



# ROOFING

2014 PROJECTS OF THE YEAR

Low Slope

Steep Slope

Waterproofing

Sustainability

**Sarnafil**

**BUILDING TRUST**



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## Celebrating the Projects of the Year

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Sika is pleased to once again recognize outstanding achievement in the application of the company's roofing and waterproofing systems with the announcement of the 2014 Projects of the Year winners.

The Projects of the Year competition highlights quality workmanship particularly noteworthy in the areas of design, application, and installation. The company is delighted to be associated with the dozens of projects submitted by its contractor network, and is truly grateful to have such a talented core of applicators representing the company and its products.

This event is competitive each year and this year drew dozens of entries from around the country.

Sika offers congratulations to this year's winners. Compliments to all on a job well done!

On the cover:  
Pomona College's Studio Art Hall's canopy roof is one of the most distinct features of this LEED gold certified building. Learn more about this roof installation performed by Eberhard Roofing & Waterproofing of Van Nuys, CA, on page 13.



## FIRST PLACE

Low Slope  
Category

Rosebud Project, Malibu, CA  
Kazemi & Associates, Los Angeles, CA



The owner of this striking residence, designed by renowned architect Tadao Ando, wanted to make sure that the rooftop was as stunning as the rest of the ultra modern glass/ concrete structure. The original design called for a spray applied polyurethane foam roof, but Kazemi & Associates and the consultant opted for a dual roofing system with an elastomeric membrane adhered to the roof's concrete surface along with tapered insulation and the adhered Sarnafil® 80 mill light grey EnergySmart Roof® membrane.

The low-slope conditions along with a lack of parapet

walls created a unique challenge for the design team. PVC clad metal was installed into kerfed saw cuts at edges of the roof in order to allow a termination point for the PVC membrane. A lightweight pedestal paver panel system was chosen over gravel ballast to be more aesthetically pleasing, requiring the installation of approximately 800 pedestal legs. HVAC duct work was wrapped in PVC membrane, with tapered insulation used to cover duct support frames.

The end result is a showcase roof on this dramatic home.



**SECOND PLACE**  
Low Slope  
Category

Cyril E. King Airport, St. Thomas, US Virgin Islands  
Advanced Roofing Inc., Ft. Lauderdale, FL



Installing a roof at an active airport is always difficult due to requirements regarding debris containment and passenger safety. Add a location where it takes three weeks to receive roofing materials and an intense rainy season, and you have the challenges Advanced Roofing Inc. (ARI) faced when reroofing the Cyril E. King Airport in St. Thomas.

The existing 119,100 sq. ft. roof and tapered insulation were removed down to the metal deck. A cold process lap cement was sprayed on the deck, followed by a felt underlayment, tapered insulation, gypsum board,

and the Sarnafil® EnergySmart Roof® membrane. This membrane was adhered combined with mechanically attached battens in the seams.

ARI also performed repairs to the intergraded gutter at the standing seam metal roof, which required cutting back the metal panels and replacing the insulation. New Sarnafil S327 was installed and turned under the standing seam with a slip flashing.

In addition to a rainier-than normal season, ARI also had to deal with stringent background checks, and limited space to store materials.





**THIRD PLACE**  
Low Slope  
Category

Park Place Apartments, Irvine, CA  
Red Pointe Roofing, Orange, CA



The Park Place apartments in Irvine, California were built to offer professionals an elegant urban living community. Great care was taken in selecting materials for the buildings and surrounding amenities, including the roofing system. The Irvine Company worked closely with Red Pointe Roofing to develop a roof specification that would meet their high standards. After much research it was decided to install Sarnafil® light grey 60 mil EnergySmart Roof® membrane on the 250,000 square feet of roofing.

The equipment wells were a major design challenge, resulting in an assembly of gypsum board, ground screen, Sarnafil

G476 waterproofing membrane, and drainage protection installed over the entire horizontal area.

Midway through construction the owner asked the design team to assist in developing a permanent fall protection system for all buildings to mitigate potential liability. After a thorough evaluation, anchored safety posts with 9,000 lb rated double cable runs were selected.

The Irvine Company was so impressed with the workmanship of Red Pointe Roofing and the quality of the Sarnafil system that they are using the same specification for several projects under construction.



**FIRST PLACE**  
Steep Slope  
Category

Wogaman 5-8 School, Dayton, OH  
Harold J. Becker Company, Inc., Dayton, OH



When the Wogaman School decided to replace its shingle roof, the consultants recommended the Sarnafil® Décor Roof System in lead gray on this very visible roof. Harold J. Becker Company, Inc. began the installation of the 850,000 sq. ft. roof in mid-August, 2013, but had to suspend the work in December, due to winter weather. In March the project started again and double crews worked until completion in October. The project required approximately 17,500 man hours.

After existing roof materials were removed, fire-rated blocking was anchored at the perimeter, and the deck was covered with

plastic sheeting and tape. Two layers of Sarnatherm and a gypsum board were installed, followed by the membrane and the Décor ribs 18" on center.

