TREMCO
ROOFING & BUILDING MAINTENANCE

PRODUCT SPECIFICATION DATA SHEET

VR RootBloc 10

ROOT BARRIER
FOR VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description	2-sheets of high-strength fire-retardant virgin film are laminated together with a third layer of molten polyethylene. A heavy duty scrim reinforcement placed between these plies greatly enhances tear resistance and increases service life. Used in applications that require a fire retardant material, and demands high puncture and tear strengths.
Options	None

PRODUCT PROPERTIES

Material	Extrusion laminated with scrim reinforcement.
Color	Translucent, cream

Dimensions

Width x Length of roll	12 ft x 100 ft (3.65 m x 31 m)
Thickness	10 mil (0.25 mm)

Weight	6.2 oz./yd² (43 lbs/MSF) (210 g/m²)

Tensile Properties

Elongation at Break	500%
Grab Tensile	80 lbf (356 N)
Trapezoid Tear	52 lbf (231 N)
1" Tensile Strength	60 lbf/in (267 N/cm)

Resistance Properties

Mullen Burst	90 psi (621 kPa)
Hydrostatic	74 psi (510 kPa)

Temperature Use

Maximum	180°F (82°C)
Minimum	-70°F (-57°C)

WVTR	0.214 grains/(100 inch²*day) (0.202 g/(m²*day))
Perm Rating	0.031 US perms (0.021 metric perms)

Burning Characteristics

Flame Spread Index	5
Smoked Developed Value	55
Fire Testing	NFPA 701, Test Method 2 (Large Scale) Class "A", NFPA Life Safety Code 101

Additional Info

Use	To be overlapped 6-inch (152.4 mm) and bonded with VR TecTape 2.
Recycled Content	10% Post-Consumer scrap

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VR RootBloc 10

ROOT BARRIER
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

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All claims concerning product defects must be made in writing within twelve (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product. This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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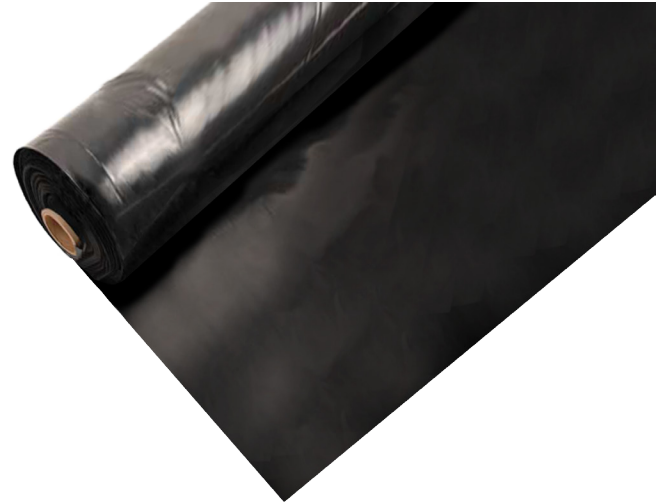
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VR RootBloc 40

ROOT BARRIER
FOR VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description	Root barrier membrane consisting of blended linear polyethylene, infused with carbon black for UV protection. Used in applications that demands high puncture and tear strengths and additional outdoor longevity
Options	None

PRODUCT PROPERTIES

Material	Blended linear polyethylene infused with carbon black additive
Color	Black

Dimensions

Width x Length of roll	12.67 ft x 100 ft (3.86 m x 31 m)
Thickness	40 mil (1.00 mm)

Weight	189 lbs/MSF (921 g/m²)

Tensile Properties

Elongation at Break	800%
1" Tensile Strength	154 lbf (270 N)

Resistance Properties

Mullen Burst	220 psi (1517 kPa)
Tear	22 lbf (98 N)
Puncture	60 lbf (267 N)

Temperature Use

Maximum	180°F (82°C)
Minimum	-70°F (-57°C)

Dimensional Stability	< 2%
Volatile Loss	< 1%
Perm Rating	0.024 US perms (0.015 metric perms)

Additional Info

Use	To be overlapped 6-inch (152.4 mm) and bonded with VR TecTape 2.
Recycled Content	10% Post-Consumer scrap

