

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

Providing Roofing and Weatherproofing Peace of Mind

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3735 Green Road
Beachwood, Ohio
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T: 1.800.562.2728

CANADA
50 Beth Neelson Drive
Toronto, Ontario
M4H 1M6
T: 1.800.668.9879

PRODUCT SPECIFICATION DATA SHEET

VR RootBloc 10

ROOT BARRIER
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

Tremco Incorporated warrants VR RootBloc 10 to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any VR RootBloc 10 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.

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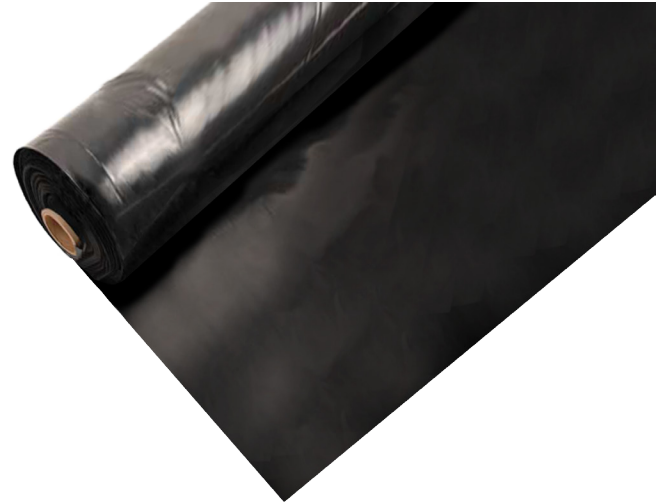
VR RootBloc 40

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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PRODUCT SPECIFICATION DATA SHEET

VR RootBloc 40

ROOT BARRIER
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

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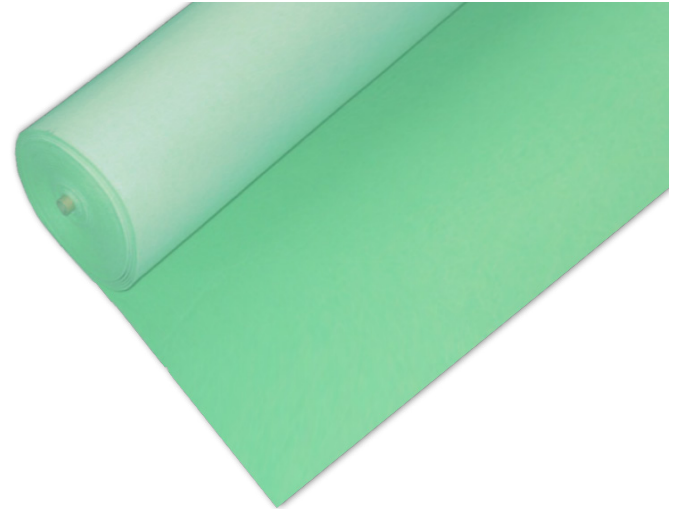
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PRODUCT DESCRIPTION

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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PRODUCT SPECIFICATION DATA SHEET

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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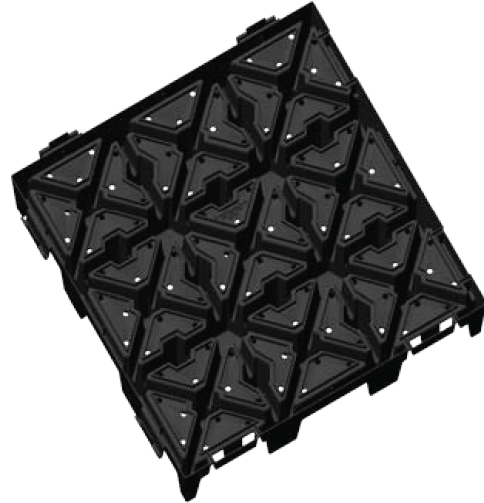
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VR HydraPanel 1.25

WATER RETENTION AND DRAINAGE PANEL
FOR VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description	Three-dimensional panel with locking clips to form an integrated moisture retention/drainage system
Options	None



PRODUCT PROPERTIES

Material High density polypropylene

Dimensions

Width x Length 24-inch x 24-inch (610 mm x 610 mm)
Thickness 1-1/4 inch (32 mm)

Dry Weight 0.6 lb/ft² (2.93 kg/m²)

Water-filled Weight 1.93 lb/ft² (9.41 kg/m²)

Compressive Strength 7,782 lb/ft² (38,000 kg/m²)

Fabric

Flow N/A
Puncture N/A
AOS N/A
Grab tensile strength N/A

In-plane Flow Rate (Core) N/A

Moisture Holding Capacity 0.165 gal/ft² (6.7 L/m²)

Additional Info

Working Temperature Minus 40°F to 212°F

Recycled Content 80% Post-Industrial scrap
20% Post-Consumer scrap

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PRODUCT SPECIFICATION DATA SHEET

VR HydraPanel 1.25

WATER RETENTION AND DRAINAGE PANEL
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