At predetermined locations, the metal deck received flute filler and three layers of FR 2x10s were installed for the Alpine Snow Guard System base plates.

The tear-off of the old roof included removal of approximately 61,000 fasteners from the original nail board plus a couple thousand more on the reinstallation.

The school now boasts an aesthetically pleasing and long-lasting roof.



**SECOND PLACE**  
Steep Slope  
Category

Queenship of Mary Roman Catholic Church, Plainsboro, NJ  
NU-TEK Roof Systems Inc., Lake Hepatcong, NJ



It looked like the roof on the Queenship of Mary Church didn't have a prayer. It had experienced the failure of two asphalt shingle roofs in 25 years, due to its relatively low slope and poorly executed flashing details. Both the architect and the church demanded a system that was not only aesthetically pleasing but would also offer longevity. The Sarnafil® Décor Roof System fit both requirements.

NU-TEK Roof Systems started by removing the existing shingles and underlayment of the 9,000 sq. ft. roof. The roof deck is tongue and groove which

also serves as the Church ceiling. As gypsum board was being installed it was discovered that all electrical conduit for the Church's lighting was installed over the roof deck and essentially buried in the nailable insulation board. A great deal of time was spent mapping out the conduit to avoid penetrating it while attaching the underlayment.

The complex shape of the building - with multiple hips and valleys -- made the sheet and rib layout an exacting process. Now the Church has a long-lasting roof that looks divine.





**THIRD PLACE**  
Steep Slope  
Category

American Museum of Agriculture, Lubbock, TX  
Merit Roofing Systems, Inc., Richardson, TX



It was serendipity that put a Sarnafil® Décor Roof System on the new addition to the American Museum of Agriculture.

Merit Roofing Systems was exhibiting at a trade show in Austin, and happened to be near the booths of a general contractor and architect. Both were working on the Museum addition, and when given a demonstration of the Décor's advantages over metal roofs, both had an "aha" moment.

The design highlights of the new addition are two faux grain silos, and the client insisted that the traditional architectural details be respected, giving

the buildings an air of authenticity, even though conventional materials were not being used.

The cylindrical design of the structure posed its own unique challenges. Ribs had to be spaced perfectly and also placed to conceal the seams in the membrane. Merit Roofing custom-cut all of the membrane, insulation and gypsum board into tapered wedges that were spaced uniformly around the cones. The result was an aesthetically and architecturally accurate rendition of the traditional grain silos with all the benefits of modern technology.





**FIRST PLACE**  
Waterproofing  
Category



Karmanos Family Birthing Center, Royal Oak, MI  
Lutz Roofing Company, Inc., Shelby Township, MI

Creation of the Karmanos Family Birth Center involved renovating part of Beaumont Hospital into a luxurious 12-room family birthing center. These rooms overlook two roofs of the hospital, which were to be transformed into walkable garden roofs, where the birthing parents and their families could enjoy the "Miracle of Childbirth."

Lutz Roofing installed the Sarnafil® adhered EnergySmart Roof® in tan on the 16,000 sq. ft. roofs, keeping in mind that the areas below were in use during the entire project. Roofs had to remain watertight throughout the

process, and the safety of the hospital's occupants taken into consideration.

Staging the project wasn't easy. The crane was staged on a loading dock, and all other materials were stored one half-mile away in a parking lot. The roofs being renovated were "landlocked," which meant the material and debris had to be craned up to a higher roof and then lowered by a hydraulic hoist to the roof area.

Installing the plants, pavers and other decorative design elements was also challenging. However the results are roofs that let new mothers enjoy Mother Nature.



**SECOND PLACE**  
Waterproofing  
Category

USC Darla Moore School of Business, Columbia, SC  
AAR Roofing of North Carolina, Inc., Kernersville, NC



The new Darla Moore School of Business at the University of South Carolina was designed to make a bold statement and be energy efficient. AAR Roofing worked with the design team to select a roofing system that would be weatherproof; could work with roofing implements like skylights; and be compatible with a vector mapping grid, a vegetation system, and huge planters and pavers. The system selected was the Sarnafil® EnergySmart Roof®.

AAR faced many challenges during the installation of the 80,000 sq. ft. roof, including matching waterproof tie-ins to a variety of

construction materials and making sure the roof and planters were waterproof to avoid damaging the high tech equipment under them.

They also installed 50,000 sq. ft. of pavers. These pavers were on varying slopes because of the tapered ISO systems, and also had to follow the advanced curves designed by the architects. AAR located pedestals to achieve a level walking surface for the students and faculty.

The final phase was orchestrating the live roof sections. Soon the roof will feature beautiful foliage to enhance the building's architectural design.





