



INNOVATION FOR
SUSTAINABILITY

**SUSTAINABLE PRODUCTS
REFERENCE GUIDE**

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INNOVATION FOR
SUSTAINABILITY

One Planet.
Many Solutions.
One Source.

Versico Roofing Systems' focus has always been innovation – innovation to solve problems, improve performance, reduce labor, and above all, improve sustainability. Versico is committed to driving sustainable and efficient processes in the design and manufacture of products.

Managing Environmental Impact

Versico's company legacy of environmental responsibility began more than 100 years ago when scrap rubber was introduced into the inner-tube production line. Today, millions of pounds of recycled material feed Versico's production processes and the company manufactures products that contain as much as 96% post-consumer or production waste.

EPDM, TPO, and PVC Single-Ply Roofing Membranes

Through innovation and stewardship, Versico continues to increase the use of waste material into production streams. Approximately 246,000 tons of single-ply material have been recycled and kept out of landfills since 1999.

Product Line's Pre-Consumer Recycled Content

EPDM 5%	TPO Up to 10%	PVC Up to 10%
Insulation Up to 10%	Metal Up to 15%	EPS Up to 25%

Products with High Recycled Content



DuraStorm VSH Cover Board

Since its launch in 2019, Versico's DuraStorm VSH has diverted 6.5 million lbs. of plastic and paper from landfills.

- Sourced from post-industrial and post-consumer waste streams
- Extreme moisture and mold resistance

Nationwide Foam Recycling

Versico has been partnering with Nationwide Foam Recycling (NFR) since 2014 to recycle XPS, EPS, and polyiso insulations, as well as TPO, EPDM, and PVC roofing membranes. Re-roofing contractors who recycle can help building owners exceed their LEED and sustainability goals.

Extending Circular Economy Programs

Versico continues to find innovative ways to reduce landfill use by repurposing office and factory paper and cardboard. Versico's polyiso insulation now includes 'facer paper' made entirely from this waste.

Packaging Sustainability

Versico is collaborating with Clean Earth to help reduce landfill waste generated from the commercial roofing industry. Versico is dedicated to sustainability in all facets of its business, including product packaging. This partnership with Clean Earth will help improve the long-term health of our planet.



Air Quality Management

Versico's QA (Quick-Applied) EPDM and TPO membranes save labor and eliminate solvents. Versico's TPO membrane fuses a 100%-solids, hot-melt adhesive to the bottom ply of the TPO membrane, while Versico's EPDM membrane utilizes a pressure-sensitive acrylic-based self-adhesive.

Versico's RapidLock (RL) Roofing System is a revolutionary membrane attachment method that provides an adhered membrane without the use of adhesives.

VacuSeal™ Vent Secured Roofing System is a revolutionary assembly that uses special vents to harness the power of the wind and secure the roof membrane in place. VacuSeal systems have zero adhesives, no fumes or odors, and offer proven performance.

Non-Halogenated Flame Retardants

VersiCore NH and **SecurShield® NH Polyiso** insulations provide the same performance characteristics as standard polyiso products but contain no halogenated flame retardants.

- Living Building Challenge “Red List Free” with Declare label and product database listing
- Zero halogenated flame retardants
- Can contribute toward LEED v4 credit requirements
- Living Building Challenge compatible
- California Department of Public Health (CDPH) VOC emissions compliant

Versico is adopting the use of new blowing agents that are much better for the ozone. HFO (hydrofluoroolefin) blowing agents are widely recognized as being more environmentally friendly than their HFC (hydrofluorocarbon) predecessors.

Energy and Resource Conservation

Carlisle Construction Materials is the largest producer of polyiso in the United States. For every ton of CO₂ consumed in manufacturing polyiso, CCM customers avoid emitting up to 34 tons of CO₂ over the life of the product.

Versico's OPTIM-R® provides an R-38 insulating value in a 2.6" total system thickness.

- Highest insulating value in the thinnest profile
- Over 90% recyclable (by weight)
- Up to five times the R-value of commonly used roofing insulation products

White membranes are often selected because of their reflective, energy-saving properties. However, these membranes can get dirty and scuffed during installation. **PVC APEEL Protective Film** is 100% recyclable and guards the surface of the PVC membrane, keeping it white and reflective until the installation is complete. APEEL also saves the roofing contractor water and labor needed to clean the roof of boot scuffs and construction dirt at the end of the job. Even on a small job, this could be hundreds of gallons of water saved.

Versico's Roof Gardens provide improved stormwater management; 55-80% of all stormwater that falls on a Roof Garden annually is retained and not released into drains as runoff.

In 2020 Versico reduced the pounds of VOCs emitted by:



LEED, Green Globes, and Living Building Challenge

For years, sustainable initiatives have been popping up in all aspects of our lives. In the construction industry, there are three main programs pushing for greener buildings: LEED, Green Globes, and Living Building Challenge (LBC). All three of these programs seek to reduce the carbon footprint of buildings, but each takes a different approach to accomplish this goal.

		
Overall Mission		
<p>LEED wants to make buildings better for the environment, community, and those who use the building.</p>	<p>Green Globes wants to make buildings more environmentally efficient based on commonly valued environmental outcomes.</p>	<p>Living Building Challenge (LBC) promotes buildings that have a positive environmental impact.</p>
Certification Methods/Requirements		
<ul style="list-style-type: none"> • Points-based rating system (100 points possible) • Four levels of certification: Certified, Silver, Gold, and Platinum 	<ul style="list-style-type: none"> • Points-based rating system (1,000 points possible) • Four levels of certification: 1 Globe, 2 Globes, 3 Globes, 4 Globes 	<ul style="list-style-type: none"> • Seven petals (like those of a plant or flower) broken down into 20 imperatives; number of petals/imperatives completed determines award • Three awards are available (based on which path you take) • A Zero Carbon Certification and a Zero Energy Certification are available
Main Points of Focus		
<p>Location & Transportation, Sustainable Sites, Water Efficiency, Energy & Atmosphere, Material & Resources, Indoor Environmental Quality, Innovation, Regional Priority, and Integrative Process</p>	<p>Project Management, Site Energy, Water, Materials & Resources, Emissions, Indoor Environment</p>	<p>Place, Water, Energy, Health & Happiness, Materials, Equity, and Beauty</p>

The key below can be used to easily identify the Versico products in this brochure that contribute to meeting the green qualifications for LEED, Green Globes, and Living Building Challenge (LBC).



LEED V4 & V4.1
SS – Sustainable Sites



LEED V4 & V4.1
WE – Water Efficiency



LEED V4 & V4.1
EA – Energy and Atmosphere



LEED V4 & V4.1
MR - Materials and Resources



LEED V4 & V4.1
EQ - Indoor Environmental Quality



Green Globes



LBC Materials and Health and Happiness Petals

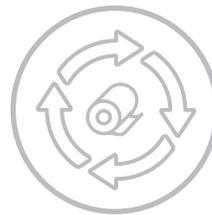
Energy Efficient and Sustainable – Sustainable roofing isn't about color, it's about performance, which is why Versico Roofing Systems offers the most diverse and versatile line of EPDM membranes on the market. Versico's EPDM single-ply membrane has over a half century track record of performance and resiliency, providing an energy efficient and sustainable roof system.

Performance & Savings – Cradle to Grave

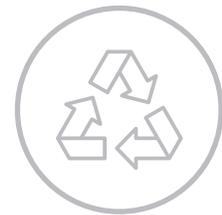
The Athena Institute, a non-profit lifecycle analysis (LCA) organization specializing in building materials, updated its EcoCalculator to include LCA data for EPDM membranes. The institute found that EPDM has the lowest Global Warming Potential of any major commercial roofing material.

In fact, EPDM can offset its carbon footprint in as little as 15 years, compared to other materials that may require up to 54 years of service life to equal the carbon footprint resulting from their manufacturing process.

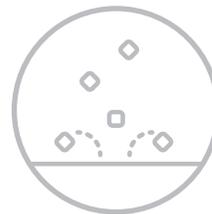
The Standard of Sustainability



Lowest lifecycle costs
of any commercial
roofing material



Recyclable
membranes keep
waste out of landfills



Field proven hail
resistance



Contributes
toward LEED
certification

Defining the Standard

Defining the standard means sustainable offerings such as the proven long term weathering performance and hail resistance advantage of EPDM. It means maximum energy efficiency for every EPDM roof, whether you are focused on reducing heating or cooling costs. Versico's EPDM continues to define the standard, leading the industry with a comprehensive product line of high-performance, eco-friendly and energy-efficient roofing materials.

