



Project Profile

Project

Tiger Woods Learning Center
Anaheim, CA

Owner

Tiger Woods Foundation

Architect

Langdon Wilson Architecture
Planning Interiors
Irvine, CA

General Contractor

Snyder Langston
Irvine, CA

Roofing Contractor

DRI Commercial
Irvine, CA

Roofing System

Sarnafast Mechanically Attached
System, using white, 60 mil S327
EnergySmart Roof® membrane

Project Size

18,600 square feet

Completed

August 2005

Tiger Woods Learning Center Gives Sika Sarnafil A Winning Score on Energy Savings

Situated right next to the course on which Tiger Woods learned to play golf, the Tiger Woods Learning Center in Anaheim, California is the realization of Woods' dream to make a difference in people's lives. At the Center's dedication on February 10, 2006, former President Bill Clinton and California's First Lady Maria Shriver were among the attendees.

Woods was quoted by the Associated Press as saying, "This is by far the greatest thing that has ever happened to me ... this is bigger than anything I've ever done on the golf course, because we will be able to shape lives."

The \$25 million Learning Center will give students in grades 4-12 a place where they can learn about the role education plays in their futures, and will feature courses that revolve around careers in math, science, technology, and language arts. And yes, there will be golf clinics, as well.

According to Chris McGeady, project manager at Irvine, California-based DRI

Commercial, the Tiger Woods Foundation had two requirements for the new facility: it must be state-of-the-art (the building has 100 computer stations, a recording studio, and a 1,200 square foot multimedia center), and it must be energy-efficient.

EnergySmart Roof Fits the Learning Center's Needs to a "Tee"

One roof that met both criterion was Sika Sarnafil's white, reflective EnergySmart Roof. This single-ply system features the proven Sarnafil thermoplastic membrane, which is polyester-reinforced for high breaking and tearing strength. Its white color reflects the sun's rays, keeping the building cooler and reducing air conditioning costs. In addition, the EnergySmart Roof membrane seams are hot-air welded, which literally fuses the membrane overlaps together to form one continuous, monolithic membrane sheet.

Bob Sutton, Associate Partner at Langdon Wilson Architecture Planning Interiors in Irvine, California explained that Sika Sarnafil's white, reflective roof helped qualify the Tiger Woods Learning Center for a subsidy from Anaheim Public Utilities. "Anaheim Public Utilities agreed to pay

Sika®

Sarnafil®

the additional cost of design features that reduced calculated building energy consumption below the levels established by California's Title 24 standards for energy efficiency" he explained. The white roof reduces air conditioning costs and proved to be eligible for the upgrade subsidy.

There was also the assurance that comes with using a well-established and respected product. "We went with Sarnafil not only because of its energy saving attributes, but also because of a good price to performance ratio, low maintenance costs, and strong recommendations for the quality of the product," Sutton said.

Mike Hazo, project manager at Snyder Langston, the general contractor on the project added, "Sarnafil is a great brand name and we've had fabulous experiences with Sika Sarnafil. We recommend them often because they really make a great product." He added, "Installing roofs that don't leak only helps me down the road because I don't have to go back to the site to take care of roofing problems."

A Challenging Course of Events

Usually the installation of a roof on a new building is free from surprises, but that wasn't the case with the Tiger Woods Learning Center. The first unexpected obstacle was dealing with the deck slope at the concrete HVAC area.

"Somehow the layout of the concrete came out differently from the original design, and the slope of the concrete pushed water away from the roof drains instead of towards them," McGeedy explained. "DRI worked with the design team to reconfigure the tapered insulation to force the water back to the drains and maintain the original slope of the building. All of this was done without interrupting the construction schedule."

There were several other challenges as well. Since aesthetics was a top priority, McGeedy said DRI had to make sure the single-ply membrane was "laying extremely



The dedication of the Tiger Woods Learning Center in 2006 drew a number of well-known people, including former President Bill Clinton and California First Lady Maria Shriver.

flat." In addition, he said, the equipment area on the roof was "pretty congested" so that area required extensive detailing.

Finally, the roof had to be protected from foot traffic from various parties. "There were several trades working on the roof at certain times, and the Foundation's board did several walk-throughs as well," McGeedy said. "To protect the roof from all the activity in the area we put down a ½ inch DensDeck® Roof Board and plastic and covered it with tarps to protect the roofing system from the other trades." This protective cover was then removed when all work on the roof was completed.

In addition to using the white, EnergySmart Roof reflective membrane, the roof also included thicker insulation with an R-value of 30 to provide additional energy savings. However, the polyisocyanurate insulation that was specified was in high demand during this period and thus was difficult to obtain.

Fortunately, DRI Commercial and Sika Sarnafil were able to work together to use their resources and purchasing power to guarantee the availability of the insulation. "This enabled the owner to exceed the mandatory R-19 insulation requirements needed," McGeedy pointed out.

Sika Sarnafil Aces the Test

The end results seem to have met both of the Tiger Woods Learning Center's needs and more. "It looks very nice and people are very happy with it," Sutton said. McGeedy agreed. "The Sarnafil roof is not only energy-efficient, but it also is as important a part of the building's beauty as the meticulous landscape surrounding the site."

With a state-of-the-art roof protecting it from the elements and offering energy savings, the Tiger Woods Learning Center will be able to focus on helping Woods realize his dream of making the center a place where its students can "explore their dreams and open their doors to new opportunities and potential career paths."

To learn more:

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