



ROOFING GREEN BUILDING CREDITS

Sarnafil®

BUILDING TRUST



GO GREEN WITH SIKA SARNAFIL

Sika Sarnafil's credit contributions come from reductions in urban heat island effect, building energy consumption during use phase and reduction of building cooling loads, Sika's Roof Recycling Program for vinyl membranes, transparency documentation, low-emitting materials and others. For more information on how Sika Sarnafil can contribute to green building standards, please visit us at usa.sarnafil.sika.com.

Here is a list of points and credits Sika Sarnafil's products and systems can help you obtain:

LEED (LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN)			
CREDITS	POINTS	INTENT	SIKA SARNAFIL SOLUTIONS
SS			
LEED v2009: SSc5.1 – Site development - protect or restore habitat LEED v4: Site development - protect or restore habitat <i>NC CS S R DC W+D HS H</i>	1 - 2	Preserve and protect habitats from development and construction activity, conserving natural areas and restoring damaged areas.	Install a Sika Sarnafil "vegetated" roof.
LEED v2009: SSc5.2 – Site development - maximize open space LEED v4: Open space <i>NC CS S R DC W+D HS H</i>	1	To utilize exterior open space to encourage interaction with the environment, social interaction, recreation and activities.	Install a Sika Sarnafil "vegetated" roof.
LEED v2009: SSc6.1 – Stormwater design - quantity control LEED v4: Rainwater management <i>NC CS S R DC W+D HS H</i>	1 - 3	To reduce runoff volume and improve water quality by replicating the natural hydrology and water balance of the site.	Install a Sika Sarnafil "vegetated" roof.
LEED v2009: SSc7.1 – Heat island effect - non-roof LEED v2009: SSc7.2 – Heat island effect - roof LEED v4: Heat island reduction <i>NC CS S R DC W+D HS H</i>	1 - 2	To minimize effects on microclimates and human and wildlife habitats by reducing heat islands.	Install a Sika Sarnafil EnergySmart Roof or "vegetated" roof on the roof and/or cover parking structures with an EnergySmart roof or "vegetated" roof.
LEED v2009: SSc9.1 – Connection to the natural world - places of respite LEED v4: Places of respite <i>H</i>	1	To provide patients, staff, and visitors access to the natural environment on the healthcare campus.	Install a Sika Sarnafil "vegetated" roof.
EA			
LEED v2009: EAc2 – On-site renewable energy LEED v4: Renewable energy production <i>NC CS S R DC W+D HS</i>	1 - 3	To reduce the use of fossil fuel energy by increasing self-supply of renewable energy.	Install a Sika Sarnafil Solar Roof.

CREDITS	POINTS	INTENT	SIKA SARNAFIL SOLUTIONS
MR			
LEED v2009: MRpc84 – v4 MR credit category for v2009 projects LEED v4: Building product disclosure and optimization - environmental product declarations <i>NC CS S R DC W+D HS H</i>	1 - 2	To encourage the use of products and materials for which life-cycle information is available.	Sika Sarnafil has multiple product-specific, Type III Environmental Product Declarations available (Cradle-to-Gate and Cradle-to-Grave).
LEED v2009: MRpc112 – Certified Multi-attribute Products and Materials LEED v4: Pilot credit – Certified Multi-attribute Products and Materials <i>NC CS S R DC W+D HS H</i>	1	To encourage the use of products and materials for which life-cycle information is available.	Sika Sarnafil has membranes certified to NSF/ANSI 347 - 2012a Sustainability Assessment for Single Ply Roofing Membranes.
LEED v2009: MRc4 – Recycled content LEED v4: Building product disclosure and optimization - sourcing of raw materials <i>NC CS S R DC W+D HS H</i>	1 - 2	To encourage the use of products and materials that have environmentally, economically, and socially preferable life cycle impacts.	Most Sika Sarnafil membrane products contain an average of 10% recycled content.
LEED v2009: MRpc84 – v4 MR credit category for v2009 projects LEED v4: Building product disclosure and optimization - material ingredients <i>NC CS S R DC W+D HS H</i>	1 - 2	To encourage the use of products and materials with reporting material health information.	Sika Sarnafil roofing systems do not contain any substances that meet REACH criteria for substances of very high concern and therefore can contribute to the International Alternative Compliance Path option within this credit.
LEED v2009: MRc2 – Construction waste management LEED v4: Construction and demolition waste management <i>NC CS S R DC W+D HS H</i>	1 - 2	To reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials.	Sika Sarnafil's Roof Recycling Program takes back old PVC membranes and PVC scrap and recycles them back into new roofing and waterproofing membrane.
EQ			
LEED v2009: EQp3 – Minimum acoustical performance LEED v4: Minimum acoustic performance <i>S</i>	Prereq	To provide classrooms that facilitate teacher-to-student and student-to-student communication through effective acoustic design.	Sika Sarnafil roofing systems with Roxul stone wool insulation will contribute to this credit.
LEED v2009: EQc4.1 – Low-emitting materials - adhesives and sealants LEED v4: Low-emitting materials <i>S H</i>	1 - 3	To reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.	Use one of Sika Sarnafil's low- or no-VOC emitting roofing adhesives.