Versico's focus on sustainability does not end there. Reduced landfill space and increasing waste disposal costs throughout the nation have led to heightened interest in rooftop recycling. Loose-laid or mechanically-fastened EPDM is an inherently recyclable membrane that is useful in many post-consumer applications. Even the ballast and insulation taken from an EPDM roof can be reused or recycled.



Solar Panels on an EPDM Roof



Recycling aged EPDM

VersiGard Non-Reinforced EPDM Membranes



Ideal for use in fully adhered and ballasted assemblies, Versico's non-reinforced EPDM membranes have a strong track record of performance and dependability. Non-reinforced EPDM features a full monolithic thickness of exceptional weathering material, comes in sheet sizes up to 50' wide by 200' long, and complies with ASTM D4637 Type I.

LEED Information

Pre-consumer Recycled Content	5%
Post-consumer Recycled Content	0%
Manufacturing Location	Carlisle, PA Greenville, IL
Solar Reflectance Index (SRI)	9
Corporate Sustainability Report	Yes

VersiGard Reinforced EPDM Membranes



VersiGard polyester-reinforced EPDM membranes feature 5% post-consumer recycle content and are ideal for fully adhered and mechanically attached roofing systems. These membranes are resistant to punctures, tears, and scuffs and are formulated to provide fire resistance. Available with an accidental puncture warranty, reinforced EPDM roofing systems provide enhanced rooftop durability and puncture resistance. VersiGard reinforced EPDM membranes comply with ASTM D4637 Type II.

LEED Information

Pre-consumer Recycled Content	5%
Post-consumer Recycled Content	5%
Manufacturing Location	Carlisle, PA
Solar Reflectance Index (SRI)	9
Corporate Sustainability Report	Yes

VersiGard White EPDM Membranes



VersiGard White EPDM is an ideal solution for building owners looking to reduce air conditioning costs without compromising performance or durability. VersiGard White EPDM membranes feature the same material characteristics as Versico's standard EPDM, have over 30 years of proven field performance, come in sheet sizes up to 20' wide by 100' long, and comply with ASTM D4637 Type I.

LEED Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Carlisle, PA
Solar Reflectance Index (SRI)	98
Corporate Sustainability Report	Yes

VersiFleece RL EPDM RapidLock Membrane



Versico's RapidLock (RL) Roofing System is a revolutionary method of membrane attachment resulting in a fully adhered membrane without the use of adhesives. This innovative system utilizes VELCRO® Brand Securable Solutions along with VersiFleece RL EPDM to achieve performance equal to that of traditional adhered single-ply systems.

LEED Information

Pre-consumer Recycled Content	5%
Post-consumer Recycled Content	0%
Manufacturing Location	Carlisle, PA
Solar Reflectance Index (SRI)	0-1

VersiFleece AC EPDM Membrane



Versico's VersiFleece AC EPDM membranes are manufactured using a patented hot-melt adhesive technology to bond a fleece backing to the EPDM sheet. VersiFleece AC EPDM membranes are intended for mechanically attached systems and are ideally suited for recovering aged smooth BUR, mineral cap sheets or SBS modified bitumen roofs.

LEED Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Carlisle, PA
Solar Reflectance Index (SRI)	0-1

LEED V4 & V4.1 - Product Reference Guide

FOR GREEN BUILDING RATING SYSTEMS



SS - Sustainable Sites	EA - Energy and Atmosphere	MR - Materials and Resources				EQ - Indoor Environmental Quality	
Heat Island Reduction Option 1 & 2 Up to 2 PTS	Optimize Energy Performance Option 1 & 2 Up to 20 PTS	Construction & Demolition Waste Management Planning Prerequisite	Building Product Disclosure and Optimization – Environmental Product Declarations Option 1 Up to 2 PTS	Building Product Disclosure and Optimization – Sourcing of Raw Materials Option 1 & Option 2 Up to 2 PTS	PBT Source Reduction - Lead, Cadmium And Copper 1 PT	Thermal Comfort Option 1 & 2 1 PT	Acoustic Performance Up to 2 PTS

EPDM THERMOSET MEMBRANE ROOFING

	SS	EA	MR	MR	MR	MR	EQ	EQ
VERSIGARD NON- REINFORCED EPDM		✓	✓	✓	✓	✓	✓	✓
VERSIGARD REINFORCED EPDM		✓	✓	✓		✓	✓	✓
VERSIGARD QA (QUICK-APPLIED) REINFORCED EPDM		✓				✓	✓	✓
VERSIGARD NON-REINFORCED WHITE EPDM	✓	✓	✓			✓	✓	✓
VERSIGARD WHITE QA (QUICK-APPLIED) NON-REINFORCED EPDM	✓	✓				✓	✓	✓
VERSIGARD QA (QUICK-APPLIED) NON-REINFORCED EPDM		✓			✓	✓	✓	✓
VERSIFLEECE AC EPDM		✓				✓	✓	✓
VERSIFLEECE WHITE AC EPDM	✓	✓				✓	✓	✓
VERSIFLEECE RL™ EPDM		✓			✓	✓	✓	✓

Green Globes - NC 2019 - Product Reference Guide

FOR GREEN BUILDING RATING SYSTEMS



	Site	Materials			Indoor Environment	
	Construction Impacts - Mitigating Heat Island Effect Up to 14 PTS	Product Life Cycle Up to 29 PTS	Sustainable Materials Attributes Up to 10 PTS	Waste Up to 22 PTS	Thermal Comfort - Thermal Comfort Design Up to 9 PTS	Acoustic Comfort - Airborne Noise Isolation Up to 6 PTS
EPDM THERMOSET MEMBRANE ROOFING						
VERSIGARD NON- REINFORCED EPDM						
VERSIGARD REINFORCED EPDM						
VERSIGARD QA (QUICK-APPLIED) REINFORCED EPDM						
VERSIGARD NON-REINFORCED WHITE EPDM						
VERSIGARD WHITE QA (QUICK-APPLIED) NON-REINFORCED EPDM						
VERSIGARD QA (QUICK-APPLIED) NON-REINFORCED EPDM						
VERSIFLEECE AC EPDM						
VERSIFLEECE WHITE AC EPDM						
VERSIFLEECE RL EPDM						

Living Building Challenge 4.0 - Product Reference Guide

FOR GREEN BUILDING RATING SYSTEMS



Materials Petal

Net Positive Waste

EPDM THERMOSET MEMBRANE ROOFING

VERSIGARD NON- REINFORCED EPDM	
VERSIGARD REINFORCED EPDM	
VERSIGARD QA (QUICK-APPLIED) REINFORCED EPDM	
VERSIGARD NON-REINFORCED WHITE EPDM	
VERSIGARD WHITE QA (QUICK-APPLIED) NON-REINFORCED EPDM	
VERSIGARD QA (QUICK-APPLIED) NON-REINFORCED EPDM	
VERSIFLEECE AC EPDM	
VERSIFLEECE WHITE AC EPDM	
VERSIFLEECE RL EPDM	

Thermoplastic polyolefin (TPO) membranes are the fastest-growing segment in the commercial roofing industry and are highly reflective and heat/UV resistant. TPO membranes first became commercialized for roofing in the late 1980's and since 2007 TPO has been the largest market segment of low-slope roofing.

Versico is committed to driving measurable results that will contribute to our legacy of sustainability. Versico's long history of responsible and sustainable practices extends to the development and production of our highly engineered, energy efficient products and solutions such as VersiWeld TPO membranes and roof systems.

Versico's highly reflective VersiWeld TPO membranes can help reduce the urban heat island effect, reduce energy consumption in warm climates, and contribute to sustainable building certifications such as LEED and Living Building Challenge.

