

# Energy Shield, Inc.:

## USPS-Saginaw, Michigan

Installer: **Energy Shield, Inc.**

Location: **Saginaw, Michigan**

Type of Job: **Re-roofing**

Square Footage of Job: **50,000**

Equipment Used: **Gusmer proportioning unit and Grace airless paint pump**

Number of people needed for the Job: **6**

Number of days required by the Job: **2-3 months**

Special Requirements: **site-specific safety plan, roof-top safety meeting**

Foam and coatings used: **Bay Systems foam and coating**

**Project Description:** Saginaw Michigan, US Postal Service mail processing center. 50,000 square foot, standing seam metal roof that had 18 roof top mounted HVAC units that required frequent maintenance. There were numerous leaks at the overlapping seams and around units. The system used consisted of:

1. adhering a 2½ iso-board (pre-beveled) onto the metal roof between the standing seams using Firestone Iso 95+ polyiso foam adhesive.
2. Over the board, BaySystems primer was installed followed by a 2 layer of BaySystems 3.0lb density foam forming a continuous near-flat roofing assembly over the entire roof. Standing seams were completely buried beneath the foam.
3. Over the foam, the BaySystems silicone rubber membrane with granular surfacing was then installed to meet 20-year performance criteria

**Benefits of using Foam:** Stop the numerous roof leaks at seams and around HVAC units. Alter the roof surface to facilitate access to HVAC equipment for frequent repairs. They wanted the roof to be relatively flat/smooth to facilitate walking and rolling hand-carts. The finished roof system now offers a uniform roof surface for walking and movement of small rubber tired carts. With granular surfacing, it is slip-resistant and able to handle most random foot traffic. Roof pads were installed around the scuttle hatch and along side each HVAC unit at the access panels.



**2009 SPFA Industry Excellence Awards**

**Category: Roof Foam > 40,000 sq. ft.**