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VR RootBloc 40

ROOT BARRIER
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

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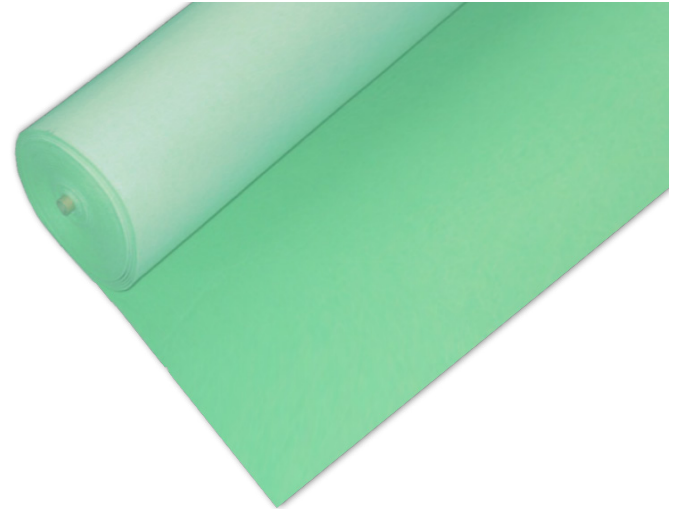
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TREMCO
ROOFING & BUILDING MAINTENANCE

PRODUCT SPECIFICATION DATA SHEET
VR PolyMat
PROTECTION SHEET
FOR VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description	High-quality rewettable polyester, made from post-consumer recycled plastic bottles. Can be used for LEED credit/certification.
Options	None

PRODUCT PROPERTIES

Materials	Non-woven polyester fibers
Color	Green
Width x Length of roll	5 ft x 400 ft (1.5 m x 121.9 m)
Thickness	60 mil (1.52 mm)
Weight	62.5 lbs (28.4 kg)

Mechanical Properties

Elongation	50%
Grab tensile strength	100 lbf (444 N)
Trapezoid Tear	45 lbf (200 N)
Puncture Strength	65 lbf (288 N)
Mullen Burst	210 psi (1448 kPa)
UV Resistance	70%

Hydraulic Properties

AOS	70 US Sieve Size
Permittivity	2 sec^-1
Water Flow Rate	140 gpm/ft² (5704 Lpm/m²)
Water Retention	0.05 gal/ft² (2.02 L/m²)

Additional Info

Recycled Content	100% post-consumer recycled

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VR PolyMat

PROTECTION SHEET
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

Tremco Incorporated warrants VR PolyMat to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any VR PolyMat product that is proved to be defective when applied in accordance to our written instructions, and in applications recommended by Tremco as suitable for this product will be replaced with like product at no charge.

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TREMCO
ROOFING & BUILDING MAINTENANCE

PRODUCT SPECIFICATION DATA SHEET
VR AeroMat
PERCOLATION LAYER
FOR VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description	Three-dimensional matrix manufactured of recycled polypropylene and a geocomposite fabric bonded to one side
Options	None

PRODUCT PROPERTIES

Material	Polypropylene polymer

Dimensions	
Width x Length	48-inch x 50 ft (1.22 m x 15.2 m)
Roll Diameter	12.0-inch (0.31 m)
Thickness	0.40-inch (10.0 mm)

Weight	
Roll Weight	27.8 lb (12.6 kg)
Core Weight	16.0 oz/yd² (543 g/m²)

Fabric	
Weight	4.5 oz/yd² (152.6 g/m²)
Elongation	50%
Grab Tensile Strength	120 lbf (534 N)
Trapezoid Tear	50 lbf (223 N)
Puncture Strength	310 lbf (1380 N)
AOS	70 US Sieve (0.212 mm)
Permittivity	1.7 sec^-1
Flow Rate	135 gpm/ft² (5500 Lpm/m²)

Additional Info	
Fire Testing	Class "A", NFPA Life Safety Code 101
Compressive load	30,000 psf
Recycled Content	Over 40% Post-Industrial scrap

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VR AeroMat

PERCOLATION LAYER
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

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TREMCO
ROOFING & BUILDING MAINTENANCE

PRODUCT SPECIFICATION DATA SHEET
VR HydraPanel 0.40
WATER DRAINAGE/RETENTION PANEL
FOR VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description	Three-dimensional high-flow retention/ drainage sheet complete with filter fabric overlay
Options	None

