs./acre
Curlex I CL	Terraguard DS	Hy-C3 at 3,500 lbs./acre
Curlex II CL	Terraguard SS	Hydra CM at 3,500 lbs./acre
ECB S31 Single Net Straw	US-1S	Pennington Proguard at 3,000 lbs./acre
ECB S32 Double Net Straw	US-2S	Proganics™Dual® at 5,500 lbs./acre
ECS-1	US-1X	ProMatrix™ EFM at 3,500 lbs./acre
ECS-2	Winters Coir	SprayMatrix FRM at 3,500 lbs./acre
ETRS-1 Single Net Straw Blanket	Winters Straw HV	Terra Matrix at 3,000 lbs./acre
Excel CC-4	Winters Straw SN	Wood-Lok HPM at 3,500 lbs./acre
Excel PP5-8	WR-1	
Excel PP5-10		
Excel R-1		
Excel Rc-1		
Excel SR-1		
Excel SS-2		
GreenSolutions™ DNS 2		
GreenSolutions™ SNS 1		
Haymark HMI-350PP		
Kansas Erosion S1		
Kansas Erosion S2		
Landlok S1		
North American Green C125		
North American Green P300		
North American Green P300LW		

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CLASS 1 – “SLOPE PROTECTION” (continued)

<u>Type C – Slopes Steeper than 3:1 - CLAY Soils:</u>	
ROLL TYPE BLANKET	SPRAY TYPE BLANKET
AEC Premier Coconut	CocoFlex ET-FGM 3,500 lbs./acre
AEC Premier Straw/Coconut	EarthGuard Fiber Matrix at 3,000 lbs./acre
BIOMAC S1	EcoFlex HP FGM at 3,500 lbs./acre
BIOMAC SC	Flexterra FGM at 3,500 lbs./acre
BIOMAC SS 027.2	Flexterra HP-FGM at 3,500 lbs./acre
Curlex I	Flexterra Ultra at 3,500 lbs./acre
ECB S32 Double Net Straw	Hy-C4 at 3,500 lbs./acre
ECS-2	Hydra CX2 at 4,000 lbs./acre
Excel PP5-10	Hydro-Blanket® BFM at 3,500 lbs./acre
Excel R-1	HydroStraw BFM at 3,500 lbs./acre
Excel Rc-1	Pennington Proguard at 3000 lbs./acre
Excel S-1	Proganics™Dual® at 5,500 lbs./acre
Excel SS-2	Soil Guard® at 3,500 lbs./acre
Greenfix CFS072R	SprayMatrix FRM at 3,500 lbs./acre
Greenfix WS05	Wood-Lok HPM at 3,500 lbs./acre
GreenSolutions™ DNS 2	
Haymark HMI-350PP	
North American Green S150	
North American Green P300	
North American Green S75BN	
Rhino Erosion King Single Net	
S1000 Single Net Straw	
TerraGuard DS	
US-2S	
US-2X	
Winters Straw HV	

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<u>Type D – Slopes Steeper than 3:1 - SANDY Soils:</u>	
ROLL TYPE BLANKET	SPRAY TYPE BLANKET
AEC Premier Coconut AEC Premier Straw Double Net BIOMAC SS 027.2 Curlex I Curlex I CL Curlex II CL ECB S32 Double Net Straw ECS-2 Excel CC-4 Excel CC-4 All Natural Excel PP5-10 Excel R-1 Excel Rc-1 Excel SS-2 GreenSolutions™ DNS 2 GreenSolutions™ SNS 1 Haymark HMI-350PP Kansas Erosion Products S2 North American Green C125 North American Green S150 North American Green P300 Rhino Erosion King Single Net Tackmat S Tackmat X TerraGuard DS US-2S Winters Coir Winters Straw HV	CocoFlex ET-FGM 3,500 lbs./acre EarthGuard Fiber Matrix at 3,000 lbs./acre EcoFlex HP FGM at 3,500 lbs./acre Flexterra FGM at 3,500 lbs./acre Flexterra HP-FGM at 3,500 lbs./acre Hy-C3 at 3,500 lbs./acre Hydra CM at 3,500 lbs./acre SprayMatrix FRM at 3,500 lbs./acre Wood-Lok HPM at 3,500 lbs./acre Pennington Proguard at 3,000 lbs./acre
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CLASS 2 – “FLEXIBLE CHANNEL LINER”

Type E – Shear Stress Range 0 – 96 Pascal (0 – 2 Pounds Per Square Foot):

