SF INDUSTRIES

PREMIUM INFRASTRUCTURE SOLUTIONS

TECHNICAL DATA SHEET

PART NO: SFI-FEN-xx

The SF Industries **SFI-FEN-xx** is a commercial-grade, multi-surface 14.5 ft. structural aluminum pipe or panel fence mounting system. Specifically designed for solar area and utility lighting configurations, this pre-engineered modular solution integrates a dual-axis lowering hinge for convenient ground-level access. It includes a versatile multi-post bracket assembly adaptable to standard structural interfaces.

SYSTEM KIT COMPONENTS & BILL OF MATERIALS

COMPONENT ITEM	QTY	STRUCTURAL DESCRIPTION & MATERIAL SPECIFICATIONS
Upper Pole Section	1	5 ft. straight structural aluminum pipe, threaded single-end (1.5" NPT). Available configurations: • **Bent Profile:** For optimal offset light distribution with 1000W ABS area fixtures. • **Straight Profile:** Standard inline installation configuration optimized for 180W fixtures.
Lower Pole Section	1	5 ft. section of structural 1.5" Schedule 40 aluminum pipe, threaded single-end (1.5" NPT).
Connecting Coupling	1	Heavy-wall structural aluminum coupling designed to securely connect the upper and lower 5 ft. pipe sections.
Lowering Hinge	1	Patented structural aluminum lowering hinge allowing the entire pole assembly to fold down for maintenance.
Connection Pipe	1	1 ft. section of structural aluminum pipe used to secure the pole assembly into the mounting bracket.
Fence Mounting Bracket	1	Heavy-duty, weather-resistant universal structural post fence/panel mounting bracket.
Installation Hardware Kit	1	Comprehensive multi-surface fastening pack. Comprises structural hardware for: • **Wood Post:** Heavy-duty hex-head lag bolts. • **1.25" - 1.5" Pipe Post:** Precision clamping structural U-bolts. • **1.5" - 2-3/8" Pipe Post:** Mid-range post clamping structural U-bolts. • **2-3/8" - 2-7/8" Pipe Post:** Large-diameter post clamping structural U-bolts.

APPLICATIONS

- Commercial perimeter, warehouse, and security fence lighting.
- Agricultural boundary, paddock, and ranch panel installations.
- Temporary and permanent civil construction project security.

PRODUCT FEATURES

- **6063 Aluminum:** High-grade structural composition offering superior corrosion resistance and longevity.
- **Patented Lowering Hinge:** Safe ground-level servicing without utility bucket trucks.
- **Universal Structural Compatibility:** Clamps directly to standard wood or metal pipe posts up to 2-7/8" OD.
- **Kitted Ease:** Shipped as a complete system with all required fastening hardware.

INSTALLATION & DESIGN GUIDELINES

RECOMMENDED TOTAL FIXTURE HEIGHT

For optimal light distribution delivering up to a **70 ft. radius of coverage**, a total finished fixture height between **18 ft. and 22 ft.** is recommended.

BRACKET MOUNTING HEIGHT

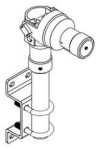
Mount the fence mounting bracket at a height of **4.0 ft. to 4.5 ft.** from ground level on your existing structural post to establish proper height clearance and leverage.

ASSEMBLY NOTE

A pipe wrench or strap wrench should be used to fully tighten structural threaded connections prior to final bracket lock-up. Refer to local codes for approved wind-load anchors.

TECHNICAL VISUAL AIDS & INSTALLATION STAGES

1. CONNECTION PIPE & BRACKET



2. HINGE & BRACKET ASSEMBLY

3. FULLY ASSEMBLED POLE SYSTEM

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