Sustainable attributes include:

- 10% pre-consumer recycled content
- Fully recyclable when used in mechanically attached systems
- 3rd-Party verified Environmental Product Declaration available
- NSF P151 certification for rainwater catchment*
- Certified by the Cool Roof Rating Council and California Title 24 compliant**
- Free of Living Building Challenge red list chemicals

*White membrane only, produced in Tooele, UT or Carlisle, PA

**White and Tan only

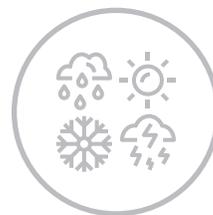
Advantages of VersiWeld TPO



Proven Long-term Performance



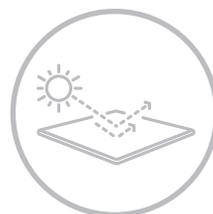
Long-term Energy Efficiency in Warm Climates



Greater Weather Resistance



Cleaner Surface



Excellent Heat and UV Resistance



Industry Leading Weathering Package



VersiWeld TPO Membrane



Features and Benefits

- Excellent fire resistant assemblies
- 100% recyclable
- Excellent resistance to impact and low temperatures
- Exceptional resistance to heat, solar UV, ozone and oxidation

LEED Information

Pre-consumer Recycled Content	Up to 10%
Post-consumer Recycled Content	0%
Manufacturing Location	Senatobia, MS Tooele, UT Carlisle, PA
Solar Reflectance Index (SRI)	99 (white); 52 (gray); 86 (tan)

Quick-Applied TPO Membrane



Features and Benefits

- No solvents, VOCs or odors
- FM, UL and CRRC rated; UL-2218 Class 4 Rating
- Enhanced with the OctaGuard XT weathering package
- Highly reflective and energy efficient

LEED Information

Pre-consumer Recycled Content	8%
Post-consumer Recycled Content	0%
Manufacturing Location	Tooele, UT
Solar Reflectance Index (SRI)	99 (white); 52 (gray); 86 (tan)

VersiFleece TPO Membrane



Features and Benefits

- Choice of white, gray, or tan membranes that are UL Class A rated
- Superior wind uplift performance and ratings (up to an FM 1-990)
- Fleece reinforcement adds toughness, durability, and enhanced puncture resistance
- Excellent hail damage resistance

LEED Information

Pre-consumer Recycled Content	10%
Post-consumer Recycled Content	0%
Manufacturing Location	Senatobia, MS Tooele, UT
Solar Reflectance Index (SRI)	99 (white); 52 (gray); 86 (tan)

VersiFleece RL TPO RapidLock Membrane



Versico's RapidLock (RL) Roofing System is a revolutionary method of membrane attachment resulting in an adhered membrane without the use of adhesives. This innovative system utilizes VELCRO® Brand Securable Solutions along with VersiFleece RL TPO to achieve performance equal to traditional adhered single-ply systems.

Features and Benefits

- No VOCs, odors or temperature restrictions
- UL Class A rated
- Wind uplift ratings comparable to traditional fully-adhered single-ply systems
- Up to a 30-year warranty

LEED Information

Pre-consumer Recycled Content	10%
Post-consumer Recycled Content	0%
Manufacturing Location	Senatobia, MS
Solar Reflectance Index (SRI)	99 (white); 52 (gray)

VersiFleece AC TPO Membrane



Features and Benefits

- UL Class A rated
- Contains no chlorine or plasticizers
- Excellent chemical resistance to acids, bases, restaurant oils, and greases
- Excellent hail damage resistance

LEED Information

Pre-consumer Recycled Content	10%
Post-consumer Recycled Content	0%
Manufacturing Location	Senatobia, MS Tooele, UT
Solar Reflectance Index (SRI)	111 (white)

LEED V4 & V4.1 - Product Reference Guide

FOR GREEN BUILDING RATING SYSTEMS



SS - Sustainable Sites	EA - Energy and Atmosphere	MR - Materials and Resources				EQ - Indoor Environmental Quality	
Heat Island Reduction Option 1 & 2 Up to 2 PTS	Optimize Energy Performance Option 1 & 2 Up to 20 PTS	Construction & Demolition Waste Management Planning Prerequisite	Building Product Disclosure and Optimization – Environmental Product Declarations Option 1 Up to 2 PTS	Building Product Disclosure and Optimization – Sourcing of Raw Materials Option 1 & Option 2 Up to 2 PTS	PBT Source Reduction - Lead, Cadmium And Copper 1 PT	Thermal Comfort Option 1 & 2 1 PT	Acoustic Performance Up to 2 PTS

THERMOPLASTIC MEMBRANE ROOFING

	SS	EA	MR	MR	MR	MR	EQ	EQ
VERSIWELD TPO	✓	✓	✓	✓	✓	✓	✓	✓
VERSIWELD QA (QUICK-APPLIED) TPO	✓	✓			✓	✓	✓	✓
VERSIFLEECE TPO	✓	✓			✓	✓	✓	✓
VERSIFLEECE AC TPO	✓	✓			✓	✓	✓	✓
VERSIFLEECE RL TPO	✓	✓			✓	✓	✓	✓

Green Globes - NC 2019 - Product Reference Guide

FOR GREEN BUILDING RATING SYSTEMS



Site	Materials			Indoor Environment	
Construction Impacts - Mitigating Heat Island Effect Up to 14 PTS	Product Life Cycle Up to 29 PTS	Sustainable Materials Attributes Up to 10 PTS	Waste Up to 22 PTS	Thermal Comfort - Thermal Comfort Design Up to 9 PTS	Acoustic Comfort - Airborne Noise Isolation Up to 6 PTS

THERMOPLASTIC MEMBRANE ROOFING

VERSIWELD TPO						
VERSIWELD QA (QUICK-APPLIED) TPO						
VERSIFLEECE TPO						
VERSIFLEECE AC TPO						
VERSIFLEECE RL TPO						

Living Building Challenge 4.0 - Product Reference Guide

FOR GREEN BUILDING RATING SYSTEMS



Materials Petal

Red List

Net Positive Waste

THERMOPLASTIC MEMBRANE ROOFING

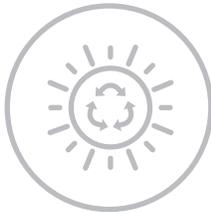
	Red List	Net Positive Waste
VERSIWELD TPO		
VERSIWELD QA (QUICK-APPLIED) TPO		
VERSIFLEECE TPO		
VERSIFLEECE AC TPO		
VERSIFLEECE RL TPO		

Versico has taken this proven performer and improved its integrity, flexibility, and weatherability. Featuring a variety of colors, reinforcements and other enhancement options, Versico's VersiFlex PVC and KEE HP product breadth and long-term performance is unmatched.

Advantages of VersiFlex PVC



**Proven performance
and industry longevity**



**Environmental efficiency through
reflectivity and recyclability**



**Chemical and fire resistance makes PVC &
KEE HP ideal for a variety of building types**

PVC is the World's Third Most Important Plastic!

57% of PVC resin feedstock is derived from salt water, a resource that is available in virtually unlimited amounts. The chemical make-up of this thermoplastic is not only unique because it utilizes less than 50% fossil fuels, but also because it imparts a range of technical features in PVC that set it apart from many other polymers including resistance to fire, alkalis, acids, and many organic solvents.

Used in a vast array of products and industries, PVC is recyclable and often used in products such as luxury vinyl tile, garden hoses, and car matting. When used in roofing applications, PVC membrane can be made in a variety of colors, but most notably, highly reflective colors that provide energy savings helping to reduce carbon emissions and combat urban heat island effect.



VersiFlex PVC Membrane



Versico's flagship PVC membrane, VersiFlex PVC is an advanced-formula, heat-weldable membrane enhanced by a strong anti-wicking scrim. Developed decades ago and trusted by some of the world's most venerable institutions, Versico's formulation is design for long-term performance.

LEED Information

Pre-consumer Recycled Content	Up to 10%
Post-consumer Recycled Content	0%
Manufacturing Location	Greenville, IL
Solar Reflectance Index (SRI)	White: 110, Tan: 89, Gray: 70, Light Gray: 91, Slate Gray: N/A

VersiFlex KEE HP Membrane



VersiFlex KEE HP PVC utilizes DuPont Elvaloy KEE HP (Ketone Ethylene Ester High Performance), a resin modifier that results in enhanced chemical resistance, increased UV protection, and improved long-term weathering and cleanliness when compared to PVC and standard KEE. Formulated with the optimal amount of KEE HP, Versico's VersiFlex KEE HP PVC is ideal for some of the harshest, most demanding roofing applications.

LEED Information

Pre-consumer Recycled Content	Up to 10%
Post-consumer Recycled Content	0%
Manufacturing Location	Greenville, IL
Solar Reflectance Index (SRI)	White: 110, Tan: 89, Gray: 69, Light Gray: 93

VersiFleece PVC Membrane



Versico's VersiFleece PVC is an advanced-formula, heat-weldable PVC membrane enhanced with fleece on the bottom side of the membrane, creating a tough, durable, and versatile sheet that is ideal for re-roofing or new construction projects. In addition to providing a built-in separation layer which allows for use on a variety of substrates, the fleece backing significantly enhances the membrane's puncture resistance.

