

**KANSAS DEPARTMENT OF TRANSPORTATION
BUREAU OF MATERIALS AND RESEARCH**

**KDOT'S Bureau of Design, Environmental Services Section has approved
the following material; to be supplied for Erosion Control Products under
Special Provision 90P-193 and SS2007, Section 2113**

**PQL – 34B - Revised 12/01/08
For Contracts Let After March 2000**

CMS MATERIAL CODE (187)

The Contractor has the option of utilizing the following approved products in accordance with the Class and Type as specified on the plans. Direct all questions to the KDOT Bureau of Design, Environmental Services Section, Eisenhower State Office Bldg, 700 SW Harrison, Topeka, KS 66603. Phone (785) 296-0853.

**CLASS 1 “SLOPE PROTECTION”
Type A - Slopes 1:3 or Flatter - Clay Soils:**

AEC Premier Straw	Enviro-Shield - Hydromulch	North American Green® SC150
AEC Premier Straw Double Net	Excel CC-4	Hydro Blanket - Hydromulch
AEC Premier Straw/Coconut	Excel CS-3 All Natural	Landlok® S1
AEC Premier Coconut	Excel Lc-1	Landlok® S2
Airtrol - Hydromulch	Excel PP5-10	Landlok® CS2
Anti-Wash/Geojute	Excel R-1	Landlok® 407
BioD-Mesh 60	Excel Rc-1	Landlok® TRM 435
Carthage Mills Veg Net	Excel SR-1	Miramat TM8
C-Jute	Excel SR-1 All Natural	Landlok® SuperGro
CocoFlex ET-FGM	Excel SS-2	Pennzsuppress® - Hydromulch
Contech Standard	Flexterra FGM - Hydromulch	Poplar Erosion Blanket
Contech Standard Plus	Futerra®	Rhino Erosion King Single Net
Contech Straw/Coconut Fiber Mat w/Kraft Net	Grass Mat	Rhino Erosion King Double Net
Contech C-35	Greenfix CFS072R	SEC-S2
Curlex™ 1	Greenfix WS05	Soil Guard - Hydromulch
Curlex™-LT	Greenfix WSO72	Soil Saver
Earth Bound - Hydromulch	Green Solutions DNS2	SprayMat - Hydromulch
EcoAegis™ - Hydromulch	Green Solutions SNS1	Terra-Control® - Hydromulch
Econo-Jute	Green Triangle Regular	TerraJute
ECB S31 Single Net Straw	Green Triangle Superior	Terra-Mulch - Hydromulch
ECB S32 Double Net Straw	Greenstreak Pec-Mat	Verdyol Ero-Mat
ECS-1	Hydra CX2 - Hydromulch	Verdyol Excelsior High Velocity
ECS Excelsior Blanket Standard	Multimat 100	Verdyol Excelsior Standard
ECS High Velocity Straw Mat	North American Green® S75	Webtec Terraguard 44P
ECS Standard Straw	North American Green® S75 BN	WintersChoice
EnviroGuard Plus - Hydromulch	North American Green® S150	WintersCoir
Enviro-Matrix - Hydromulch	North American Green® S150 BN	WinterStraw HV

CLASS 1 "SLOPE PROTECTION"

Type B - 1:3 or Flatter - Sandy Soils:

