

Sika Corporation Photovoltaic Policy

Introduction

Rooftops are an attractive platform for the installation of solar photovoltaic (PV) systems. Sika Corporation (“Sika”) has for many years been an advocate of roof-mounted PV systems.

When considering the installation of a PV system on your new or existing Sika roof, it is important to remember that the Roofing System’s function is first and foremost to protect the building from the weather elements. PV systems impose numerous additional loads on the roofing system, both during installation and throughout its service life. The expected service life of a new or existing roof system should exceed the projected service life of the PV system, in order to avoid having to remove the solar PV system to replace the roof.

General Recommendations for Rooftop Solar PV

- Roof membranes should be 60 mils thick or greater
- Roof boards (gypsum based or high density/ high compressive strength polyisocyanurate) should be installed directly below to the membrane
- All penetrations should be round shaped
- The PV system should not impede rooftop drainage
- Determine what impact the PV system may have on the roof system’s fire resistance ratings, UL or other code approvals, insurance and other ratings
- Ensure the additional weight of the PV System can be accommodated by the building structure, taking into account all dead and live loads, including wind uplift.
- The roof assembly should be designed to resist the installation construction traffic, the dead load, and the increased maintenance traffic.
- Sarnatred or Sika approved walkways should be installed around all combiner boxes in areas of expected heavy foot traffic.

There are a number of rooftop PV mounting options available on the market. Sika offers a proprietary rooftop solar photovoltaic (PV) system Sika SolaRoof®. Systems from other vendors are available and can be used on your Sika roof.

We encourage you to view our Sika AIA accredited CEU webinar “Solar Roof Systems, The Good, The Bad and The Ugly”, at:

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SIKA CORPORATION • ROOFING

100 Dan Road • Canton, MA 02021

Tel: 781-828-5400 • Fax: 781-828-5365 • usa.sarnafil.sika.com

<https://usa.sika.com/sarnafil/en/resource-center/continuing-education/webinar-library/solar-roof-systems.html>

Sika SolaRoof

Sika SolaRoof incorporates a minimum 60 mil Sarnafil S327 or G410 membrane, an approved cover board¹ and the Sika SolarMount-1 (SSM1) mounting system. SSM1 is hot air welded to the Sarnafil roof assembly. Key benefits include:

- Lightweight: installed without ballast
- Non-penetrating: un-interrupted waterproofing across the field of the roof
- No lateral movement, a major shortcoming of ballasted systems
- Tested and proven in the field
- Competitive on an installed cost basis

Sika provides comprehensive, single source warranties covering both the roof system and the SSM1 assembly, on new and existing² Sarnafil roofs.

Other Rooftop PV Mounting Systems

Rooftop PV systems supplied by other vendors may be used on Sika roofs, subject to the conditions noted below. Sika assumes no warranty responsibility for the PV system, or any impact it may have on the Sarnafil® roof assembly.

The following guidelines and requirements also will help you realize the expected service life of your Sika Roofing System should you elect to proceed with the installation of a PV System, whether with SSM1 or other commercially available solutions.

TECHNICAL REQUIREMENTS

With respect to any PV System installation, including SSM1, whether on a newly-installed or existing roofing system, in order for Sika to consider whether to issue or reinstate a Roofing Warranty, as the case may be, following the completion of the PV System installation:

- For PV Systems using racking systems other than SSM1, Sarnafil G410 or S327 protection sheets of a minimum 60 mil thickness must be used under the solar racking or mounting systems, each ballast pan, rail or other component in contact with the roofing membrane.
- PV panels cannot be adhered to Sika roofing materials
- The PV System shall not impede repairs of the roof membrane throughout the Roofing System's

¹ Dens Deck, Dens Deck Prime, Securock (fastened membrane or adhered felt backed membrane), Securock UltraLight, Sarnatherm Roof Board (A, H, M, R)

² Existing roofs must be five years old or less, unless approved in writing in advance by Sika Corporation.

service life.

