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CASE STUDY

ACBEL POLYTECH PHILIPPINES, INC.



ROOFING LIFELINE FOR SOLAR PANEL MAINTENANCE

AFF4000 FX HORIZONTAL LIFELINE SYSTEM

PROJECT CASE STUDY

SCAN TO VIEW
PRODUCT



Client : Acbel Polytech Philippines, Inc.
Industry : Semiconductor and Electronic Component Manufacturing
Project name : Roof Horizontal Lifeline for Solar Power Maintenance
Products used : AFF4000 FX Horizontal Lifeline System on Trapezoidal Roof

Background

Acbel Polytech Philippines, Inc. is a globally recognized manufacturer of semiconductors and electronic components, providing advanced power management solutions to a wide range of industries. As part of its sustainability initiatives, the company **installed a rooftop solar power system at its Philippine facility to reduce carbon emissions and improve energy efficiency.**

However, the rooftop solar installation introduced safety challenges, particularly during maintenance and inspections on elevated surfaces. To support operational continuity and employee safety, Acbel required a fall protection solution aligned with its environmental and safety objectives.

Requirement

The client needed a compliant fall protection system tailored for a **trapezoidal metal roof** that would not compromise roof integrity or solar infrastructure. The system had to allow safe, efficient movement for maintenance workers while protecting the roof's waterproofing. Additionally, Acbel emphasized the importance of multi-user capability, weather durability, and full compliance with both local and international safety standards, ensuring minimal disruption to daily operations.



KStrong Solution

KStrong provided its **AFF4000 FX Horizontal Lifeline System**, specifically configured for **trapezoidal roof applications**. Using specialized mounting brackets, the system ensured secure attachment without penetrating the roof sheeting, maintaining its structural integrity and waterproof performance.

Designed to support multiple users simultaneously, the lifeline system features energy-absorbing components and corrosion-resistant materials ideal for outdoor use. KStrong's engineering team partnered with Acbel to design and install the system with precision, ensuring full compliance with **EN 795 and OSHA standards** while integrating smoothly with the existing solar layout.

About KStrong

The founders of KStrong have been successfully manufacturing personal protective equipment globally for over 20 years. With the support of a large team of highly experienced research and product development specialists along with global manufacturing facilities, KStrong is poised to become the preeminent brand of choice for personal protective safety products. KStrong takes pride in assuring careful measures to ensure all products meet applicable government codes and professional standards, such as EN, AS/NZS and ANSI. We look forward to helping your company protect its most valued possession, its workers!



Project Gallery





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