AEC Premier Straw/Coconut	Excel R-1
AEC Premier Straw Double Net	Excel S-2
BIOMAC C	Excel SD-3
BIOMAC CC 025.3	Excel SS-2
BIOMAC N20	GreenArmor 7020
Channel Soxx	Greenfix CFG
Contech C-35	Greenstreak Pec-Mat
Contech C50	Haymark HMI-350PP
Contech Coconut / Poly Fiber Mat	Koirmat™ 700
Contech Coconut Mat w/ Kraft Net	Landlok® C2
Contech TRM C-45	Landlok® CS2
Curlex® II Stitched	Landlok® S-2
Curlex® II (.98)	Landlok® TRM 435
Curlex® II CL	Landlok® TRM 450
Curlex® III Stitched	Landlok® TRM 1051
Curlex® Enforcer®	Landlok® TRM 1060
Curlex® Enforcer® I	Multimat 100
Earth-Lock	North American Green C125 BN
Earth-Lock II	North American Green P300LW
ECB EX32	North American Green C350
ECB P42 TRM	North American Green P300
ECB SC32 Double Net Extended Term	North American Green P350
ECB S32 Double Net Straw	North American Green P550
ECC-3 Coconut Turf Reinforcement Mat	North American Green S150
ECP-2 10oz Polypropylene Turf Reinforcement Mat	North American Green S350
ECP-3	North American Green SC150 BN
ECSC-3 Straw/Coconut Turf Reinforcement Mat	North American Green SC 250
Enkamat 7018	Pyramat®
Enkamat 7020	Recyclex TRM
ETPP-10	Recyclex TRM-V
ETRS-2	Rhino Erosion King Double-Net
Excel CC-4	SEC P2
Excel CC-4 All Natural	SEC XL2
Excel CS-3	SS-2 Superior Straw
Excel CS-3 All Natural	StayTurf
Excel PP5-8	T-RECS
Excel PP5-10	Webtec Terraguard 44P
Excel PP5-12	Webtec Terraguard 45P
	Winters Turf

*** CONTINUE TO NEXT COLUMN ***

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CLASS 2 – “FLEXIBLE CHANNEL LINER” (continued)

<u>Type F – Shear Stress Range 0 – 192 Pascal (0 – 4 Pounds Per Square Foot):</u>	
AEC Premier Straw/Coconut AEC Premier Straw Double Net BIOMAC C BIOMAC CC 025.3 Channel Soxx Contech C-35 Contech C50 Contech Coconut / Poly Fiber Mat Contech Coconut Mat w/ Kraft Net Contech TRM C-45 Curlex® II Stitched Curlex® II (.98) Curlex® II CL Curlex® III Stitched Curlex® Enforcer® Curlex® Enforcer® I Earth-Lock Earth-Lock II ECB EX32 ECB P42 TRM ECB SC32 Double Net Extended Term ECC-3 Coconut Turf Reinforcement Mat ECP-2 10oz Polypropylene Turf Reinforcement Mat ECP-3 ECSC-3 Straw/Coconut Turf Reinforcement Mat Enkamat 7018 ETPP-10 ETRS-2 Excel CC-4 Excel PP5-8 Excel PP5-10 Excel PP5-12 Excel R-1 Excel S-2 Excel SD-3 Excel SS-2	GreenArmor 7020 Greenfix CFG 2000 Greenfix CFO72RR Greenstreak Pec-Mat Haymark HMI-350PP Koirmat™ 700 Landlok® C2 Landlok® CS2 Landlok® S2 Landlok® TRM 435 Landlok® TRM 450 Landlok® TRM 1051 Landlok® TRM 1060 Multimat 100 North American Green C125 BN North American Green P300 North American Green P300LW North American Green C350 North American Green P350 North American Green P550 North American Green S150 North American Green S350 North American Green SC150 BN North American Green SC 250 Pyramat® Recyclex TRM Recyclex TRM-V Rhino Erosion King Double Net SEC P2 SS-2 Superior Straw StayTurf T-RECS Webtec Terraguard 44P Webtec Terraguard 45P Winters Turf
*** CONTINUE TO NEXT COLUMN ***	
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CLASS 2 – “FLEXIBLE CHANNEL LINER” (continued)

Type G – Shear Stress Range 0 – 287 Pascal (0 – 6 Pounds Per Square Foot):

