

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

UNITED STATES
3735 Green Road
Beachwood, Ohio
44122
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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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

Tremco Incorporated warrants VR RootBloc 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 RootBloc 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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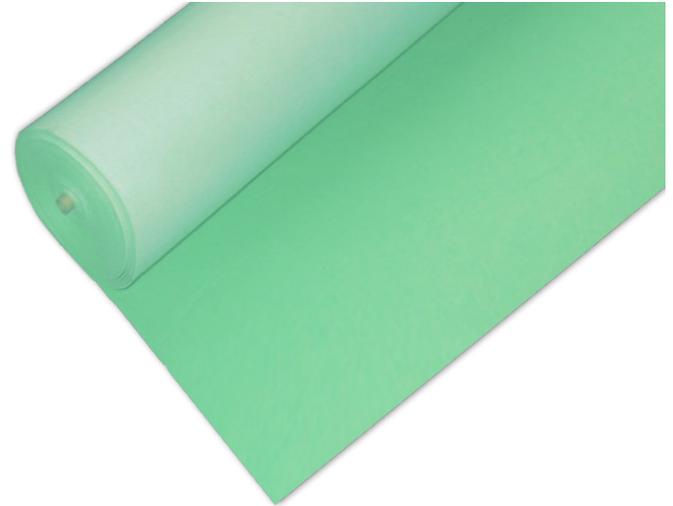
VR PolyMat

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

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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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

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VR Mod Meadow

PRE-VEGETATED HYBRID MODULAR TRAY
FOR VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description Three-dimensional unit integrating a moisture retention/drainage panel with locking clips, filter fabric, engineered growing media, and vegetation to form an integrated modular vegetated roofing system.

Options Custom meadow mixes available. Modules can be ordered with integrated rotary irrigation system.



PRODUCT PROPERTIES

Material

Empty Module High density polypropylene
Filter Fabric Polypropylene staple fiber.
Growing Media VR HydraMix
 Engineered growing media, suitable for forbs and graminoids.
Vegetation Standard mixes comprise of 10 - 12 species, suited for regional climates.

Maximum Weight 65 lb (30 kg) per unit
31 lb/ft²
Minimum Weight 25 lb (30 kg) per unit
12.0 lb/ft²
Shipping Weight 50 lb (22.6 kg) per unit
24.0 lb/ft²
Compression Strength 7984 psf (382 kN/m²)

Dimensions

Width x Length x Depth 15-inch x 20-inch x 5.75-inch
(381 mm x 508 mm x 146 mm)
Area 2.08 ft² (0.19 m²)
Thickness of Wall 3/32-inch (2.38 mm)
3/8-inch (9.52 mm) reinforcements

Moisture Retention

Vegetated Module 3.12 gal (11.8 L) per unit
1.5 gal/ft² (62 L/m²)
Empty Module 0.13 gal (2.09 L) per unit
0.271 gal/ft² (11 L/m²)

Weight

Empty Module Empty: 2.63 lb (1.19 kg)

Additional Info

Recycled Content 80% Post-Industrial scrap
(Empty Module) 20% Post-Consumer scrap

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Beachwood, Ohio
44122
T: 1.800.562.2728

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

PRODUCT SPECIFICATION DATA SHEET

VR Mod Meadow

PRE-VEGETATED HYBRID MODULAR TRAY
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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VR Mod Sedum

PRE-VEGETATED HYBRID MODULAR TRAY
FOR VEGETATED ROOF ASSEMBLIES

PRODUCT DESCRIPTION

Description Three-dimensional unit integrating a moisture retention/drainage panel with locking clips, filter fabric, engineered growing media, and vegetation to form an integrated modular vegetated roofing system.

Options Custom sedum mixes available. Modules can be ordered with integrated rotary irrigation system.



PRODUCT PROPERTIES

Material

<i>Empty Module</i>	High density polypropylene
<i>Filter Fabric</i>	Polypropylene staple fiber
<i>Growing Media</i>	VR AeroMix Engineered growing media, suitable for desert succulents such as sedum
<i>Vegetation</i>	Standard mixes comprise of 10 - 12 species, suited for regional climates

<i>Maximum Weight</i>	66 lb (30.5 kg) per unit 31.7 lb/ft ²
<i>Minimum Weight</i>	37 lb (16 kg) per unit 17.8 lb/ft ²
<i>Shipping Weight</i>	50 lb (22.6 kg) per unit 24.0 lb/ft ²
<i>Compression Strength</i>	7984 psf (382 kN/m ²)

Dimensions

<i>Width x Length x Depth</i>	15-inch x 20-inch x 5.75-inch (381 mm x 508 mm x 146 mm)
<i>Area</i>	2.08 ft ² (0.19 m ²)
<i>Thickness of wall</i>	3/32-inch (2.38 mm) 3/8-inch (9.52 mm) reinforcements

Moisture Retention

<i>Vegetated Module</i>	2.28 gal (8.6 L) per unit 1.1 gal/ft ² (45 L/m ²)
<i>Empty Module</i>	0.13 gal (2.09 L) per unit 0.271 gal/ft ² (11 L/m ²)

Weight

<i>Empty Module</i>	Empty: 2.63 lb (1.19 kg)
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Additional Info

<i>Recycled Content (Empty Module)</i>	80% Post-Industrial scrap 20% Post-Consumer scrap
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50 Beth Neelson Drive
Toronto, Ontario
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T: 1.800.668.9879

PRODUCT SPECIFICATION DATA SHEET

VR Mod Sedum

PRE-VEGETATED HYBRID MODULAR TRAY
FOR VEGETATED ROOF ASSEMBLIES

GUARANTEE / WARRANTY

Tremco Incorporated warrants VR Mod Sedum to be free of defects and to meet published physical properties when tested according to ASTM and Tremco standards. Under this warranty, any VR Mod Sedum 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 engineered growing media mix of organic and inorganic material that will support succulent and desert plantings.

Options None



PRODUCT PROPERTIES

Particle Size < 15%

Distribution

Per FLL Guidelines

Weight

Minimum Weight 50 lb/ft³
(Dry Weight) (0.80 g/cm³)

Maximum Weight 80 lb/ft³
(Saturated Weight) (1.28 g/cm³)

Moisture

Maximum Water 45%
Holding Capacity
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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PRODUCT SPECIFICATION DATA SHEET

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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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 > 5.70 lb
1 SF x 1 inch*

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

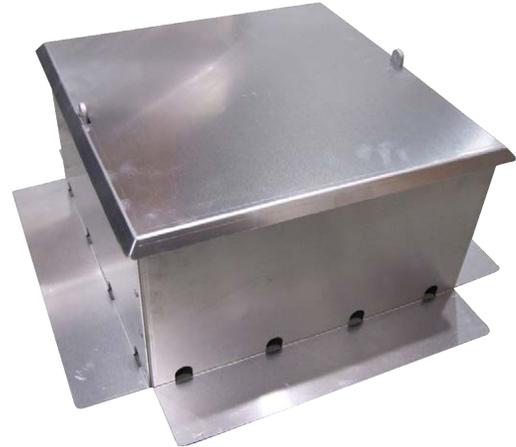
DRAIN INSPECTION BOX
FOR VEGETATED ROOF ASSEMBLIES

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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M4H 1M6
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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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3735 Green Road
Beachwood, Ohio
44122
T: 1.800.562.2728

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

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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