



# SIKA AT WORK

## VIVINT SMART HOME ARENA

### SALT LAKE CITY, UTAH

RhinoBond® ROOF SYSTEM USING 80 MIL Sarnafil® S 327  
EnergySmart Roof® MEMBRANE IN WHITE

**Sarnafil**

**BUILDING TRUST**



# SARNAFIL RHINO BOND ROOF ON SALT LAKE CITY ARENA A SLAM DUNK

Much like Karl “The Mailman” Malone would deliver a thunderous jam following a perfect pass from John Stockton, Noorda BEC recently delivered a gorgeous new solar roof atop a Sarnafil RhinoBond system to the Vivint Smart Home Arena, home of the NBA’s Utah Jazz.

The 202,385-square-foot roof has 2,700 rooftop solar panels and is one of the largest rooftop solar energy systems among indoor sports venues in the United States. The solar roof is expected to produce enough energy to equal the energy generated by 1 million pounds of coal. But as is true in many situations, creating such a winning result was a team effort. In this case, the team consisted of “a great client, an impressive roofing contractor and a fantastic roofing system,” said Jim Rohbock, managing partner for JSR Services, the roof consultant on the winning team.

## ALL-STAR PLAYERS

The roofing system drafted for the arena was the Sarnafil RhinoBond Roof System. The RhinoBond system uses Sarnafil’s proven PVC roof membrane, which is attached using RhinoBond’s advanced induction welding technology. RhinoBond secures the membrane directly to specially coated plates that are used to secure the insulation to the deck, all without penetrating the roofing membrane. The result is a roofing system with improved wind performance that requires 25 to 50 percent fewer fasteners and plates.

In addition, since the fastening points are spread out across the roof deck in a grid pattern rather than concentrated in the seams of the

membrane, the wind uplift load is distributed more evenly. The result is less point loading on each fastener, enabling the system to achieve higher wind ratings with fewer fasteners.

“We’ve had very good success with the Sarnafil membrane and never have any callbacks on it,” remarked Steve McArthur, president of Noorda BEC of Salt Lake City, the roofing contractors on the project. “RhinoBond is a very good system for wind uplift resistance and is also very easy and fast to install.”

“We’ve used Sarnafil RhinoBond on a number of projects,” Rohbock said. “The system offers reliability, fast installation and money savings. It’s the best of both worlds.”

## THE LAY-UP

Noorda BEC faced many challenges during the installation, the first being the location of the project. The Vivint Smart Home Arena is located in downtown Salt Lake City between train tracks, an outdoor shopping mall spanning several acres, a parking garage and a busy main street. “There was very little staging area,” McArthur explained. “We had to work closely with the building owner to coordinate the delivery and removal of materials with a 100-ton crane on the ground and a 50-ton crane on the upper deck. Some days the wind was so strong we couldn’t load materials.”

Security and scheduling were other concerns. “We had to get clearance for the job and sometimes had to have an escort,” McArthur said. “We

## PROJECT

Vivint Smart Home Arena  
Salt Lake City, Utah

## OWNER

Larry H. Miller Arena Corporation

## ROOFING CONTRACTOR

Noorda BEC, Inc.  
Salt Lake City, Utah

## ROOF CONSULTANT

JSR Services  
Midvale, Utah

## ROOFING SYSTEM

RhinoBond Roof System  
using 80 mil Sarnafil S 327  
EnergySmart Roof membrane in White

## PROJECT SIZE

202,385 square feet

## COMPLETED

October 2016





also had to work around all of the events that were being held at the arena. There were times when we couldn't make any noise and had to quiet down or even stop working."

#### **THE ASSIST**

Fortunately, the Sarnafil RhinoBond Roof System helped in many of these situations. Noorda BEC left the existing insulation but tore off the existing membrane and the cover board. They then put down another layer of insulation and the Sarnafil membrane using the RhinoBond induction welding technology. Noorda BEC also had to install OMG Roofing Products' PowerGrip solar roof mount system on the roof, which the solar installers used to attach the solar panels to the roof.

"Installation with RhinoBond is about 20 percent faster than installing a fully adhered system," stated Rohbock. "On this project, they were able to increase production from 3,500 feet a day to 5,000-8,000 and all the way up to 15,000 feet per day, which meant they were able to put down a lot of roofing between the different events taking place at the arena."

"RhinoBond lets you lay out a large amount of roof and fasten it in place," McArthur said. "This means you can take off a section of the old roof and lay down the new roof very easily."

There were a few questions that arose regarding the attachment of the Sarnafil membrane to the parapet wall, but fortunately a Sika Roofing representative was always available to provide assistance. "The Sika inspector was awesome," McArthur remarked. "He was on-site twice a week, and if we had an issue he would bend over backwards to help us."

Noorda BEC's professionalism also earned praise. "The work of Noorda was very professional and very efficient, as was that of JSR Services," said Jamie Galileo, executive vice president of facility operations for the Utah Jazz. "This job was very challenging as we had events during the project and could not shut down the arena. Compounding the complexity was the integration of the solar system. Noorda BEC handled both situations with professionalism."

"Noorda did a really good job and they worked very well with their client," Rohbock commented. "Their quality is extremely good."

It was this quality that earned Noorda BEC second place in the Sustainability Category of Sika Sarnafil's 2016 Project of the Year competition.

#### **SWISH!**

Today, everyone is a fan of the new roof. "The roof looks beautiful," Rohbock said. "This was a unique and well-orchestrated project without many hiccups thanks to teamwork and the Sarnafil RhinoBond system."

"The roof is performing very well so far, even during the winter," Galileo added.

When the final buzzer sounded on the project, Noorda had delivered a stunning new sustainable roof that even The Mailman would be proud of – and this time, the assist came from Sika Roofing.



# VIVINT SMART HOME ARENA



## 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 load-bearing structures. Sika's product lines feature high-quality 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



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