BIOMAC CC 025.3	Haymark HMI-350PP
Channel Soxx	Koirmat™ 700
Contech C-35	Landlok® TRM 435
Contech C50	Landlok® TRM 450
Contech Coconut / Poly Fiber Mat	Landlok® TRM 1051
Contech TRM C-45	Landlok® TRM 1060
Curlex® Enforcer®	Multimat 100
Earth-Lock	North American Green SC 250
Earth-Lock II	North American Green 300
ECB EX32	North American Green 300LW
ECB P42 TRM	North American Green C350
ECC-3 Coconut Turf Reinforcement Mat	North American Green S350
ECP-2 10oz Polypropylene Turf Reinforcement Mat	North American Green P350
ECP-3	North American Green P550
ECSC-3 Straw/Coconut Turf Reinforcement Mat	Pyramat®
Enkamat 7018	Recyclex TRM
ETPP-10	Recyclex TRM-V
Excel PP5-8	SEC P2
Excel PP5-10	StayTurf
Excel PP5-12	TMax 3k
GreenArmor 7020	T-RECS
Greenfix CFG 2000	Webtec Terraguard 44P
Greenstreak Pec-Mat	Webtec Terraguard 45P
	Winters Turf

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CLASS 2 – “FLEXIBLE CHANNEL LINER” (continued)

Type H – Shear Stress Range 0 – 383 Pascal (0 – 8 Pounds Per Square Foot):

BIOMAC CC 025.3
Channel Soxx
Contech C-35
Contech C50
Contech Coconut / Poly Fiber Mat
ECB P42 TRM
ECC-3 Coconut Turf Reinforcement Mat
ECP-2 10oz Polypropylene Turf Reinforcement Mat
ECP-3
ECSC-3 Straw/Coconut Turf Reinforcement Mat
ETPP-10
Excel PP5-8
Excel PP5-10
Excel PP5-12
GreenArmor 7020
Haymark HMI-350PP
Landlok[®] TRM 435
Landlok[®] TRM 450
Landlok[®] TRM 1051
Multimat 100
North American Green SC 250
North American Green 300
North American Green 300LW
North American Green C350
North American Green S350
North American Green P350
North American Green P550
Pyramat[®]
Recyclex TRM
Recyclex TRM-V
SEC P2
StayTurf
T-RECS
Webtec Terraguard 44P
Webtec Terraguard 45P
Winters Turf

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APPROVED PRODUCT LIST ITEM 164 “SEEDING FOR EROSION CONTROL”

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The Contractor has the option of utilizing the following approved cellulose fiber mulches. The current Approved Product List may be found on TxDOT’s Erosion Control Web Page at: <http://www.txdot.gov/business/resources/erosion-control.html>.

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MULCHES 4:1 OR FLATTER SLOPES

CLAY OR TIGHT SOILS	SANDY OR LOOSE SOILS
<ul style="list-style-type: none"> Agri-Fiber American Fiber Mulch American Fiber Mulch (Hydro-Stick) BioFiber Wood Plus Conwed Hydro Mulch Enviro-Gold Enviro-Gold Plus Enviro Gro Fiber Mulch Enviro Mix Evercycle Hydro-Mulch Excel Aspen Turbo Mulch Excel Fibermulch II GeoSkin Hy-C1 Hydro-Lok HydroSpray™ Cellulose HydroStraw HydroStraw Guar Plus Lay-Low Mulch Lonestar Hydro-Grass Nature Spray® Recycled Paper Fiber Nature Spray® Recycled Straw Tack Nature Spray® Regenerated Wood Fiber Mulch Nature Spray® Wood Fiber Blend Oasis Fiber Mulch Pennzsuppress® Pro Mat Pro Mat (with RMB Plus) Pro Mat X Safe Slope® Second Nature® Recycled Paper Fiber Second Nature® Recycled Straw Tack Second Nature® Regenerated Wood Fiber Mulch Second Nature® Wood Fiber Blend Second Nature® Wood Fiber Plus Mat-Fiber Plus® SoilCover Blend 	<ul style="list-style-type: none"> American Fiber Mulch American Fiber Mulch (with Hydro-Stick) American Fiber Mulch with Stick Plus BioFiber Wood Plus Conwed Hydro Mulch Enviro-Gold Plus Enviro-Gro Evercycle™ Hydro-Mulch Excel Aspen Turbo Mulch Excel Fibermulch II GeoSkin Hy-C1 Hydro-Lok HydroSpray™ Cellulose HydroStraw HydroStraw Guar Plus Lay-Low Mulch Lonestar Hydro-Grass Nature Spray® Recycled Paper Fiber Nature Spray® Recycled Straw Tack Nature Spray® Regenerated Wood Fiber Mulch Nature Spray® Wood Fiber Blend Oasis Fiber Mulch Pam 12 Pennzsuppress® Pro Mat Pro Mat (with RMB Plus) Pro Mat X Pro Mat XL Safe Slope® Second Nature® Recycled Paper Fiber Second Nature® Recycled Straw Tack Second Nature® Regenerated Wood Fiber Mulch Second Nature® Wood Fiber Blend Second Nature® Wood Fiber Plus SoilCover Blend
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