**THIRD PLACE**  
Waterproofing  
Category

**BENNETT & BROUSSEAU**  
ROOFING INC.  
**Rising Above The Rest**



Northwestern Memorial Hospital – Outpatient Care Pavilion, Chicago, IL  
Bennett & Brosseau Roofing, Inc., Romeoville, IL

The new green roof on the Northwestern Memorial Hospital – Outpatient Care Pavilion posed several challenges to Bennett & Brosseau Roofing, Inc. The roof featured 4,142 sq. feet of the Sarnafil® EnergySmart Roof® on exposed areas of the roof and 38,208 sq. ft. Sarnafil G476 waterproofing membrane under areas with overburden.

The main part of the roof was on the 26th floor, but the elevator only went up to the 25th floor. The roofing crew had to either hoist material up from the 25th floor or take the material up two flights of stairs. This material included the

membranes, SarnaVap vapor retarder, two layers of insulation, gypsum board, a Vector Mapping Grid leak detection system, 9,800 square feet of pavers, and a vegetated sedum carpet.

Bennett & Brosseau also worked with Sika technical people to come up with some long-term solutions on some very difficult interface details, and installed a 5,600 square foot event terrace made of pavers on the 18th floor.

Thanks to the professionalism of Bennett & Brosseau, the building now features an attractive and waterproof roof.



**FIRST PLACE**  
Sustainability  
Category

Caña Ferry Boat Terminal, Caña, Puerto Rico  
I.S. Roofing & Construction, Inc., Ponce, Puerto Rico



At its largest point, the Caña Ferry Boat Terminal stretches out 240 by 312 feet, making it the world's largest ferry boat terminal station. It features a large barrel roof and a main entry terminal with a low slope deck to allow for 250 solar panels. Originally a metal roof was considered for the new building, but due to the high winds and continuous salt spray it was ruled out in favor of the Sarnafil® Décor system in patina green. The low slope portion of the roof features the Sarnafil EnergySmart Roof® membrane in white.

The Ports Authority has used the Sarnafil systems on another ferry boat terminal and was pleased with the result. The systems' reflective colors save energy and will aid in obtaining LEED Certification.

I.S. Roofing & Construction, Inc. faced many challenges during the installation of 35,000 sq. ft. roof systems, including preparing the steep slope concrete surface so that imperfections would not telegraph through the membrane, working in high winds, and installing the Décor system to look symmetrical on a barrel roof that wasn't.





**SECOND PLACE**  
Sustainability  
Category

Hewlett-Packard Global Operations Headquarters,  
Palo Alto, CA  
Waterproofing Associates, Mountain View, CA



Hewlett-Packard wanted to install a new solar system on the 300,000 sq. ft. roof of its global headquarters -- and for tax reasons, they wanted the installation done by December 31. However, the solar system, which was expected to last 25-years, was going to be installed over a failing 10-year-old TPO roof, which didn't make economic sense. When asked by HP which roofing membrane was the best for this application, Waterproofing Associates didn't hesitate to recommend the Sarnafil® 60 mil adhered EnergySmart Roof® in tan.

There was a problem, however. The 25-person roofing

crew had only seven weeks to complete the project, and to avoid disrupting the HP employees they could not work between 7:00 a.m. and 6:00 p.m. Waterproofing Associates thus did the project at night, setting up lights around the building and aiming them so they did not reflect light into the adjacent residential neighborhood; and modifying spray equipment and generators with homemade mufflers to reduce noise.

The project was completed on time and with no complaints from HP personnel, the City of Palo Alto, or neighbors.





**THIRD PLACE**  
Sustainability  
Category

Pomona College Studio Art Hall, Claremont, CA  
Eberhard Roofing & Waterproofing, Van Nuys, CA



One of the most distinctive features of the new Pomona College Studio Art Hall is the canopy roof. A built-up roof was originally specified for this 33,500 sq. ft. roof, but the BUR system could not meet the wind uplift requirements or conform to the uniquely shaped roof elements. Eberhard Roofing & Waterproofing worked with the architect to come up with another solution: The Sarnafil® 60 mil EnergySmart Roof® in tan over a lightweight concrete system. This saved the college \$150,000, and also increased the FM wind rating to 1-240 rating, exceeding the college's expectation.

In addition to the unique shape of the roof, Eberhard Roofing also had to contend with skylights and solar panels, which were supported by a ballasted monocrystalline photovoltaic system installed over the membrane.

Another challenge was incorporating fire sprinklers under the ceiling, which were installed using a 16 by 16 grid system. To make sure the lightweight concrete did not drip through the holes, Eberhard Roofing wrapped the roof with Sarnavap.

This LEED gold certified roof is truly a work of art.

# GLOBAL BUT LOCAL PARTNERSHIP



## WHO WE ARE

Sika AG, located in Baar, Switzerland, is a specialty chemicals company with a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing and protecting in the building sector and the motor vehicle industry.

The corporation has subsidiaries in 84 countries, employs 16,000 people worldwide, and has more than 160 manufacturing facilities around the globe.

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BUILDING TRUST