LEED Information

Pre-consumer Recycled Content	Up to 10%
Post-consumer Recycled Content	0%
Manufacturing Location	Greenville, IL
Solar Reflectance Index (SRI)	White: 110, Tan: 90, Gray: 69, Light Gray: 93

VersiFleece KEE HP Membrane



Versico's premium VersiFleece KEE HP membrane is manufactured using Dupont Elvaloy KEE HP resin modifier and features a fleece backing. The industry-leading formulation and fleece construction yields a membrane with the enhanced weathering, chemical, and puncture resistance needed for the most demanding roofing applications.

LEED Information

Pre-consumer Recycled Content	Up to 10%
Post-consumer Recycled Content	0%
Manufacturing Location	Greenville, IL
Solar Reflectance Index (SRI)	White: 110, Tan: 90, Gray: 69, Light Gray: 93

VersiFleece RL PVC RapidLock Membrane



Versico's RapidLock (RL) Roofing System is a revolutionary membrane attachment method that provides an adhered membrane without the use of adhesives. This innovative system utilizes VELCRO® Brand Securable Solutions along with VersiFleece RL PVC to achieve performance equal to adhered single-ply systems. Underlayment options include VersiCore RL, SecurShield® RL, or SecurShield HD RL Polyiso. RapidLock systems are VOC- and odor-free, have no temperature restrictions, and offer significant labor savings due to their simplicity and ease of installation.

LEED Information

Pre-consumer Recycled Content	Up to 10%
Post-consumer Recycled Content	0%
Manufacturing Location	Greenville, IL
Solar Reflectance Index (SRI)	White: 110

LEED V4 & V4.1 - Product Reference Guide

FOR GREEN BUILDING RATING SYSTEMS



SS - Sustainable Sites	EA - Energy and Atmosphere	MR - Materials and Resources				EQ - Indoor Environmental Quality	
Heat Island Reduction Option 1 & 2 Up to 2 PTS	Optimize Energy Performance Option 1 & 2 Up to 20 PTS	Construction & Demolition Waste Management Planning Prerequisite	Building Product Disclosure and Optimization – Environmental Product Declarations Option 1 Up to 2 PTS	Building Product Disclosure and Optimization – Sourcing of Raw Materials Option 1 & Option 2 Up to 2 PTS	PBT Source Reduction - Lead, Cadmium And Copper 1 PT	Thermal Comfort Option 1 & 2 1 PT	Acoustic Performance Up to 2 PTS

PVC MEMBRANE ROOFING

VERSIFLEX PVC								
VERSIFLEX KEE HP								
VERSIFLEECE PVC								
VERSIFLEECE KEE HP								
VERSIFLEECE RL PVC								

Green Globes - NC 2019 - Product Reference Guide

FOR GREEN BUILDING RATING SYSTEMS



	Site	Materials			Indoor Environment	
	Construction Impacts - Mitigating Heat Island Effect Up to 14 PTS	Product Life Cycle Up to 29 PTS	Sustainable Materials Attributes Up to 10 PTS	Waste Up to 22 PTS	Thermal Comfort - Thermal Comfort Design Up to 9 PTS	Acoustic Comfort - Airborne Noise Isolation Up to 6 PTS
PVC MEMBRANE ROOFING						
VERSIFLEX PVC						
VERSIFLEX KEE HP						
VERSIFLEECE PVC						
VERSIFLEECE KEE HP						
VERSIFLEECE RL PVC						

Living Building Challenge 4.0 - Product Reference Guide

FOR GREEN BUILDING RATING SYSTEMS



Materials Petal

Net Positive Waste

PVC MEMBRANE ROOFING

VERSIFLEX PVC	
VERSIFLEX KEE HP	
VERSIFLEECE PVC	
VERSIFLEECE KEE HP	
VERSIFLEECE RL PVC	

THERMAL INSULATION

Energy-Efficient Polyiso Insulation – One of the simplest ways to support sustainable construction practices is by using insulation. Versico’s lightweight, cost-effective polyisocyanurate (polyiso) insulation products provide energy-efficient solutions for buildings in any region and climate, as well as outstanding return on investment and significant energy savings. With an industry-leading eight polyiso manufacturing lines strategically positioned throughout North America, Versico can provide innovative insulation products to any jobsite.

Advantages of Polyiso Insulation



Energy Efficiency

- High R-value per inch compared to other insulation products
- Published Long-Term Thermal Resistance (LTTR) values for roof insulation products
- Continuous insulation solution for the entire building envelope
- Reduces costly thermal bridges in roofs and walls when compared to cavity insulation only



Fire Performance

- Inherent fire resistance due to unique chemical bonds
- Thermoset material that does not melt or drip when exposed to flame (ASTM E84)
- Offers direct-to-deck attachment option for steel deck roofs (FM 4450/UL 1256)
- Versatile insulation solution for NFPA 285-compliant wall assemblies



Environmental

- Versico-specific Environmental Product Declaration reports available
- Contains blowing agents with zero ODP and low GWP
- Energy savings potential is equal to up to 47 times the product’s embodied energy
- Recyclable through reuse where permitted and contains recycled content (varies by product)



Ease Of Use

- Third-party testing approvals for an expansive number of assemblies and applications
- Available in a variety of product thicknesses and dimensions
- Compatible with most roof and wall coverings, adhesives, and attachment systems
- Lightweight and easy to cut, reducing labor costs and time



Economic

- Meets today’s code-required R-values without the added layers or increased costs of thicker assemblies
- High R-value equals thinner wall assemblies and savings from shorter fasteners
- Wall insulation can replace the need for other air and water barrier products
- HD cover boards protect owner’s investment and can reduce maintenance costs



Other Attributes

- Available facer types to meet individual product needs
- Reduces the potential for problems associated with air and moisture intrusion
- Contributes to assembly’s overall durability and service life
- Regionally available via a nationwide network of manufacturing plants

VersiCore Polyiso Insulation



Features and Benefits

- Environmentally friendly construction with 0% ozone-depleting components and CFC free
- VersiCore polyiso insulation provides the highest R-value per inch of commercially available insulation products

LEED Information



Information varies by thickness of the board.
Scan or Click here to visit the LEED Letter Tool for exact information.
www.versico.com/Professionals/Letters/LEED-Letter

VersiCore NH Polyiso Insulation



Features and Benefits

- Living Building Challenge “Red List Free” – Declare Label
- Contains zero halogenated flame retardants
- VersiCore NH polyiso insulation provides the highest R-value per inch of commercially available insulation products
- Environmentally friendly construction with 0% ozone-depleting components and CFC free

LEED Information



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www.versico.com/Professionals/Letters/LEED-Letter

VersiCore RL Polyiso RapidLock Insulation



Features and Benefits

- Allows for adhesiveless membrane attachment
- Provides the highest R-value per inch of commercially available roofing insulation products
- Environmentally friendly construction with 0% ozone-depleting components and CFC free
- Approved for direct application to steel decks

LEED Information



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www.versico.com/Professionals/Letters/LEED-Letter

SecurShield Polyiso Insulation



Features and Benefits

- Zero ozone-depleting components, CFC free and HCFC free
- Superior bond to the foam core enhances wind uplift performance
- Premium facer improves fire resistance, moisture resistance, and dimensional stability

LEED Information



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SecurShield NH Polyiso Insulation



Features and Benefits

- Living Building Challenge “Red List Free” – Declare Label
- Contains zero halogenated flame retardants
- Premium facer improves fire resistance, moisture resistance, and dimensional stability
- Enhanced fire resistance for applications directly over wood decks with no fire-rated base sheet or thermal barrier required

LEED Information



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SecurShield RL Polyiso Insulation



Features and Benefits

- Rigid roof insulation panel composed of a high-density, closed-cell polyisocyanurate foam core laminated to a premium-performance, coated glass mat facer (CGF)
- Allows for adhesiveless membrane attachment
- Exceptional protection against hail, rooftop traffic, mold, and moisture
- ASTM C1289, Type II, Class 4, Grade 1 (109 psi max)

LEED Information



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From cost savings to warranty, not all insulations perform the same, especially when it comes to environmental impact. EPS rigid insulations are 100% recyclable, insect- and decay-resistant, have a stable long-term R-Value, and have the lowest carbon footprint of all rigid insulations.

Used in virtually every part of the building envelope, these environmental advantages stack up LEED points for EPS products. With environmental and energy codes increasing, the design community has become quick to consider these factors when choosing rigid insulation.