PRODUCT PROPERTIES

Material

Filter Fabric Overlay	Spunbonded Nonwoven Polypropylene
Drainage Sheet Core	High Impact Polystyrene

Dimensions

Roll	4 ft x 50 ft (1.22 m x 15.24 m)
Thickness	0.44-inch (11 mm)

Dry Weight

45 lb/roll (20 kg/roll)

Fabric Weight

4.2 oz./yd² (142 g/m²)

Fabric

UV Resistance	70% / 500 hrs
Grab tensile strength	130 lbf (578 N)
Water Flow Rate	150 gpm/ft² (6,113 Lpm/m²)
Trapezoidal Tear	- Typical Value: 60 lbs (267 N)
	- MARV: 50 lbs (222 N)

Core

Compressive Strength	15,000 psf (718 kPa)
Moisture Retention	0.06 gal/ft² (2.4 L/m²)
Perforation Open Area	15.21 in²/ft² (105,612 mm²/m²) 10%

Horizontal Flow Rate:

Gradient = 1.0	16 gpm/ft (200 Lpm/m)
Gradient = 0.1	6 gpm/ft (75 Lpm/m)

Additional Info

Recycled Content	77% Post-Industrial Scrap

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VR HydraPanel 0.40

WATER DRAINAGE/RETENTION PANEL
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

Tremco Incorporated warrants VR HydraPanel 0.40 to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any VR HydraPanel 0.40 product that is proved to be defective when applied in accordance to our written instructions, and in applications recommended by Tremco as suitable for this product will be replaced with like product at no charge.

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PRODUCT SPECIFICATION DATA SHEET
VR Filter Fabric
FILTER FABRIC
FOR VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description	Highly permeable, non-woven, needle punched geo-textile separator
Options	
VRFF1:	360 ft² (33 m²) per roll
VRFF2:	720 ft² (67 m²) per roll
VRFFM:	Die-cut for VR Mod

PRODUCT PROPERTIES

Material	Polypropylene staple fiber

Dimensions	*(Width x Length x Diameter)*
VRFF1:	1 ft x 360 ft x 1 ft
	(0.30 m x 109 m x 0.30 m)
VRFF2:	2 ft x 360 ft x 1 ft
	(0.60 m x 109 m x 0.30 m)
VRFFM:	15-inch x 20-inch (381 mm x 508 mm)

Fabric Thickness	45 mil (1.143 mm)

Fabric Weight	3.2 oz./yd² (109 g/m²)

Shipping Weight	
VRFF1:	12 lb (5.5 kg)/roll - 40 per pallet
VRFF2:	24 lb (11 kg)/roll - 20 per pallet
VRFFM:	0.07 lb (0.03 kg)/pc - with VR Mod

Mechanical	
Elongation:	50%
Grab tensile strength	80 lbf (356 N)
Trapezoid Tear:	30 lbf (133 N)
CBR Puncture:	210 lbf (934 N)
UV Stability:	70%

Hydraulic	
Permittivity:	2.2 sec^-1
Water Flow Rate:	160 gpm/ft² (6519 Lpm/m²)
Apparent Opening:	70 US Sieve (0.212 mm)

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VR Filter Fabric

FILTER FABRIC GROWING MEDIA
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

Tremco Incorporated warrants VR Filter Fabric to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any VR Filter Fabric product that is proved to be defective when applied in accordance to our written instructions, and in applications recommended by Tremco as suitable for this product will be replaced with like product at no charge.

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VR AeroMix

ENGINEERED GROWING MEDIA
FOR VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description	Lightweight engineered growing media mix of organic and inorganic material that will support succulent and desert plantings.
Options	None

PRODUCT PROPERTIES

Particle Size Distribution	< 15%
Per FLL Guidelines	

Weight	
Minimum Weight (Dry Weight)	50 lb/ft³ (0.80 g/cm³)
Maximum Weight (Saturated Weight)	80 lb/ft³ (1.28 g/cm³)

Moisture	
Maximum Water Holding Capacity	45%
Air-Filled porosity	<13%
Water Permeability	> 36 inch/hr (> 0.02 cm/sec)

pH	6.0 - 8.0

EC	< 2.5

Organic Content	< 9%

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VR AeroMix

ENGINEERED GROWING MEDIA
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

Tremco Incorporated warrants VR AeroMix Growing Media to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, we will provide, at no charge, VR AeroMix Growing Media to replace any VR AeroMix Growing Media proven to be defective when applied in accordance to our written instructions and in applications recommended by Tremco as suitable for this product will be replaced with like product at no charge.