AEC Premier Straw	Flexterra FGM - Hydromulch
AEC Premier Straw Double Net	Futerra®
AEC Premier Straw/Coconut	Geojute Plus 1
AEC Premier Coconut	Greenfix CFS072R
C-Jute	Greenfix WS05
Carthage Mills Veg Net	Greenfix WSO72
CocoFlex ET-FGM	Green Solutions SNS1
Contech Standard	Green Triangle Regular
Contech Standard Plus	Green Triangle Superior
Contech Straw/Coconut Fiber Mat w/Kraft Net	Hydra CX2 - Hydromulch
Contech C-35	Landlok® S1
Cotton Fiber Matrix (CFM)	Landlok® S2
Curlex™ 1	Landlok® CS2
Curlex™ II - CL	Landlok® 407
Curlex™ LT	Landlok® TRM 435
Curlex NetFree	Miramat 1000
Earth Bound - Hydromulch	Miramat TM8
EarthGuard Fiber Matrix (<i>Conweb 1000 wood fiber and Tascon Pro Mat paper mulch</i>)Hydromulch	Multimat 100
ECB S31 Single Net Straw	North American Green® S75
ECB S32 Double Net Straw	North American Green® S75 BN
ECS-1	North American Green® S150
ECS Standard Straw	North American Green® SC150
ECS Excelsior Blanket Standard	North American Green® S150 BN
ECS High Velocity Straw Mat	Poplar Erosion Blanket
EnviroGuard Plus - Hydromulch	Rhino Erosion King Single Net
Excel CC-4	SEC-S2
Excel CS-3 All Natural	Soil Guard - Hydromulch
Excel CS-3	Terra-Control® - Hydromulch
Excel Lc-1	TerraJute
Excel PP5-8	Verdyol Ero-Mat
Excel PP5-10	Verdyol Excelsior Standard
Excel PP5-12	Webtec Terraguard 44P
Excel R-1	WintersChoice
Excel Rc-1	WintersCoir
Excel SR-1 All Natural	WinterStraw HV
Excel SS-2	WinterStraw SN

CLASS 1 “SLOPE PROTECTION”
Type C - Slopes Steeper than 1:3 - Clay Soils:

AEC Premier Straw Double Net	Greenfix CFS072R
AEC Premier Straw/Coconut	Greenfix WS05
AEC Premier Coconut	Greenfix WSO72
Airtrol - Hydromulch	Greenstreak Pec-Mat
Anti-Wash/Geojute	Green Solutions DNS2
Carthage Mills Veg Net	Green Triangle Superior
C-Jute	Hydra CX2 - Hydromulch
CocoFlex ET-FGM	Hydro Blanket - Hydromulch
Contech Standard Plus	Landlok® S2
Contech Straw/Coconut Fiber Mat w/Kraft Net	Landlok® CS2
Contech C-35	Landlok® 407
Curlex™ 1	Landlok® SuperGro
Earth Bound - Hydromulch	Landlok® TRM 435
Eco-Aegis - Hydromulch	Miramat TM8
Econo Jute	Multimat 100
ECB S32 Double Net Straw	North American Green® S75
ECS-1	North American Green® S150
ECS High Velocity Straw Mat	North American Green® S150 BN
ECS Standard Straw	North American Green® SC150
EnviroGuard Plus - Hydromulch	Pennzsuppress® - Hydromulch
Enviro-Matrix	Poplar Erosion Blanket
Enviro-Shield	Rhino Erosion King Single Net
Excel CC-4	Rhino Erosion King Double Net
Excel CS-3 All Natural	SEC-S2
Excel Lc-1	SprayMat - Hydromulch
Excel PP5-10	SprayMatt®
Excel R-1	Soil Guard - Hydromulch
ExcelRc-1	Soil Saver
Excel SS-2	TerraJute
Excel SR-1	Verdyol Excelsior High Velocity
Excel SR-1 All Natural	Webtec Terraguard 44P
Flexterra FGM - Hydromulch	WintersChoice
Futerra®	WintersCoir
	WinterStraw HV

CLASS 1 “SLOPE PROTECTION”
Type D – Slopes Steeper than 1:3 - Sandy Soils:

