

KSTRONG®
UNRIVALED SAFETY.

KS GROUP

CASE STUDY

SOLAR CONTRACTOR FOR TELECOM



LIFELINE ROOF SYSTEM FOR SOLAR POWER MAINTENANCE

AFF4000 IMPAXX HORIZONTAL LIFELINE SYSTEM



Client : Solar Contractor for Telecom
Industry : Solar / Telecom Company in Philippines
Project name : Installation of Roof Horizontal Lifeline for Solar Power Maintenance
Products used : AFF4000 IMPAXX Horizontal Lifeline System on Trapezoidal and Standing Seam Roofs

Background

A leading telecom center in the Philippines recently integrated rooftop solar power systems across two of its facilities to strengthen sustainability initiatives, lower operating costs, and ensure energy resilience for mission-critical operations.

However, the solar rooftop installation created safety challenges, particularly for personnel conducting inspections, cleaning, and maintenance on elevated surfaces. With uninterrupted operations being vital to telecom reliability, the facilities required dependable fall protection solutions that aligned with both safety and environmental objectives.

Requirement

The client required fall protection systems tailored for **two roof types (trapezoidal metal and standing seam)** with the following key needs:

- Secure attachment without damaging roof integrity or solar infrastructure
- Safe and efficient mobility for maintenance workers during solar panel servicing
- Multi-user capability for simultaneous operations
- Durability to withstand harsh tropical outdoor conditions
- Full compliance with international and local safety standards
- Minimal disruption to data center and solar operations during installation



KStrong Solution

KStrong provided its **AFF4000 IMPAXX Horizontal Lifeline System**, engineered specifically for trapezoidal and standing seam roof applications.

- **Dual-roof compatibility:** Specialized non-penetrating brackets for trapezoidal roofs and seam clamps for standing seam roofs ensured waterproofing and structural integrity were preserved.
- **Multi-user functionality:** Both systems support multiple personnel moving simultaneously, enhancing operational efficiency.
- **Weather durability:** Energy-absorbing, corrosion-resistant materials guarantee long-term performance in tropical climates.
- **Regulatory compliance:** Fully compliant with EN 795 and OSHA standards, meeting both international and Philippine safety requirements.
- **Seamless integration:** Designed to work around existing solar panel arrays and access paths, ensuring no interference with telecom operations.

About KStrong

The founders of KStrong have been successfully manufacturing personal protective equipment globally for over 25 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!







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