NC = New Construction CS = Core and Shell S = Schools R = Retail
 HS = Hospitality H = Healthcare W+D = Warehouse and Distribution Centers
 DC = Data Centers

GREEN GLOBES FOR NEW CONSTRUCTION (VERSION 1.45)

CRITERIA	POINTS	DESCRIPTION	SIKA SARNAFIL SOLUTIONS
S			
Site 3.2.2.4: Heat Island Effect	2 - 6	To designate area of the roof to vegetation and/or materials with a high Solar Reflectance Index (SRI).	Install a Sika Sarnafil EnergySmart Roof or "vegetated" roof.
Site 3.2.3: Stormwater Management	5 - 15	To meet or exceed meets municipal and/or local watershed flood and erosion control targets.	Install a Sika Sarnafil "vegetated" roof.
EN			
Energy 3.3.2.2: Power Demand Reduction	4 - 8	To reduce the modeled building's monthly power demand factor.	Install a Sika Sarnafil EnergySmart Roof.
Energy 3.3.9: Renewable Sources of Energy	9 - 23	To integrate renewable energy where possible.	A Sika Sarnafil Solar Roof contributes to the possible 23 points through the use of renewable and clean sources of energy, generated on-site.
MR			
Materials and Resources 3.5.1.2: Path B: Prescriptive Path for Building Core and Shell	10 - 20	To integrate products with verified life cycle assessments or third-party verification.	Sika Sarnafil has multiple product-specific, Type III Environmental Product Declarations available (Cradle-to-Grave and Cradle-to-Grave).
Materials and Resources 3.5.4.1: Construction Waste	2 - 6	To increase the percentage of construction waste diverted from landfill.	Sika Sarnafil's Roof Recycling Program takes back old PVC membranes and PVC scrap and recycles them back into new roofing and waterproofing membrane.
Materials and Resources 3.5.7.1: Roofing Membrane Assemblies and Systems	1.5 - 3	To ensure the intended installation of roofing membrane assemblies and systems.	Install a Sika Sarnafil roof system.
Materials and Resources 3.5.8.2: Below Grade Wall Slabs and Above Grade Horizontal Assemblies	0.5 - 2	To meet or exceed meets municipal and/or local watershed flood and erosion control targets.	Install a Sika Sarnafil waterproofing system.
Materials and Resources 3.5.10: Envelope - Barriers	0.5 - 4	To ensure the intended installation of a continuous air barrier.	Install a Sika Sarnafil air barrier and tie-in to the building's wall barrier.
IE			
Indoor Environment Credit 3.7.2: Source Control and Measurement of Indoor Pollutants	0 - 2.5	To ensure that installed materials comply with prescribed limits of VOCs.	Use one of Sika Sarnafil's low- or no-VOC emitting roofing adhesives.

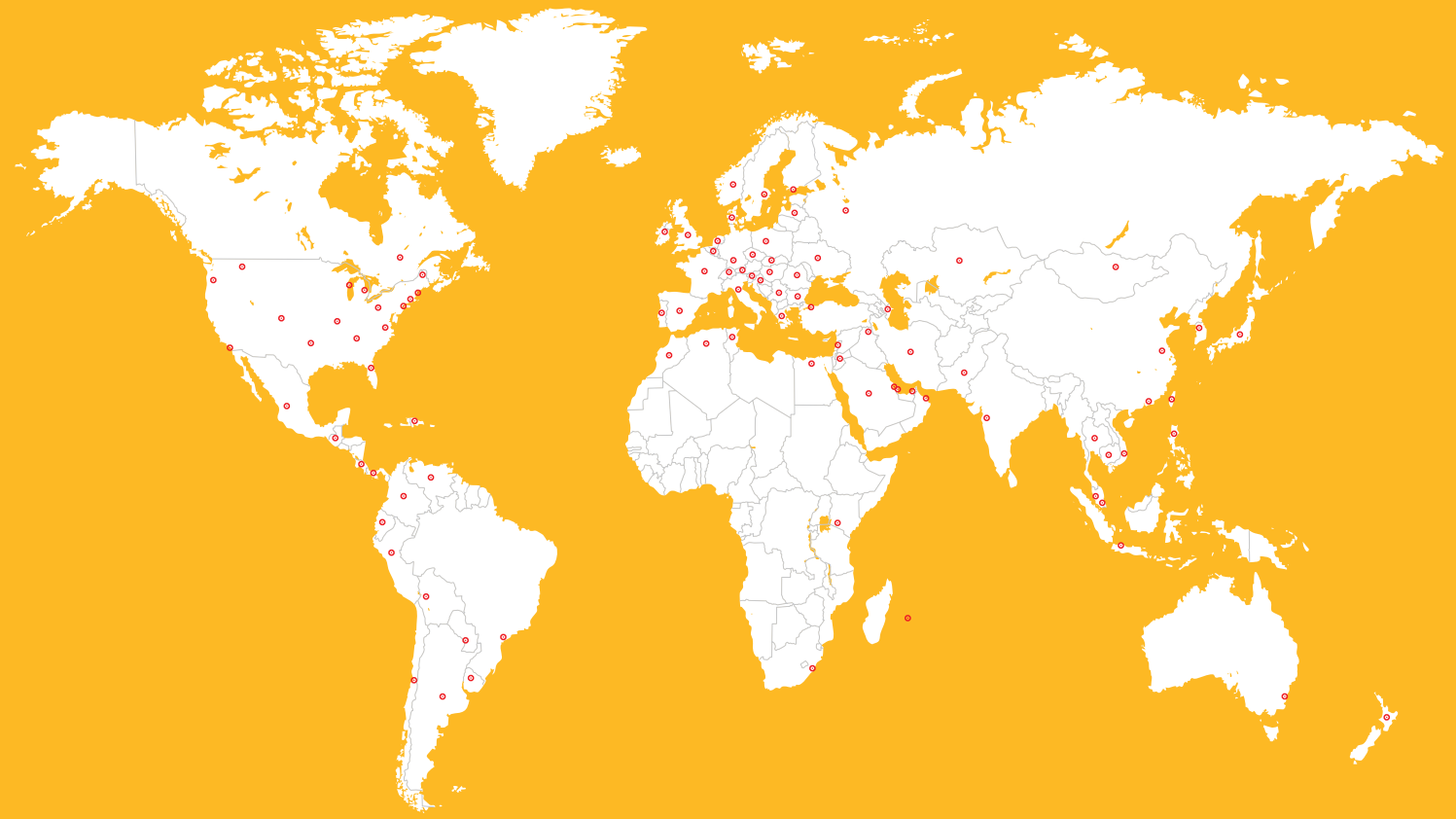
BREEM FOR NEW CONSTRUCTION 2016 (BRE ENVIRONMENTAL ASSESSMENT METHOD)