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VR DrainGuard

DRAIN INSPECTION BOX
FOR VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description	Drain inspection box with lockable lid and side drainage holes.

Options

VR DrainGuard 4	6-inch height drain inspection box
VR DrainGuard 6	8-inch height drain inspection box
VR DrainGuard 8	10-inch height drain inspection box
	Custom heights available.

PRODUCT PROPERTIES

Material	Mill-finished aluminum

Color	Natural aluminum

Dimensions

Width x Length	15-inch x 15-inch (375 mm x 375 mm)
Height:	
VR DrainGuard 4	6-inch (152.4 mm)
VR DrainGuard 6	8-inch (203.2 mm)
VR DrainGuard 8	10-inch (254 mm)

Thickness	60 mil (1.52 mm)

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VR DrainGuard

DRAIN INSPECTION BOX
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

Tremco Incorporated warrants VR DrainGuard to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any VR DrainGuard product that is proved to be defective when applied in accordance to our written instructions, and in applications recommended by Tremco as suitable for this product will be replaced with like product at no charge.

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TREMCO
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PRODUCT SPECIFICATION DATA SHEET

VR StackGuard

*ROOF PROJECTION PROTECTION BOX
FOR VEGETATED ROOF ASSEMBLIES*

PRODUCT DESCRIPTION

Description	Roof projection protection box with side drainage holes.
Options	Custom heights available.

PRODUCT PROPERTIES

Material	Mill-finished aluminum
Color	Natural aluminum

Dimensions	
Width x Length	9-inch x 9-inch (228.6 mm x 228.6 mm)
Height	Variable

Thickness	60 mil (1.52 mm)

Additional Info	
Recycled Content	60% Post-Industrial Scrap 20% Post-Consumer Scrap

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VR StackGuard

ROOF PROJECTION PROTECTION BOX
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

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VR EdgeGuard

EDGING RESTRAINT
FOR VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description   Pre-manufactured L-Shaped edging product with top lip and perforations for drainage.

Options

VR EdgeGuard 4	6-inch height edging restraint
VR EdgeGuard 6	8-inch height edging restraint
VR EdgeGuard 8	10-inch height edging restraint
	Custom heights available.

PRODUCT PROPERTIES

Material   Extruded aluminum with mill finish

Color   Natural aluminum

Dimensions

Width x Height:

VR EdgeGuard 4	4-inch x 5.97-inch (101.60 mm x 151.64 mm)
VR EdgeGuard 6	4-inch x 7.97-inch (101.60 mm x 202.5 mm)
VR EdgeGuard 8	4-inch x 9.97-inch (101.60 mm x 253.3 mm)

Thickness:

VR EdgeGuard 4	80 mil (2.03 mm)
VR EdgeGuard 6	120 mil (3.04 mm)
VR EdgeGuard 8	120 mil (3.04 mm)

Length	8 ft (2.5 m)
Lip	3/8-inch (9.525 mm)
Perforations	3/4-inch (19 mm diameter)

Shipping   125 units max./double wide skid

Weight

VR EdgeGuard 4	0.962 lb/ft (1.430 kg/m)
VR EdgeGuard 6	1.152 lb/ft (1.712 kg/m)
VR EdgeGuard 8	1.342 lb/ft (1.994 kg/m)

Weight per unit

VR EdgeGuard 4	7.7 lb/unit (3.47 kg/unit)
VR EdgeGuard 6	9.22 lb/unit (4.18 kg/unit)
VR EdgeGuard 8	10.74 lb/unit (4.93 kg/unit)

Additional Info

Use   To be used in conjunction with VR vegetated roof assemblies.