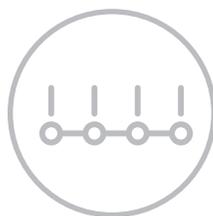
Environmental Advantages of EPS



**Insect & Decay
Resistant**



**100%
Recyclable**



**Long-Term
R-Value**



**Low Carbon
Footprint**

Insulfoam Flat



Features and Benefits

- Environmentally friendly: contains no ozone-depleting blowing agents, may contain recycled material, and is 100% recyclable if removed or replaced
- Stable R-value: thermal properties will remain stable over the material's entire service life, no thermal drift
- Moisture and mold resistance: does not readily absorb moisture from the environment, does not sustain mold or mildew growth
- Proven performance: manufactured using the same chemistry since the mid-1950s
- Variety of compressive strengths: available in more compressive strengths than comparable insulation products

LEED Information



Information varies by thickness of the board.
Scan or Click here to visit the LEED Letter Tool for exact information.
www.versico.com/Professionals/Letters/LEED-Letter

VersiCore HD Polyiso Insulation



Features and Benefits

- Environmentally friendly construction with 0% ozone-depleting components and CFC free
- VersiCore HD is specifically designed for use as a cover board in mechanically attached single-ply systems only
- Provides a higher R-value than other cover board options.
- VersiCore HD delivers an R-value of 2.5 and a compressive strength of 80 psi

LEED Information



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Scan or Click here to visit the LEED Letter Tool for exact information.
www.versico.com/Professionals/Letters/LEED-Letter

SecurShield HD Polyiso Insulation



Features and Benefits

- Zero ozone-depleting components, CFC free and HCFC free
- Designed as a cover board for use with both adhered and mechanically attached single-ply membranes
- Premium facer improves fire resistance, moisture resistance, and dimensional stability

LEED Information



Information varies by thickness of the board.
Scan or Click here to visit the LEED Letter Tool for exact information.
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SecurShield HD Plus Polyiso Insulation



Features and Benefits

- Industry leading wind uplift performance allowing for significant fastener reductions
- Provides a higher R-value than other cover board options
- Specifically designed for use as a cover board in fully adhered systems

LEED Information



Information varies by thickness of the board.
Scan or Click here to visit the LEED Letter Tool for exact information.
www.versico.com/Professionals/Letters/LEED-Letter

SecurShield HD RL Polyiso RapidLock Insulation



Features and Benefits

- Zero ozone-depleting components, CFC free and HCFC free
- Premium facer improves fire resistance, moisture resistance, and dimensional stability
- Provides a fully adhered roofing system without VOCs

LEED Information



Information varies by thickness of the board. Scan or Click here to visit the LEED Letter Tool for exact information. www.versico.com/Professionals/Letters/LEED-Letter

SecurShield HD Composite Polyiso Insulation



Features and Benefits

- Base insulation and a cover board provided in a single product
- Highest performing wind uplift performance of any polyiso product
- Facilitates reduced labor and adhesive usage

LEED Information



Information varies by thickness of the board. Scan or Click here to visit the LEED Letter Tool for exact information. www.versico.com/Professionals/Letters/LEED-Letter

DuraFaceR Polyiso Insulation



Features and Benefits

- Environmentally friendly construction with 0% ozone-depleting components and CFC free
- A superior combination of high-insulating properties and a resilient OSB surface, ideal for high-traffic roof installations
- Utilized in projects requiring higher wind speed coverage
- Achieves FM's Very Severe Hail (VSH) rating

LEED Information



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SecurShield HD Composite EPS Insulation



Features and Benefits

- SecurShield HD Composite EPS is an excellent choice for new or retrofit applications where high-thermal efficiency and maximum durability are desired.
- Provides additional resistance to high winds and hail
- Base insulation and a cover board provided in a single product
- Facilitates reduced labor and adhesive usage

LEED Information



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Tapered Insulation
Roof Installation



EPS Roof Installation



Polyiso Job Site Recycling

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FOR GREEN BUILDING RATING SYSTEMS



EA - Energy and Atmosphere	MR - Materials and Resources				EQ - Indoor Environmental Quality	
Optimize Energy Performance Option 1 & 2 Up to 20 PTS	Construction & Demolition Waste Management Planning Prerequisite	Building Product Disclosure and Optimization – Environmental Product Declarations Option 1 Up to 2 PTS	Building Product Disclosure and Optimization – Sourcing of Raw Materials Option 1 & Option 2 Up to 2 PTS	Building Product Disclosure and Optimization – Material Ingredients Option 1 Up to 2 PTS	Thermal Comfort Option 1 & 2 1 PT	Acoustic Performance Up to 2 PTS

THERMAL INSULATION

POLYISOCYANURATE INSULATION GLASS REINFORCED FELT (GRF) FACERS

VERSICORE							
VERSICORE NH							
VERSICORE RL™							

POLYISOCYANURATE INSULATION COATED GLASS FACERS (CGF)

SECURSHIELD®							
SECURSHIELD NH							
SECURSHIELD RL							

EXPANDED POLYSTYRENE (EPS)

INSULFOAM FLAT							
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HIGH-DENSITY POLYISOCYANURATE COVER BOARDS

VERSICORE HD							
SECURSHIELD HD							
SECURSHIELD HD PLUS							
SECURSHIELD HD RL							

COMPOSITE COVER BOARDS

SECURSHIELD HD COMPOSITE (HD POLYISO & POLYISO)							
DURAFACER COMPOSITE (OSB & POLYISO)							
SECURSHIELD HD EPS COMPOSITE (HD POLYISO & EXPANDED POLYSTYRENE)							

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FOR GREEN BUILDING RATING SYSTEMS



	Materials		Indoor Environment	
	Product Life Cycle Up to 29 PTS	Sustainable Materials Attributes Up to 10 PTS	Thermal Comfort - Thermal Comfort Design Up to 9 PTS	Acoustic Comfort - Airborne Noise Isolation Up to 6 PTS
THERMAL INSULATION				
POLYISOCYANURATE INSULATION GLASS REINFORCED FELT (GRF) FACERS				
VERSICORE				
VERSICORE NH				
VERSICORE RL™				
POLYISOCYANURATE INSULATION COATED GLASS FACERS (CGF)				
SECURSHIELD®				
SECURSHIELD NH				
SECURSHIELD RL				
EXPANDED POLYSTYRENE (EPS)				
INSULFOAM FLAT				
HIGH-DENSITY POLYISOCYANURATE COVER BOARDS				
VERSICORE HD				
SECURSHIELD HD				
SECURSHIELD HD PLUS				
SECURSHIELD HD RL				
COMPOSITE COVER BOARDS				
SECURSHIELD HD COMPOSITE (HD POLYISO & POLYISO)				
DURAFACER COMPOSITE (OSB & POLYISO)				
SECURSHIELD HD EPS COMPOSITE (HD POLYISO & EXPANDED POLYSTYRENE)				

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FOR GREEN BUILDING RATING SYSTEMS



**LIVING
BUILDING
CHALLENGE**

	Water Petal	Health + Happiness Petal	Materials Petal			
	Net Positive Water	Healthy Interior Performance	Responsible Materials	Red List	Responsible Sourcing	Living Economy Sourcing
THERMAL INSULATION						
POLYISOCYANURATE INSULATION GLASS REINFORCED FELT (GRF) FACERS						
VERSICORE		✔				✔
VERSICORE NH	✔	✔	✔	✔	✔	✔
VERSICORE RL™		✔				✔
POLYISOCYANURATE INSULATION COATED GLASS FACERS (CGF)						
SECURSHIELD®		✔				✔
SECURSHIELD NH		✔	✔	✔	✔	✔
SECURSHIELD RL		✔				✔
EXPANDED POLYSTYRENE (EPS)						
INSULFOAM FLAT						✔
HIGH-DENSITY POLYISOCYANURATE COVER BOARDS						
VERSICORE HD		✔				✔
SECURSHIELD HD		✔				✔
SECURSHIELD HD PLUS		✔				✔
SECURSHIELD HD RL		✔				✔
COMPOSITE COVER BOARDS						
SECURSHIELD HD COMPOSITE (HD POLYISO & POLYISO)		✔				✔
DURAFACER COMPOSITE (OSB & POLYISO)		✔				✔
SECURSHIELD HD EPS COMPOSITE (HD POLYISO & EXPANDED POLYSTYRENE)						✔

Roof Garden Roofing Systems

Versico offers a diverse line of traditional and modular Roof Garden systems, as well as complementary items such as concrete, porcelain and rubber paver systems. Versico Roof Garden accessory items include protection fabrics, drainage boards, edging systems, growth media, and various vegetation options to meet almost any rooftop design. When Versico's Roof Garden and pavers systems are coupled with an approved Versico roofing system, a single-source overburden warranty is available for up to 20 years.