AEC Premier Straw Double Net	Flexterra FGM
AEC Premier Straw/Coconut	Futerra®
AEC Premier Coconut	Geojute Plus 1
C-Jute	Greenfix CFS072R
Carghage Mills Veg Net	Greenfix WS05
CocoFlex ET-FGM	Greenfix WSO72
Contech Standard Plus	Green Triangle Superior
Contech Straw/Coconut Fiber Mat w/Kraft Net	HydraCX2
Cotton Fiber Matrix (CFM)	Landlok® S2
Contech C-35	Landlok® CS2
Curlex™ 1	Landlok® 407
Curlex™ II CL	Landlok® TRM 435
Curlex™ NetFree	Miramat 1000
EarthGuard Fiber Matrix (<i>Conweb 1000 wood fiber and Tascon Pro Mat paper mulch</i>)Hydromulch	Miramat TM8
ECB S32 Double Net Straw	North American Green® S150
ECS-1	North American Green® SC150
ECS High Velocity Straw Mat	North American Green® S150 BN
ECS Standard Straw	Rhino Erosion King Single Net
EnviroGuard Plus - Hydromulch	SEC-S2
Excel CC-4	Soil Guard - Hydromulch
Excel CS-3 All Natural	TerraJute
Excel CS-3	Webtec Terraguard 44P
Excel Lc-1	WintersChoice
Excel PP5-10	WintersCoir
Excel PP5-12	WinterStraw HV
Excel R-1	
Excel Rc-1	
Excel SR-1 All Natural	
Excel SS-2	

APPROVED PRODUCT LIST
ITEM 169 "SOIL RETENTION BLANKET"

CLASS 2 - "FLEXIBLE CHANNEL LINER

"Type E - Shear Stress Range 0 - 96 Pascal (Up to 2 Pounds Per Square Foot):

Channel Soxx	Greenfix CFG 2000
Contech Coconut/Poly Fiber Mat	Greenstreak Pec-Mat
Contech Coconut Mat w/Kraft Net	Koirmat™ 700
Contech TRM C-35	Landlok CS2
Contech TRM C-45	Landlok C2
Contech TRM C-50	Landlok® TRM 435
Curlex® II Stitched	Landlok® TRM 450
Curlex® III Stitched	Landlok® TRM 1051
Curlex® Channel Enforcer I	Miramat TM8
Curlex® Channel Enforcer II	Multimat 100
Earth-Lock	North American Green® C125BN
Earth-Lock II	North American Green® C350
ECB P 42 TRM	North American Green® SC150BN
ECB SC 32 Double Net Extended Term	North American Green® SC250
ECS High Impact Excelsior	North American Green® P550
ECS Standard Excelsior	Pyramat®
Enkamat 7018	Recyclex TRM
Enkamat 7020	SEC P2
Enviromat	SEC XL2
Excel CC-4	StayTurf® ~ <i>A fully vegetative product that</i>
Excel CS-3	<i>requires an establishment period</i>
Excel CS-3 All Natural	Webtec Terraguard 44P
Excel PP5-8	Webtec Terraguard 45P
Excel PP5-10	
Excel PP5-12	
Excel R-1	
Excel S-2	
Excel SD-3	

CLASS 2 - "FLEXIBLE CHANNEL LINER

Type F - Shear Stress Range 0 - 192 Pascal (Up to 4 Pounds Per Square Foot):

Channel Soxx	Greenfix CFG 2000
Contech TRM C-35	Greenfix CFO 72RR
Contech TRM C-45	Greenstreak Pec-Mat
Contech TRM C-50	Koirmat™ 700
Contech Coconut/Poly Fiber Mat	Landlok® CS2
Contech Coconut Mat w/Kraft Net	Landlok® C2
Curlex® II Stitched	Landlok®TRM 435
Curlex® III Stitched	Landlok®TRM 450
Curlex® Channel Enforcer I	Landlok® TRM 1051
Curlex® Channel Enforcer II	Miramat TM8
Earth-Lock	Multimat 100
Earth-Lock II	North American Green® C125BN
ECB P 42 TRM	North American Green® C350
ECB SC 32 Double Net Extended Term	North American Green® SC150BN
ECS High Impact Excelsior	North American Green® SC250
ECS Standard Excelsior	North American Green® P550
Enkamat 7018	Pyramat®
Enviromat	Recyclex TRM
Excel CC-4	SEC P2
Excel PP5-8	StayTurf® ~ <i>A fully vegetative product that requires an establishment period</i>
Excel PP5-10	Webtec Terraguard 44P
Excel PP5-12	Webtec Terraguard 45P
Excel R-1	
Excel S-2	
Excel SD-3	