ISSUE	CREDITS	DESCRIPTION	SIKA SARNAFIL SOLUTIONS
Man 02: Life cycle cost and service life planning (all buildings)	1 - 4	To deliver whole life value by encouraging the use of life cycle costing to promote economic sustainability.	Sika Sarnafil roofing systems have a proven life expectancy of 35 years, contributing the environmental and cost benefits of a durable roof system.
Hea 05: Acoustic performance (all buildings)		To ensure the building's acoustic performance meets the appropriate standards for its purpose.	Sika Sarnafil roofing systems with Roxul stone wool insulation will contribute to this issue.
Hea 08: Private space (residential only)	1	To provide an external space which gives occupants privacy and a sense of wellbeing.	Install a Sika Sarnafil "vegetated" roof.
Mat 01: Life cycle Impacts (all buildings)	1	To encourage the use of life cycle assessment tools and the specification of construction materials with a low environmental impact over the full life cycle of the building.	Sika Sarnafil contributes to these credits with the selection of products covered by our verified Environmental Product Declarations.
MWst 01: Construction waste management (all buildings)	1 - 3	To promote resource efficiency via the effective and appropriate management of construction waste.	Sika Sarnafil's Roof Recycling Program takes back old PVC membranes and PVC scrap and recycles them back into new roofing and waterproofing membrane.

WELL BUILDING STANDARD

FEATURE	FEATURE TYPE	DESCRIPTION	SIKA SARNAFIL SOLUTIONS
Feature 74 (Comfort): Exterior Noise Intrusion Core and Shell New and Existing Interiors (Optimization) New and Existing Buildings	Prerequisite	To reduce acoustic disruptions by limiting external noise intrusion.	Sika Sarnafil roofing systems with Roxul stone wool insulation will contribute to this feature.
Feature 100 (Mind): Biophilia II - Quantitative Core and Shell New and Existing Interiors New and Existing Buildings	Optimization	To support occupant emotional and psychological well-being by including the natural environment in design.	Install a Sika Sarnafil "vegetated" roof where building occupants have access.

GLOBAL BUT LOCAL PARTNERSHIP



WHO WE ARE

The commercial roofing industry has relied on thermoplastic single-ply membranes from Sika for more than 50 years to achieve sustainable roofing and waterproofing solutions.

Sika is a globally active specialty chemicals company. Sika supplies the building and construction industry as well as manufacturing industries (automotive, bus, truck, rail, solar and wind power plants, facades). Sika is a leader in processing materials used in sealing, bonding, damping, reinforcing and protecting loadbearing structures. Sika's product lines feature highquality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.

Our most current General Sales Conditions shall apply.

Please consult the Product Data Sheet prior to any use and processing.

ISO 14001: 2004-Compliant



ENERGY STAR® for roofing products is only valid in the United States.

ENERGY STAR® is a trademark of the U.S. EPA.

LEED® is a trademark of the U.S. Green Building Council.

Green Globes® is a trademark of the Green Building Initiative.

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