Advantages of Roof Gardens



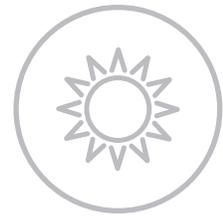
Improved Stormwater Management

Filter and reduce stormwater, helping to prevent flooding and minimize the stress placed on sewer systems.



Enhanced Amenity Space

Add aesthetically appealing real estate to your building and give tenants much-needed green space.



Reduced Urban Heat Island Effect

Reduce the urban heat island effect as the sunlight is absorbed into the vegetation and used for growth instead of being converted into heat energy.



Extended Roof Lifecycle

Protect your membrane and substrate from weathering, extending the service life of your roof system.



Increased Air and Water Purification

Capture airborne pollutants and atmospheric deposition while also filtering noxious gases.



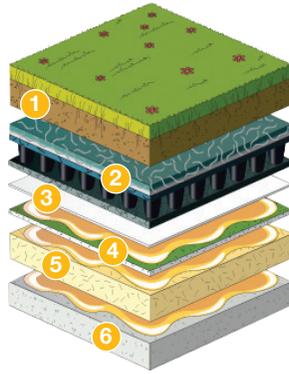
Habitat For Wildlife

Provide extra wildlife environments for the bee population and migrating birds, especially in towns and cities where natural habitats are scarce.

Roof Garden Traditional Assemblies

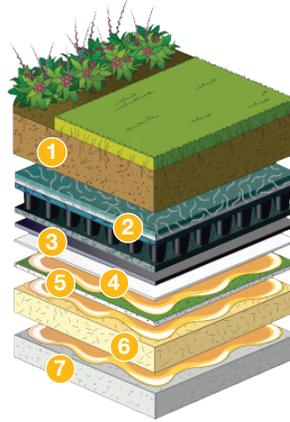


Versico offers a broad array of traditional Roof Garden systems that incorporate a variety of waterproofing options and a full line of accessories for a high-performance assembly. This includes a range of membranes that carry up to 20-year warranties, engineered growth media, and vegetation options.



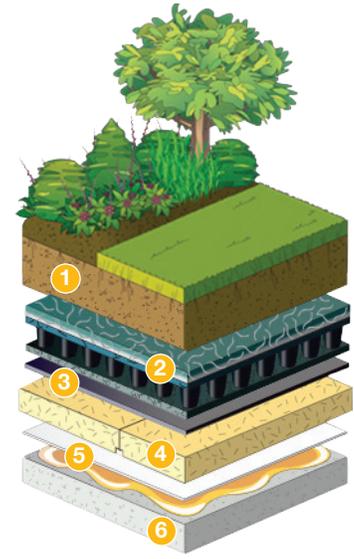
Extensive – Shallow Assembly

1. Growth Media – up to 5"
2. MiraDRAIN® G4
3. Adhered Versico Roof Membrane including VersiGard EPDM, VersiWeld TPO, VersiFlex PVC or VersiFlex KEE HP
4. Adhered Coverboard (½" min. thickness) including SecurShield HD, DensDeck Prime and Securock
5. Approved Insulation
6. Substrate



Intensive – Medium/Deep Assembly

1. Growth Media – over 5"
2. MiraDRAIN G4
3. 40-mil Root Barrier
4. Adhered Versico Roof Membrane including VersiGard EPDM, VersiWeld TPO, VersiFlex PVC or VersiFlex KEE HP
5. Adhered Coverboard (½" min. thickness) including SecurShield HD, DensDeck Prime and Securock
6. Approved Insulation
7. Substrate



Intensive IRMA – Medium/Deep Assembly

1. Growth Media – over 5"
2. MiraDRAIN G4
3. 40-mil Root Barrier
4. Expanded Polystyrene Insulation with drainage channels
5. Adhered Versico VersiFleece Membrane including VersiFleece TPO, PVC, and KEE HP
6. Substrate

Roof Garden Modular Tray Systems



Modular Tray Roof Garden systems provide many of the benefits of a traditional Roof Garden with the advantage of being quick and easy to install. Modular Tray Roof Garden systems are self-contained and feature dedicated drainage, filtration, FLL compliant growth media and pre-grown vegetation.



Hydropack



GreenGrid

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FOR GREEN BUILDING RATING SYSTEMS



SS - Sustainable Sites					
Site Development – Protect or Restore Habitat Option 1 Up to 2 PTS	Open Space 1 PT	Rainwater Management Option1 Up to 3 PTS	Heat Island Reduction Option 1 & 2 Up to 2 PTS	Site Master Plan 1 PT	Places of Respite 1 PT

VEGETATED ROOF SYSTEMS

CCW 300HV PROTECTION COURSE	✔	✔	✔	✔	✔	✔
CCW 200V PROTECTION COURSE	✔	✔	✔	✔	✔	✔
ROOT BARRIER	✔	✔	✔	✔	✔	✔
MIRADRAIN G4	✔	✔	✔	✔	✔	✔
MIRADRAIN 9800	✔	✔	✔	✔	✔	✔
MIRADRAIN IDB	✔	✔	✔	✔	✔	✔
HYDRO-BLANKET D13	✔	✔	✔	✔	✔	✔
ENGINEERED GROWTH MEDIA	✔	✔	✔	✔	✔	✔
SEDUM PLUGS	✔	✔	✔	✔	✔	✔
SEDUM TILES	✔	✔	✔	✔	✔	✔
SEDUM MATS	✔	✔	✔	✔	✔	✔
ALUMINUM DRAIN BOX	✔	✔	✔	✔	✔	✔
ALUMINUM EDGE	✔	✔	✔	✔	✔	✔
EASY BEND ALUMINUM EDGE	✔	✔	✔	✔	✔	✔
STAINED GLASS STONE		✔	✔		✔	✔
HYDROPACK PRE-GROWN TRAY	✔	✔	✔	✔	✔	✔
GREENGRID PRE-GROWN TRAY	✔	✔	✔	✔	✔	✔
HANOVER PREST PAVERS		✔	✔	✔	✔	✔
HANOVER GUARDIAN PAVERS		✔	✔		✔	✔
HANOVER PEDESTAL PAVERS		✔	✔		✔	✔
HANOVER HIGH TAB PEDESTALS		✔	✔		✔	✔
HANOVER EPDM PEDESTALS		✔	✔		✔	✔
HANOVER COMPENSATOR		✔	✔		✔	✔
HANOVER PORCELAIN PAVERS		✔	✔	✔	✔	✔
SUNNY BROOK CONCRETE PAVERS		✔	✔	✔	✔	✔
WAUSAU CONCRETE PAVERS		✔	✔		✔	✔
WESTILE CONCRETE PAVERS		✔	✔		✔	✔
MRP ADJUSTABLE SUPPORTS		✔	✔		✔	✔
RUBBER PAVERS		✔	✔		✔	✔
RUBBER PAVER EDGE RESTRAINT		✔	✔		✔	✔
RUBBER PAVER EASY-BEND EDGE RESTRAINT		✔	✔		✔	✔

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FOR GREEN BUILDING RATING SYSTEMS



