



LEFT, WORKERS ROLL OUT SHARKSKIN UNDERLAYMENT AT THE KEESLER AIR FORCE BASE, BILOXI, MISS. BELOW, AN OVERVIEW OF THE HERMAN MEMORIAL HOSPITAL PROJECT IN HOUSTON, TEXAS.



Hurricane Reroofs

Post Hurricane Ike & Katrina Roof Renovations

by Mark Strait, president, Kirsch Building Products

Many things were destroyed when hurricanes Ike and Katrina made landfall in the U.S. and as they drove into the country. The following three buildings/complexes sustained major damage but after the damage was done the roof systems that had failed them had to be replaced.

Herman Memorial Hospital

Herman Memorial Hospital and trauma centers in Houston, Texas, are a complex of different building and roof elevations installed over various types of roof decks, from gypsum to wood, and slopes as steep as 14/12.

Turbulent winds from Hurricane Ike caused extensive damage to the clay tile roofs. The mechanically attached clay tiles were lifted up and

down causing the tiles to chatter. This chattering resulted in many broken and cracked tiles, with some falling into the street and landscape below.

After the storms, the consulting team of Building Exterior Solutions, LLC, Houston, Texas, designed a long term solution with reroof installation that required a specialized roof underlayment, and fastening system to re-attach the two-piece Ludowici clay tile over various roof deck constructions and roof underlayment systems. A decision was also made to replace the broken tiles and damaged roof decks with new plywood decking, a quality peel and stick underlayment, and resetting the original and replacement tiles using Polyfoam, screws, and wire clips. Ori-



nally a 60-mil SBS peel and stick was tried but proved difficult to handle when wrapping the 2x4 battens, lap joints not sticking to itself, walkability when wet, and little UV tolerance. Sharkskin Ultra SA, a high strength, 25 mil synthetic roof underlayment, which incorporates a zero VOC adhesive was introduced and proved easy

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Hurricane Reroofs

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to handle, very walkable, and provided a 12 month UV exposure rating with good adhesion to itself as well as being Polyfoam approved.

Keesler Air Force Base

On August 29, 2005 Keesler Air Force Base, Biloxi Mississippi, sustained a direct hit from Hurricane Katrina, which made its third Gulf Coast landfall as a Category 3 storm

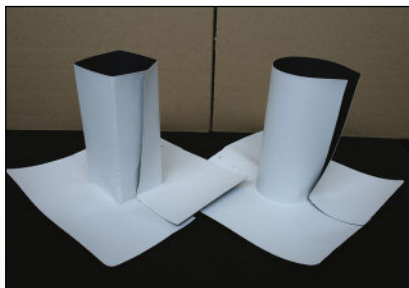
approximately 30 miles (48 km) west. Although non-essential personnel and Hurricane Hunter planes had been evacuated in advance, "drastic damage" was sustained by the base's industrial and housing areas. The storm surge flooded 50% of the base complex including the commissary, Base Exchange, and base housing in



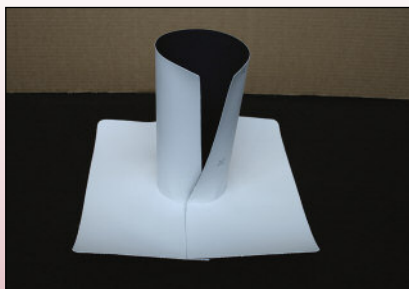
more than 6' of water. By August 31, however, relief flights were landing at the base, and on September 1 the first set of Airmen were evacuated to Sheppard AFB, Texas.

The U.S. Army Corp of Engineers has redesigned the new buildings and roof systems being built and installed to withstand a Category 5 Hurricane in the wake of the damage created by Hurricane Katrina. Metal is being used in the construction of the building

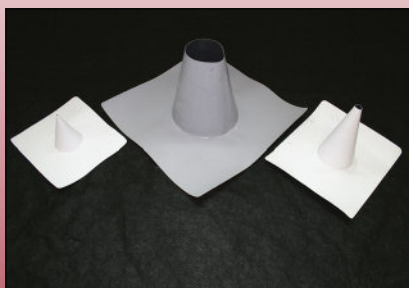
and roof systems, which include high-wind-rated mechanically fastened insulation system and premium roof underlayments. A new Fire Crash Rescue building was built to replace the existing facility damaged by the hurricane. A Fabral standing seam 24-gauge, 16" coverage by 2½" depth panel, Kynar coated with a dark bronze color was chosen along with Sharkskin Ultra SA for its high temp rating, 12-month UV exposure rating, and the labor saving installation features and benefits in using a light weight 48" x 125' / 5 square roll.



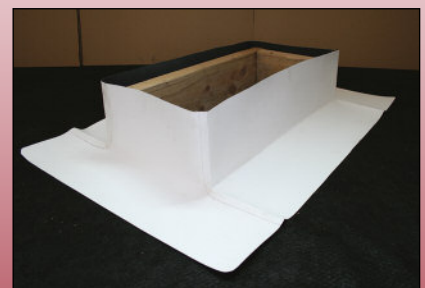
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OUR SAVIOR LUTHERAN CHURCH, HOUSTON, TEXAS.

Our Savior Lutheran Church

The Our Savior Lutheran Church, Houston, Texas, was compromised by Hurricane Ike just eight years after being built when the synthetic slate roof was peeled off and damaged. After the storms, a roofing contractor was hired to install a hurricane resistant roof system with long-term service life.

A custom-made 20-oz. standing seam copper roof system was selected. Since the copper panels would need to be fabricated, transported, and loaded onto the church roof, the roof underlayment would potentially

be exposed for a long period of time to the elements. In addition the contractor wanted a self-adhered roof underlayment that would bond well to the original SBS peel and stick roof underlayment and serve as a slip sheet for the 20-oz copper standing seam used to recover the church dome. While researching options, the contractor found that Sharkskin Ultra SA, a self-adhered synthetic underlayment that could be left exposed for up to 12 months, provides a high temp rating under the copper roof, and is slip-resistant even when wet. The Sharkskin Ultra SA

could be easily bent, folded, and adjusted to the variety of roof angles, and with nail sealability to insure there was no leaking while waiting for the copper roof panels to arrive.

Structural damage is a fact of life to those who live in high-risk natural disaster areas, but with good people and new technology these areas can become less hazardous. Until the day people will be able to stand inside their buildings watching a hurricane pass through saying, "Does it seem windy to you?"

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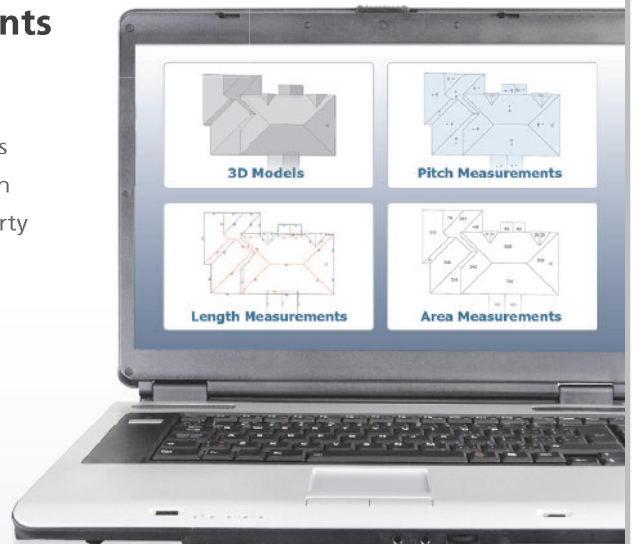
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