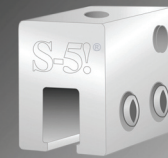


# Solar Array Installation Carolina, Puerto Rico



“ We were working so fast and efficiently that our client asked us to teach another crew on an adjacent project about S-5! clamps and how to use them. ”

Ben Quartermaine  
WES Industries



The S-5-PV Kit provides a strong attachment solution without piercing the roof panel!

The S-5-PV Kit provided a superior ease-of-use that streamlined installation and provided the necessary strength that would last the life of the roof. What's more, the installation kits came in at just 25% of the cost of installing a racking system! The S-5-PV Kit utilizes a patented clamp that grips the seam of the roof without piercing it. That means no leaks, preserves the manufacturer's warranty, yet can provide the required wind uplift resistance resulting from 145 mph wind speeds.

## ■ Finding a Way

High electric rates force business owners in Puerto Rico to constantly seek new ways to contain energy costs. However, Puerto Rico's hurricane force winds and moisture levels present challenges for the installation of solar panel arrays. Florida-based WES Industries was able to help Mini Warehouse of Carolina, Puerto Rico successfully move ahead in its efforts to save on energy costs. With the help of attachment solutions developed by S-5!<sup>®</sup>, the contractor was able to effectively retrofit an existing metal storage facility with a 130 kilowatt weapon in the battle against high electricity costs.

## ■ What Worked?

S-5-PV Kits provided the strength the project demanded and the ease-of-installation WES Industries required. The technical information found at [www.S-5.com](http://www.S-5.com) and the exceptional cost-savings of the system made the entire system viable. The installation was so quick and easy that a competing contractor on an adjacent project was prompted to inquire about S-5!

## ■ Long Term Outlook

Completed in March 2009, this project demonstrates S-5!'s commitment to providing the metal roofing industry with superior solutions for a demanding roof attachment challenge. This client now enjoys the daily savings of a solar panel array and the security of a cost effective mounting solution that is tough enough to last the life of the roof itself.

## At A Glance:

**Customer:**  
Mini Warehouse  
WES Industries



**Location:**  
Carolina, Puerto Rico

**Industry:**  
Storage Facilities

**Situation:**  
High energy costs in Puerto Rico demand greater efficiency in energy expenditures. Mini Warehouse took advantage of a tax incentive to install 768 solar power modules on over 25,000 square feet of roof area. S-5-PV Kits were used to attach the panels with the strength needed to accommodate the difficult weather challenges of the region.

**Results:**  
The use of the S-5-PV Kits led to a fast and economical transition to solar technology. The contractor was able to complete the installation at just 25% of the cost of other solar attachment systems... all with strength to withstand hurricane force winds and require no holes in the original roof panels which can cause leaks.

**Stats:**

- 25,000 Square Foot
- 768 Total Installed Solar Panels
- 130 kWp