	Site			Water Efficiency		Materials	Indoor Environment	
	Construction Impacts - Mitigating Heat Island Effect Up to 14 PTS	Stormwater Management Up to 21 PTS	Landscaping UP TO 21 PTS	Alternate Sources of Water UP to 28 PTS	Irrigation UP to 27 PTS	Sustainable Materials Attributes Up to 10 PTS	Thermal Comfort - Thermal Comfort Design Up to 9 PTS	Acoustic Comfort - Airborne Noise Isolation Up to 6 PTS
VEGETATED ROOF SYSTEMS								
CCW 300HV PROTECTION COURSE	✓	✓	✓	✗	✗		✗	✗
CCW 200V PROTECTION COURSE	✓	✓	✓	✗	✗		✗	✗
ROOT BARRIER	✓	✓	✓	✗	✗		✗	✗
MIRADRAIN G4	✓	✓	✓	✗	✗	✓	✗	✗
MIRADRAIN 9800	✓	✓	✓	✗	✗	✓	✗	✗
MIRADRAIN IDB	✓	✓	✓	✗	✗	✓	✗	✗
HYDRO-BLANKET D13	✓	✓	✓	✗	✗		✗	✗
ENGINEERED GROWTH MEDIA	✓	✓	✓	✗	✗	✓	✗	✗
SEDUM PLUGS	✓	✓	✓	✗	✗	✓	✗	✗
SEDUM TILES	✓	✓	✓	✗	✗	✓	✗	✗
SEDUM MATS	✓	✓	✓	✗	✗	✓	✗	✗
ALUMINUM DRAIN BOX	✓	✓	✓	✗	✗	✓	✗	✗
ALUMINUM EDGE	✓	✓	✓	✗	✗	✓	✗	✗
EASY BEND ALUMINUM EDGE	✓	✓	✓	✗	✗	✓	✗	✗
STAINED GLASS STONE		✓		✗		✓	✗	✗
HYDROPACK PRE-GROWN TRAY	✓	✓	✓	✗	✗	✓	✗	✗
GREENGRID PRE-GROWN TRAY	✓	✓	✓	✗	✗	✓	✗	✗
HANOVER PREST PAVERS	✓	✓		✗		✓	✗	✗
HANOVER GUARDIAN PAVERS		✓		✗		✓	✗	✗
HANOVER PEDESTAL PAVERS		✓		✗		✓	✗	✗
HANOVER HIGH TAB PEDESTALS		✓		✗		✓	✗	✗
HANOVER EPDM PEDESTALS		✓		✗		✓	✗	✗
HANOVER COMPENSATOR		✓		✗		✓	✗	✗
HANOVER PORCELAIN PAVERS	✓	✓		✗		✓	✗	✗
SUNNY BROOK CONCRETE PAVERS	✓	✓		✗		✓	✗	✗
WAUSAU CONCRETE PAVERS		✓		✗		✓	✗	✗
WESTILE CONCRETE PAVERS		✓		✗		✓	✗	✗
MRP ADJUSTABLE SUPPORTS		✓		✗		✓	✗	✗
RUBBER PAVERS		✓		✗		✓	✗	✗
RUBBER PAVER EDGE RESTRAINT		✓		✗		✓	✗	✗
RUBBER PAVER EASY-BEND EDGE RESTRAINT		✓		✗		✓	✗	✗

Living Building Challenge 4.0 - Product Reference Guide

FOR GREEN BUILDING RATING SYSTEMS



**LIVING
BUILDING
CHALLENGE**

Place Petal	Water Petal	Health + Happiness Petal	Beauty Petal
Urban Agriculture	Net Positive Water	Access To Nature	Education + Inspiration

VEGETATED ROOF SYSTEMS

CCW 300HV PROTECTION COURSE	✓	✓	✓	✓
CCW 200V PROTECTION COURSE	✓	✓	✓	✓
ROOT BARRIER	✓	✓	✓	✓
MIRADRAIN G4	✓	✓	✓	✓
MIRADRAIN 9800	✓	✓	✓	✓
MIRADRAIN IDB	✓	✓	✓	✓
HYDRO-BLANKET D13	✓	✓	✓	✓
ENGINEERED GROWTH MEDIA	✓	✓	✓	✓
SEDUM PLUGS		✓	✓	✓
SEDUM TILES		✓	✓	✓
SEDUM MATS		✓	✓	✓
ALUMINUM DRAIN BOX	✓	✓	✓	✓
ALUMINUM EDGE	✓	✓	✓	✓
EASY BEND ALUMINUM EDGE	✓	✓	✓	✓
STAINED GLASS STONE		✓	✓	✓
HYDROPACK PRE-GROWN TRAY		✓	✓	✓
GREENGRID PRE-GROWN TRAY		✓	✓	✓
HANOVER PREST PAVERS	✓		✓	✓
HANOVER GUARDIAN PAVERS	✓		✓	✓
HANOVER PEDESTAL PAVERS	✓		✓	✓
HANOVER HIGH TAB PEDESTALS	✓		✓	✓
HANOVER EPDM PEDESTALS	✓		✓	✓
HANOVER COMPENSATOR	✓		✓	✓
HANOVER PORCELAIN PAVERS	✓		✓	✓
SUNNY BROOK CONCRETE PAVERS	✓		✓	✓
WAUSAU CONCRETE PAVERS	✓		✓	✓
WESTILE CONCRETE PAVERS	✓		✓	✓
MRP ADJUSTABLE SUPPORTS	✓		✓	✓
RUBBER PAVERS	✓		✓	✓
RUBBER PAVER EDGE RESTRAINT	✓		✓	✓
RUBBER PAVER EASY-BEND EDGE RESTRAINT	✓		✓	✓

AIR & VAPOR BARRIERS

Air barriers stop the uncontrolled flow of air through a building's exterior envelope. Airflow is caused by air moving from high pressure to low pressure. This moving air carries both heat and moisture. It can carry 50 to 100 times more moisture than diffusion alone. This is a huge consideration in a climate zone with high humidity.

Energy and Atmosphere Section

Prerequisite credit under Minimum Energy Performance = Updated to 2010 ASHRAE 90.1 Standard.

This means... All new commercial and institutional LEED-certified construction will require an air barrier.

Air and Vapor Barriers are Proven to:



Effectively Block Air Leakage



Decrease Energy Costs



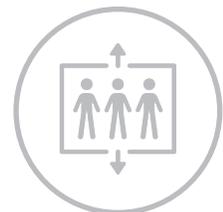
Reduce Condensation through the Building Envelope



Provide a Seamless Moisture Barrier



Protect Rough Openings From Weather Damage During and After Construction



Improve Energy Efficiency and Comfort for Building Occupants



VapAirSeal 725TR Air and Vapor Barrier/Temporary Roof



A 40-mil composite consisting of 35 mils of self-adhering rubberized asphalt laminated to a 5-mil woven polypropylene film. Used as an air and vapor barrier/temporary roof, its one-piece poly release liner prevents the material from bonding to itself in the roll and is easily removed for installation. May be used as a temporary roof for up to 120 days. Common substrates include concrete, DensDeck®, and SECUROCK®.

LEED Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Terrell, TX
Solar Reflectance Index (SRI)	N/A

VapAirSeal MD Metal Deck Air and Vapor Barrier



VapAir Seal MD features a tough, puncture-resistant, aluminum-coated poly film laminated to 11-13 mils of SBS adhesive, which provides a strong bond to the metal deck. The thin layer of adhesive allows VapAir Seal MD to be applied directly to the metal deck without a thermal barrier (such as a gypsum board) and still meet FM 4470 Class 1 and UL 1256 internal fire ratings.

LEED Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Germany
Solar Reflectance Index (SRI)	N/A

VapAirSeal Flashing Foam SPF Flashing



VapAir Seal Flashing Foam is a low-pressure foam system that utilizes a non-flammable blowing agent. VapAir Seal Flashing Foam has been specifically formulated for flame retardancy and conforms to the requirements of ASTM E84 as a “Class 2(B)” system (flame spread of 75 or less, smoke development of 450 or less). The foam is used to seal penetrations and helps to lower heating and cooling costs by reducing air leakage.

LEED Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Akron, Ohio
Solar Reflectance Index (SRI)	N/A

SureMB 90 Base Ply



Can be used in multi-ply roofing systems as an air and vapor barrier, or as a temporary roof for up to 60 days. This product is fiberglass-reinforced and meets or exceeds requirements of ASTM 6363 Type 1. When used as an air and vapor barrier, suitable substrates include concrete (primer required), DensDeck Prime, and SECUROCK.

LEED Information

Pre-consumer Recycled Content	24.4%
Manufacturing Location	Forth Worth, TX

SureMB 90TG Base Ply and SureMB 120TG Base Ply



Premium smooth-surfaced SBS torch-applied membranes reinforced with fiberglass mat. Can be used as a base ply in multi-ply systems, as an air and vapor barrier, or as a temporary roof for up to 60 days. Excellent for low-temperature applications when the use of peel-and-stick membranes may not be possible. Ideal substrates include primed concrete and primed SECUROCK.