- Any PV components hindering leak investigations and/or warranty repairs are to be disconnected and removed at the building owner's expense.
- The building owner will be responsible for mitigating any hazards (including but not limited to electrical) and ensuring that areas to be investigated and/or repaired under warranty are safe.

ACCEPTED RACKING SECUREMENT SYSTEMS:

U-Anchor (U1400-PVC, U2000-PVC, U2400-PVC, U3400-PVC, U-3400s-PVC and U4400-PVC) for use with Sarnafil and Sikaplan roofing systems are eligible for coverage under a Sika System Warranty provided they are supplied by Sika.

Subject to the terms and conditions set forth in the PV Policy, Sika will consider issuing, reinstating or continuing a Roofing Warranty when IronRidge, OMG Powergrip (Standard or Plus), Solar Strap (mechanically fastened systems only) that utilize a target patch made of Sika membrane are installed by the Sika authorized applicator in strict conformance with all Sika's installation guidelines and requirements and in accordance with the terms of this PV Policy.

Please be advised that Sika has not tested, and cannot comment upon the suitability, effectiveness, durability or other aspects of the anchoring components that may be installed or used in connection with a particular roofing/PV project or a particular PV System. Also, Sika cannot, and therefore does not, predict any short- or long-term impacts the installation of anchoring components and other components of a PV System may have upon the Sika Roofing System, particularly after any installed anchoring components or other attachment or solar paneling systems are subjected to a thermal expansion and contraction, wind loads, shear forces and the like. By allowing the anchoring components to be installed on Sika Roofing Systems, Sika in no way intends to, nor does Sika, make any endorsement of any of these anchoring components.

Sika disclaims any and all responsibility for any and all damages, leaks, defects or other problems or claims that may result, either directly or indirectly, from any and all aspects of the use and installation of the anchoring components on, or in connection with, Sika Roofing Systems.

ADMINISTRATIVE REQUIREMENTS

The following steps must be followed and conditions met with respect to a PV System installation in order for Sika to consider issuing or reinstating a Roofing Warranty for the Sika Roofing System on which the PV System will be installed:

- The Owner shall enter into an agreement³ with Sika acknowledging and accepting certain rights,

³ Sika Corporation, Building Owner's Agreement for Photovoltaic (PV) Installations

- duties and obligations with respect to the PV System and the installation thereof.
- Sika must review the type of PV System to be used solely for the purposes of considering whether to issue or reinstate the Roofing Warranty following the installation of the PV System. Installation details and roof plans outlining the layout, as well as information regarding the manufacturer of the racking system used for the PV System and the manufacturer of other components of the Roofing System will also be required. Please allow a minimum of three (3) weeks for review. Sika does not assume any responsibility or liability regarding the PV System or the design thereof by reviewing the system for purposes of determining whether or not to issue or reinstate a Roofing Warranty following the installation of the PV System.
 - An inspection after the PV System is installed (\$500.00) must be conducted. The inspection fee shall be payable in advance prior to issuance or reinstatement of the Roofing Warranty, as the case may be. The inspection will be conducted by a Sika Technical Representative. Any repairs identified in the inspection that would not otherwise be covered under the Sika warranty must be completed at the owner's expense by a Sika Authorized Applicator.
 - A Sika authorized roof applicator must perform all flashing work on all penetrations associated with the installation of the PV Systems and accessories unless specifically agreed to in writing by Sika.
 - Sika reserves the right to view the installation of the PV System at the owner's expense (\$500.00/visit) during the installation process.
 - Issuance or reinstatement of a Roofing Warranty will be at the commercially reasonable discretion of Sika and subject to payment of all fees and completion of all repairs to the Roofing System.
 - Notwithstanding any of the foregoing to the contrary, Sika will waive the inspection fee for Projects in which SSM1 is utilized.
 - **Failure by the owner to execute the Sika Corporation's Building Owner's Agreement for Photovoltaic (PV) Installations, to pay all Sika inspection fees and to make any remedial repairs required by Sika, will nullify the Sika warranty coverage in effect.**