

The TOUGH TRAC solution for a low angle design for Flat Roof Mounting features a ballast design for a penetration free installation.

For applications requiring a flush look for flat roofs, the TOUGH TRAC Low Angle Ballast Portrait System features a 10 degree tilt with a penetration free ballast system.

Available with the TOUGH TRAC Standard Rail, our stock Low Angle Ballast Portrait System can be designed to all types of configured layouts.

In addition, with rear Joining Braces to another row, all systems are interlocked together to create a uniform array which prevents any row from sliding on the roof during high winds. Each ballast tray is designed to hold 12 concrete blocks from 4 - 8 inches for the required weight needed.

Consult your installer, architect, or engineer to determine your roof structure max weight loads and adequate spacing for shadowing between rows.

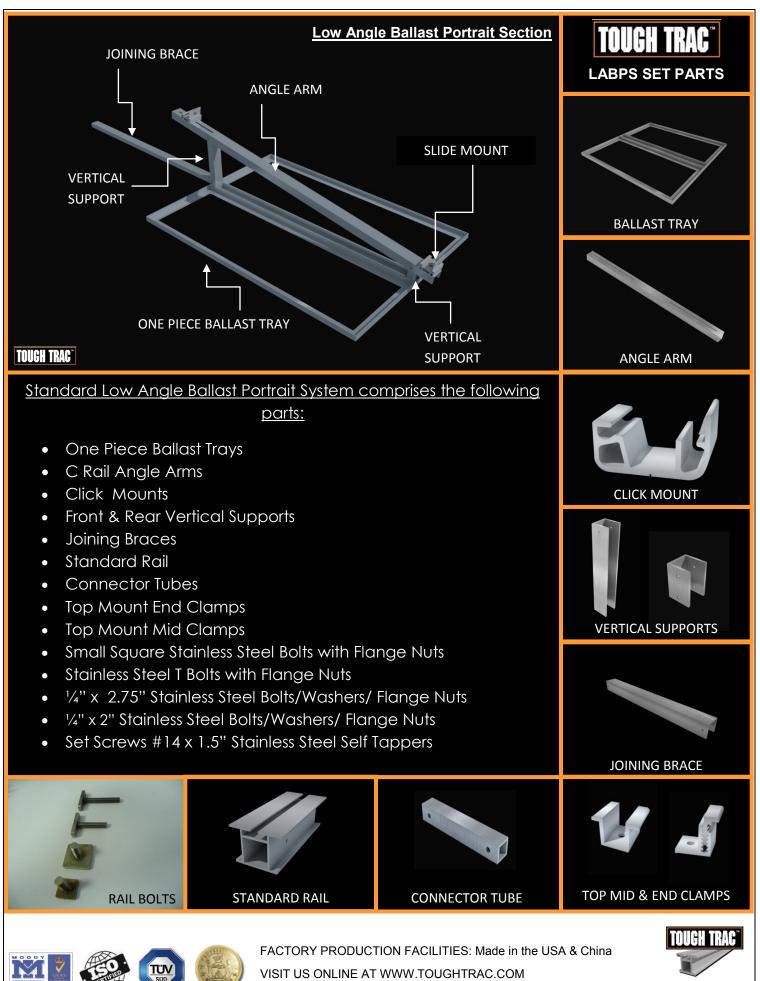
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FACTORY PRODUCTION FACILITIES: Made in the USA & China



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## **Component Specifications**

Aluminum Rail & Parts: 6061 & 6005 (Mill Finish) Hardware Parts: 300 Series Stainless Steel Ballast Tray: One Piece Welded Dead Load Weight: 0.88 PSF

## Code Compliant

PE Certified TUV Tested ISO Certified

## <u>Warranty</u>

20 Years Limited Warranty

## **Technical Support**

Installation Manual & Videos Layout Design & Bill of Materials Calculated

# Key Benefits:

- Lowest Priced MSRP in the market.
- Simple Installation and Ordering.
- Designed with One Piece Ballast Tray for easy install & can hold up to 12 blocks.
- Designed and Able to mount oversize panels. (250W 300W)
- Designed with 8" clearance in front end to avoid snow.
- Designed to accommodate all types of layout configurations.
- Best in class spans for Standard Rail.
- Standard rail spans 96" for 120mph wind zones
- 100% all Aluminum Components and Stainless Steel Hardware.
- 20 Year Limited Warranty.
- 5.5 psf ballast weight needed for 90 mph wind zones.



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