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VR EdgeGuard

EDGING RESTRAINT
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

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VR FabricLok

DOUBLE-COATED TECHNICAL TAPE FOR SEALING SEAMS
IN VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description	High strength double coated tape. Appropriate for most surfaces. Excellent on plastics such as polypropylene and powder-coated paints.
Options	None

PRODUCT PROPERTIES

Material	Polyester, double-coated w/ adhesive

Dimensions

Width x Length of roll	2-inch x 60 yd (50 mm x 55 m)

Tape Thickness	7.9 mil (0.20 mm)
Breakdown Voltage	7500 volts
Dielectric Strength	900 volts/mil

Shear Strength

@ RT, 1000 grams:	10,000 min
@ 158°F, 500 grams:	10,000 min

Adhesion Properties

15 min dwell @RT:

Stainless Steel	85 oz./inch (9.3 N/cm)
Polycarbonate	110 oz./inch (12.3 N/cm)
ABS	80 oz./inch (8.8 N/cm)
Polypropylene	95 oz./inch (10.4 N/cm)

72 hr dwell @RT:

Stainless Steel	110 oz./inch (12 N/cm)
Polycarbonate	140 oz./inch (15.3 N/cm)
ABS	110 oz./inch (12 N/cm)
Polypropylene	110 oz./inch (12 N/cm)

Temperature Resistance

Long Term	250°F (121°C)
Short Term	300°F (149°C)

Additional Info

Use	Required for sealing VR Filter Fabric to VR EdgeGuard in VR Systems

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www.tremcoroofing.com

VR FabricLok

*DOUBLE-COATED TECHNICAL TAPE FOR SEALING SEAMS
IN VEGETATED ROOF ASSEMBLIES*

GUARANTEE / WARRANTY

Tremco Incorporated warrants VR FabricLok to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any VR FabricLok product that is proved to be defective when applied in accordance to our written instructions, and in applications recommended by Tremco as suitable for this product will be replaced with like product at no charge.

THIS IS BUYER'S SOLE AND EXCLUSIVE REMEDY.

All claims concerning product defects must be made in writing within twelve (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product. This warranty shall be IN LIEU OF any other warranty, express or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

An **RPM** Company

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TREMCO
ROOFING & BUILDING MAINTENANCE

VR TecTape
TECHNICAL TAPE FOR SEALING SEAMS
IN VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description Self-adhered, waterproof membrane with acrylic pressure-sensitive adhesive, designed for sealing on difficult-to-stick-to surfaces. This tape is temperature tolerant and adheres to damp surfaces.

Options
VR TecTape 2 2-inch wide roll
VR TecTape 4 4-inch wide roll

PRODUCT PROPERTIES

Material	Film backing lined /w acrylic adhesive

Dimensions	
VR TecTape 2	2-inch x 75 ft roll (50 mm x 23 m)
VR TecTape 4	4-inch x 75 ft roll (100 mm x 23 m)

Tape Thickness	9.9 mil (0.25 mm)

Adhesion Properties	
Polyethylene/ Polypropylene	60 oz./inch width (66 N/100 mm)
Anodized Aluminum:	
After 7 days at 176° F	70 oz./in. width (77 N/100 mm)
After 7 days in water	65 oz./in. width (71 N/100 mm)
After Thermal Cycling	75 oz./in. width (82 N/100 mm)
After UV Exposure	60 oz./in. width (66 N/100 mm)

Permeability	0.17 perms

Nail Sealability	
Initial Test:	Pass
After Thermal Cycling:	Pass

Temperature	
Service Range	-40 to -176°F (-40 to 80°C)
Application Range	0 - 120°F (-18 to 49°C)

Additional Info	
Use	VR TecTape 2 required to be used for sealing VR RootBloc, VR Filter Fabric, VR AeroMat, & VR HydraPanel 0.40.
	VR TecTape 4 required as accessory to be used in conjunction with modular vegetated roof assemblies.

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VR TecTape

TECHNICAL TAPE FOR SEALING SEAMS
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

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VR TerraHold

EROSION CONTROL NETTING
FOR VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description	Erosion control netting
Options	None

PRODUCT PROPERTIES

Material	Polypropylene

Dimensions

Width x Height	14 ft x 75 ft
	(4.26 m x 22.86 m)
Thickness	0.32-inch (8 mm)

Mesh Shape	Quadrangular
Color	Black
Unit Weight	0.033 oz./ft² (10 g/m²)

Hole Size

MD Pitch	0.79-inch (20 mm)
TD Pitch	0.67-inch (17 mm)

Tensile Strength

MD	0.145 psi (1.0 kN/m²)
TD	0.116 psi (0.8 kN/m²)

Yield Point Elongation

Longitudinal Direction	15.0%
Transversal Direction	20.0%

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