Tremco Incorporated warrants VR HydraPanel 1.25 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 1.25 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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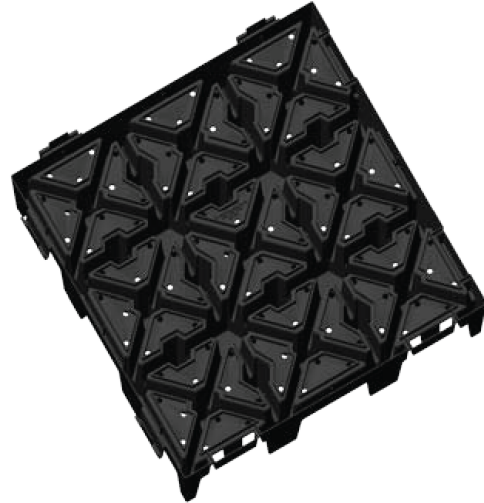
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VR HydraPanel 2

WATER RETENTION AND DRAINAGE PANEL
FOR VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description	Three-dimensional panel with locking clips to form an integrated moisture retention and drainage system
Options	None



PRODUCT PROPERTIES

Material High density polypropylene

Dimensions

Width x Length 24-inch x 24-inch (610 mm x 610 mm)
Thickness 2-1/8 inch (54 mm)

Dry Weight 0.86 lb/ft² (4.17 kg/m²)

Water-filled Weight 3.79 lb/ft² (18.52 kg/m²)

Compressive Strength 7,782 lb/ft² (38,000 kg/m²)

Fabric

Flow N/A
Puncture N/A
AOS N/A
Grab tensile strength N/A

In-plane Flow Rate (Core) N/A

Moisture Holding Capacity 0.352 gal/ft² (14.35 L/m²)

Additional Info

Working Temperature Minus 40°F to 212°F

Recycled Content 80% Post-Industrial scrap
20% Post-Consumer scrap

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PRODUCT SPECIFICATION DATA SHEET

VR HydraPanel 2

WATER RETENTION AND DRAINAGE PANEL
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

Tremco Incorporated warrants VR HydraPanel 2 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 2 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 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/yd ² (543 g/m ²)

Fabric

Weight	4.5 oz/yd ² (152.6 g/m ²)
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/ft ² (5500 Lpm/m ²)

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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PRODUCT SPECIFICATION DATA SHEET

VR AeroMat

PERCOLATION LAYER
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

Tremco Incorporated warrants VR AeroMat to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any VR AeroMat 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 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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PRODUCT SPECIFICATION DATA SHEET

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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PRODUCT DESCRIPTION

Description Lightweight biologically populated growing media mix of organic and inorganic material that will support a wide variety of plant growth, retain and remediate storm water run off.

Options None



PRODUCT PROPERTIES

Porosity

Pore Volume** > 60%
Air Filled Porosity** > 10%
Saturated Hydraulic Conductivity* > 15-inch/hr (> 0.010 cm/sec)

Weight

Minimum Weight* 21.4 lb/ft³
 (Dry Weight) (0.34 g/cm³)

Maximum Weight* 68 lb/ft³
 (Saturated Weight) (1.08 g/cm³)

Moisture

Maximum Water > 60%
Holding Capacity*

100% Saturation of 1 SF x 1 inch* > 5.70 lb

OM @ 550 deg C* > 60%

** Results found in accordance with ASTM F 1815-97 method

* Results found in accordance with ASTM E 2399-05 method

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PRODUCT SPECIFICATION DATA SHEET

VR HydraMix

ENGINEERED GROWING MEDIA
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

Tremco Incorporated warrants VR HydraMix 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 HydraMix Growing Media to replace any VR HydraMix 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

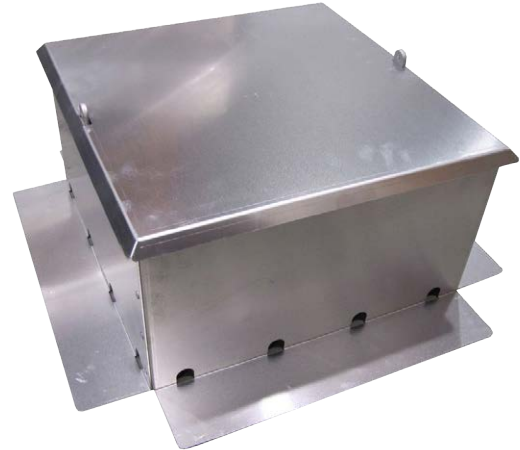
DRAIN INSPECTION BOX
FOR VEGETATED ROOF ASSEMBLIES

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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PRODUCT SPECIFICATION DATA SHEET

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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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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PRODUCT SPECIFICATION DATA SHEET

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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PRODUCT SPECIFICATION DATA SHEET

VR EdgeGuard

EDGING RESTRAINT
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

Tremco Incorporated warrants VR EdgeGuard to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any VR EdgeGuard 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.

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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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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/ 60 oz./inch width (66 N/100 mm)
 Polypropylene

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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PRODUCT SPECIFICATION DATA SHEET

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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EROSION CONTROL NETTING
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