LEED Information

Pre-consumer Recycled Content	3.2%
Post-consumer Recycled Content	16.7%
Manufacturing Location	Forth Worth, TX
Solar Reflectance Index (SRI)	N/A

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EA - Energy and Atmosphere	MR - Materials and Resources		EQ - Indoor Environmental Quality
Optimize Energy Performance Option 1 & 2 Up to 20 PTS	Building Product Disclosure and Optimization – Sourcing of Raw Materials Option 1 & Option 2 Up to 2 PTS	PBT Source Reduction - Lead, Cadmium And Copper 1 PT	Low-Emitting Materials Up to 3 PTS

AIR & VAPOR BARRIERS				
VAPAIR SEAL 725				
VAPAIR SEAL MD				
VAPAIR SEAL FLASHING FOAM				
SUREMB 90 BASE				
SUREMB 90TG BASE				
SUREMB 120TG				

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FOR GREEN BUILDING RATING SYSTEMS



Materials	Indoor Environment
Sustainable Materials Attributes Up to 10 PTS	Thermal Comfort - Thermal Comfort Design Up to 9 PTS

AIR & VAPOR BARRIERS	
VAPAIR SEAL 725	
VAPAIR SEAL MD	
VAPAIR SEAL FLASHING FOAM	
SUREMB 90 BASE	
SUREMB 90TG BASE	
SUREMB 120TG	



X-TENDA COAT™

COATING SYSTEM

Versico's coatings and accessories are all designed to provide excellent performance over a variety of substrates for a high-quality, long-lasting roof system. X-Tenda Coat provides a cost-effective, fluid-applied restoration system that can extend the life of an existing roof. Versico offers two lines of high-performance coatings, acrylic and silicone, that can increase a rooftop's reflectivity and improve its performance, while causing minimal downtime to the building's operations.

Reflectivity

Versico's highly reflective white X-Tenda Coat helps reflect solar energy and is designed to meet CRRC and LEED requirements.

Functionality

X-Tenda Coat helps protect a building's primary roofing system from the elements, enhancing the longevity and performance of virtually any rooftop.

Economical

- Extends the life of the roof system
- Reduces labor and material costs
- Causes minimal disruption/downtime for building occupants and operations
- Does not count as an additional or third roof system for code purposes
- Can avoid capital expenditures for a new roofing system

Sustainable Attributes

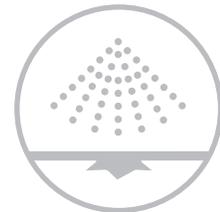
Reducing waste is an important element of sustainability. Utilizing a roof coating extends the life of your existing roof system and dramatically decreases the amount of landfill space used to dispose of construction waste. Extending a roof's lifespan means using fewer resources, which reduces environmental impact. A roof coating is often the most effective and affordable way to help building owners save money and improve sustainability.

Restore Your Roof with Versico Roofing Systems – A roof coating restoration is a non-invasive, low-cost option that can add years to your roof's service life, or even just fix problem areas, with minimal labor.

Coating restoration can extend the life of the roof for 10, 15, or even 20 years, and can also be used to make repairs and prevent leaks.



Extend Roof's Life



Make Repairs



Prevent Leaks and Protects Roof



Non-Invasive

X-TENDA COAT™ CLASSIC

ACRYLIC COATING



Features and Benefits

A 100% acrylic, single-component, water-based, premium quality elastomeric coating.

- Easy to apply with conventional or airless spray equipment, roller, or brush
- Title 24 compliant
- High solar reflectivity can contribute to energy savings
- Restoration System and Material Warranties available
- Available in: White, Light Gray, Dark Gray, and Tan
- High Tensile and Quick Set formulations available

LEED Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Phoenix, AZ Winter Haven, FL
Solar Reflectance Index (SRI)	White - 111
Corporate Sustainability Report	No

X-TENDA COAT™ XTRA

SILICONE COATING



Features and Benefits

A single-component, moisture-cured, fluid-applied, low-VOC silicone coating.

- Industry-leading resistance to dirt pick-up and biological growth
- Title 24 compliant
- NSF P151 Rated (white only)
- Restoration System and Material Warranties available
- Low-VOC compliant
- Available in White, Light Gray, Dark Gray, Tan, Santa Fe Tan, and Terra Cotta
- Excellent resistance to ponding water, UV exposure, and natural weathering

LEED Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Winter Haven, FL
Solar Reflectance Index (SRI)	White - 110
Corporate Sustainability Report	No

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LEED LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN					
	SS - Sustainable Sites	EA - Energy and Atmosphere	MR - Materials and Resources	EQ - Indoor Environmental Quality	
	Heat Island Reduction Option 1 & 2 Up to 2 PTS	Optimize Energy Performance Option 1 & 2 Up to 20 PTS	PBT Source Reduction - Lead, Cadmium And Copper 1 PT	Low-Emitting Materials Up to 3 PTS	Thermal Comfort Option 1 & 2 1 PT
ROOF COATINGS					
X-TENDA COAT CLASSIC ACRYLIC COATING					
X-TENDA COAT XTRA SILICONE COATING					

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GREEN GLOBES BUILDING CERTIFICATION	Site	Indoor Environment		
	Construction Impacts - Mitigating Heat Island Effect Up to 14 PTS	Source Control and Measurement of Indoor Pollutants - Volatile Organic Compounds Up to 17 PTS	Thermal Comfort - Thermal Comfort Design Up to 9 PTS	
ROOF COATINGS				
X-TENDA COAT CLASSIC ACRYLIC COATING				
X-TENDA COAT XTRA SILICONE COATING				

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FOR GREEN BUILDING RATING SYSTEMS



Materials Petal

Red List

ROOF COATINGS

X-TENDA COAT CLASSIC
ACRYLIC COATING



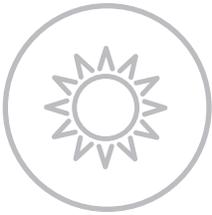
X-TENDA COAT XTRA
SILICONE COATING



SKYLIGHTS

Daylight solutions for sustainable buildings – In buildings all over the world, natural daylight is replacing artificial lighting, improving occupants' sense of well-being, mood, and even productivity. With their ability to let in natural light and reduce energy use, choosing skylights for your building project is a great step toward sustainability.

Benefits of Daylighting



Save energy used for artificial lighting during daylight hours



Reduce energy bills



Improve occupants' comfort and productivity



Increase your building's value and aesthetic appeal

Better Access to Daylight Has Been Linked to:

- Improved sense of vitality
- Decreased daytime sleepiness
- Reduced stress and anxiety
- Improved productivity



SUNPATH™

Tubular Skylight



The SunPath Tubular Daylighting Device (TDD) light tube utilizes Miro-Silver to create pure white light with no color shift during transmission, even after multiple reflections. At nearly 98% total light reflectivity, these Miro-Silver light tubes allow daylight to illuminate interior spaces longer, and brighter, than any other TDD.

Benefits of Miro-Silver Light Tubes

- Solid reflective material
- Will not delaminate, yellow, crack, or peel due to prolonged UV exposure
- 25-year material warranty

LEED Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%

SUNWELD™ PLUS

Conventional Skylight BY **VELUX®** Commercial



SunWeld Plus Dynamic Dome Skylight by VELUX® has a revolutionary dome design with superior daylight-capturing capabilities. The VELUX Dynamic Dome skylight is architecturally elegant, strong, and can deliver more daylight by capturing low-angle sunlight in the early morning and late afternoon.

Light Harvesting

- Dome shape engineered to maximize low-angle sunlight
- Taller domes provide more surface area to harvest more daylight
- Smooth, clear outer dome delivers 20% more daylight than a skylight with a prismatic outer dome
- White prismatic inner dome option provides 100% light diffusion
- Steeper side walls harvest more daylight than skylights with lower-profile domes

LEED Information

Pre-consumer Recycled Content	36.70%
Post-consumer Recycled Content	0%

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FOR GREEN BUILDING RATING SYSTEMS

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for Full Guide



EA - Energy and Atmosphere	MR - Materials and Resources	EQ - Indoor Environmental Quality		
Optimize Energy Performance Option 1 & 2 Up to 20 PTS	Building Product Disclosure and Optimization – Sourcing of Raw Materials Option 1 & Option 2 Up to 2 PTS	Thermal Comfort Option 1 & 2 1 PT	Daylight Option 1 & 2 Up to 3 PTS	Quality Views Up to 2 PTS

SKYLIGHTS					
SUNPATH					
SUNWELD PLUS					

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for Full Guide



Materials	Indoor Environment
Sustainable Materials Attributes Up to 10 PTS	Thermal Comfort - Thermal Comfort Design Up to 9 PTS

SKYLIGHTS		
SUNPATH		
SUNWELD PLUS		

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FOR GREEN BUILDING RATING SYSTEMS



Health + Happiness Petal

Healthy Interior Environment	Healthy Interior Performance	Access To Nature
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SKYLIGHTS	Healthy Interior Environment	Healthy Interior Performance	Access To Nature
SUNPATH			
SUNWELD PLUS			



INNOVATION FOR
SUSTAINABILITY

One Planet.
Many Solutions.
One Source.



A SINGLE SOURCE FOR SINGLE-PLY ROOFING

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