CLASS 2 - "FLEXIBLE CHANNEL LINER

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

Channel Soxx	Landlok® TRM 435
Contech TRM C-35	Landlok® TRM 450
Contech TRM C-45	Landlok® TRM 1051
Contech TRM C-50	Landlok® TRM 1060
Contech Coconut/Poly Fiber Mat	Multimat 100
Curlex® Channel Enforcer II	North American Green® C350
Earth-Lock	North American Green® P350
Earth-Lock II	North American Green® S350
ECB P 42 TRM	North American Green® P550
Enkamat 7018	Pyramat®
Excel PP5-8	Recyclex TRM
Excel PP5-10	SEC P2
Excel PP5-12	StayTurf® ~ <i>A fully vegetative product that requires an establishment period</i>
Greenfix CFG 2000	
Greenstreak Pec-Mat	Webtec Terraguard 44P
Koirmat™ 700	Webtec Terraguard 45P

CLASS 2 - "FLEXIBLE CHANNEL LINER

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

Channel Soxx	Multimat 100
Contech TRM C-35	North American Green® C350
Contech TRM C-45	North American Green® P350
Contech TRM C-50	North American Green® S350
Contech Coconut/Poly Fiber Mat	North American Green® P550
ECB P 42 TRM	Pyramat®
Excel PP5-8	Recyclex TRM
Excel PP5-10	SEC P2
Excel PP5-12	StayTurf® ~ <i>A fully vegetative product that requires an establishment period</i>
Landlok® TRM 435	
Landlok® TRM 450	Webtec Terraguard 44P
Landlok® TRM 1051	Webtec Terraguard 45P

CLASS 2 - "FLEXIBLE CHANNEL LINER

Type I - Shear Stress Range 0 - 479 Pascal (Up to 10 Pounds Per Square Foot):

Channel Soxx
ECB P 42 TRM
Excel PP5-8
Excel PP5-10
Excel PP5-12
Landlok® TRM 450
North American Green® C350
North American Green® P550
Recyclex TRM
StayTurf® ~ <i>A fully vegetative product that requires an establishment period</i>

CLASS 2 - "FLEXIBLE CHANNEL LINER

Type J - Shear Stress Range 0 - 575 Pascal (Up to 12 Pounds Per Square Foot):

Channel Soxx

Excel PP5-12

Landlok® TRM 450

North American Green® P550

Recyclex TRM

StayTurf® ~ *A fully vegetative product that requires an establishment period*

CELLULOSE FIBER MULCHES

Clay or Tight Soils:

Agri-Fiber	Oasis Fiber Mulch
American Fiber Mulch	Pennzsuppress®
American Fiber Mulch (with Hydro-Stick)	Pro Mat
Conwed Hydro Mulch	Pro Mat (with RMBplus)
Enviro-Gro	Pro Mat X
Enviro-Gro Fiber Mulch	Pro Mat XL
Evercycle™ Hydro-Mulch	Second Nature Regenerated Paper Fiber Mulch
Excel Fibermulch II (with Exact-Tac)	Second Nature Regenerated Wood Fiber Mulch
Hydro-Lok	Second Nature Wood Fiber Blend
Hydro Straw	Second Nature Recycled Paper Fiber
Lay-Low Mulch	Second Nature Recycled Straw Tack
Lonestar Hydro-Grass	Silva Fiber Plus

CELLULOSE FIBER MULCHES

Sandy or Loose Soils:

American Fiber Mulch	Oasis Fiber Mulch
American Fiber Mulch (with Hydro-Stick)	Pennzsuppress®
American Fiber Mulch with Stick Plus	Pro Mat
Conwed Hydro Mulch	Pro Mat (with RMBplus)
Enviro-Gro Fiber Mulch	Pro Mat X
Evercycle™ Hydro-Mulch	Pro Mat XL
Excel Fibermulch II	Second Nature Regenerated Paper Fiber Mulch
Excel Fibermulch II (with Exact-Tac)	Second Nature Regenerated Wood Fiber Mulch
Hydro-Lok	Second Nature Wood Fiber Blend
Hydro Straw	Second Nature Recycled Paper Fiber
Lay-Low Mulch	Second Nature Recycled Straw Tack
Lonestar Hydro-Grass	