



Hebei Longze Metal Products Manufacturing Co., LTD

Technical Data Sheet: Aluminum Solar Roof Walkway System

Product Overview

Brand: Longze Fasteners

Product Name: Solar PV Roof Walkway / Anti-Slip Maintenance Path

International Standards: AS 1657 (Fixed Platforms/Walkways) / OSHA 1910.23 / EN 516

Material Grade: Aluminum Alloy AL 6005-T5 (High Strength & Lightweight)

Compatible Hardware: Stainless Steel SUS304 / A4-80 Bolts & Nuts

Application Scenarios: Industrial & Commercial Rooftops, Safe Access for PV Panel Cleaning and Maintenance.

Dimensional Configuration (Standard Series)

Technical Specifications

<i>Component Item</i>	<i>Specification / Value</i>	<i>Material</i>
<i>Standard Width</i>	<i>300 mm / 400 mm / 600 mm</i>	<i>AL 6005-T5</i>
<i>Plank Thickness</i>	<i>2.5 mm / 3.0 mm (Heavy Duty)</i>	<i>AL 6005-T5</i>
<i>Surface Pattern</i>	<i>Aggressive Anti-Slip Serrated / Perforated</i>	<i>-</i>
<i>Max Span</i>	<i>Up to 1500 mm (Between Supports)</i>	<i>-</i>
<i>Surface Treatment</i>	<i>Anodized Aluminum, Thickness \geq 12μm</i>	<i>AA Class 10/15</i>

***Note: Custom structural designs are available based on project wind and snow load reports.**

Technical Specifications & Load Performance

<i>Property Item</i>	<i>Specification / Value</i>	<i>Standard</i>
<i>Tensile Strength (R_m)</i>	≥ 260 MPa	ASTM B221
<i>Yield Strength ($R_{p0.2}$)</i>	≥ 240 MPa	ASTM B221
<i>Uniform Distributed Load</i>	≥ 2.5 kN/m ²	AS 1657 / EN 516
<i>Point Load Capacity</i>	≥ 1.5 kN (Concentrated Load)	AS 1657
<i>Corrosion Resistance</i>	Excellent (C4/C5 Coastal Ready)	ISO 9223

"Recommended with: Longze Solar Mounting Fasteners".

Eric's Professional Advice:

- 1 · Safety First: Our walkways feature a high-traction serrated surface. This is critical for preventing slips during early morning maintenance when dew or frost may be present on the panels and roof.*
- 2. Roof Protection: By distributing the weight of maintenance personnel across our AL 6005-T5 rail system, we prevent localized pressure damage to the roof sheets and minimize the risk of micro-cracks in the PV modules.*
- 3. Fastener Strategy: To ensure the walkway stays secure for 25+ years, we recommend using Longze A4-80 Stainless Steel bolts. These provide superior vibration resistance compared to standard galvanized fasteners, especially on metal roofs.*

Contact Longze Fasteners:

Sales Director: Eric



Email: eric@lzfasterners.com

Website: www.lzfasterners.com

Location: Jili Commercial City, Yongnian District, Handan City, Hebei Province, China