

# AEROCOMPACT®

ENGLISH

**NEW**

RAISED  
TLE TRAPEZOIDAL  
SHEET BRIDGE

## COMPACTMETAL TL

COMPACTMETAL TL IS A SIMPLE AND VERSATILE PV MOUNTING SOLUTION DESIGNED TO SERVE AS A BRIDGE BETWEEN RIBS ON TRAPEZOIDAL SHEET METAL ROOFS. THE TRAPEZOIDAL BRIDGES, AVAILABLE IN 9.8 INCH AND 15 INCH LENGTHS, ARE SCREWED DIRECTLY INTO THE RIBS OF THE TRAPEZOIDAL SHEET WITHOUT THE NEED FOR CUTTING OR DRILLING. THE MODULE CLICK-CLAMPS ARE MOUNTED DIRECTLY INTO THE TL BRIDGE.

### INTELLIGENT SOLAR RACKING

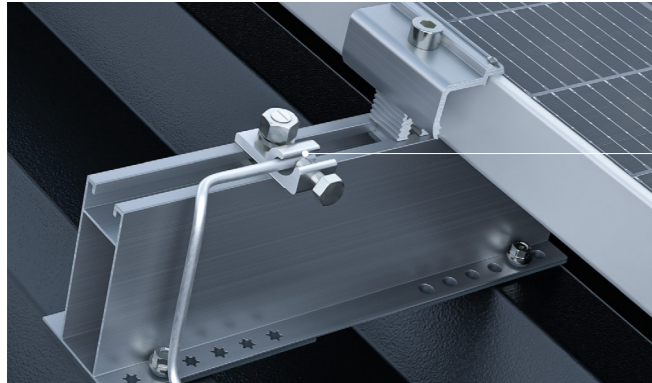
- + Minimal material and installation effort
- + Mounts perpendicular to ribs
- + Tilt with TL – elevated with TLE
- + For high wind and snow loads
- + Improve system performance and ease installation with TLE



# COMPACTMETAL TL

## TRAPEZOIDAL SHEET ROOF – BRIDGE SYSTEM

The COMPACTMETAL TL and TLE trapezoidal sheet bridges mount modules in landscape or portrait orientation. The bridges are pre-assembled with a sealing EPDM layer and paired with sealing sheet metal screws.



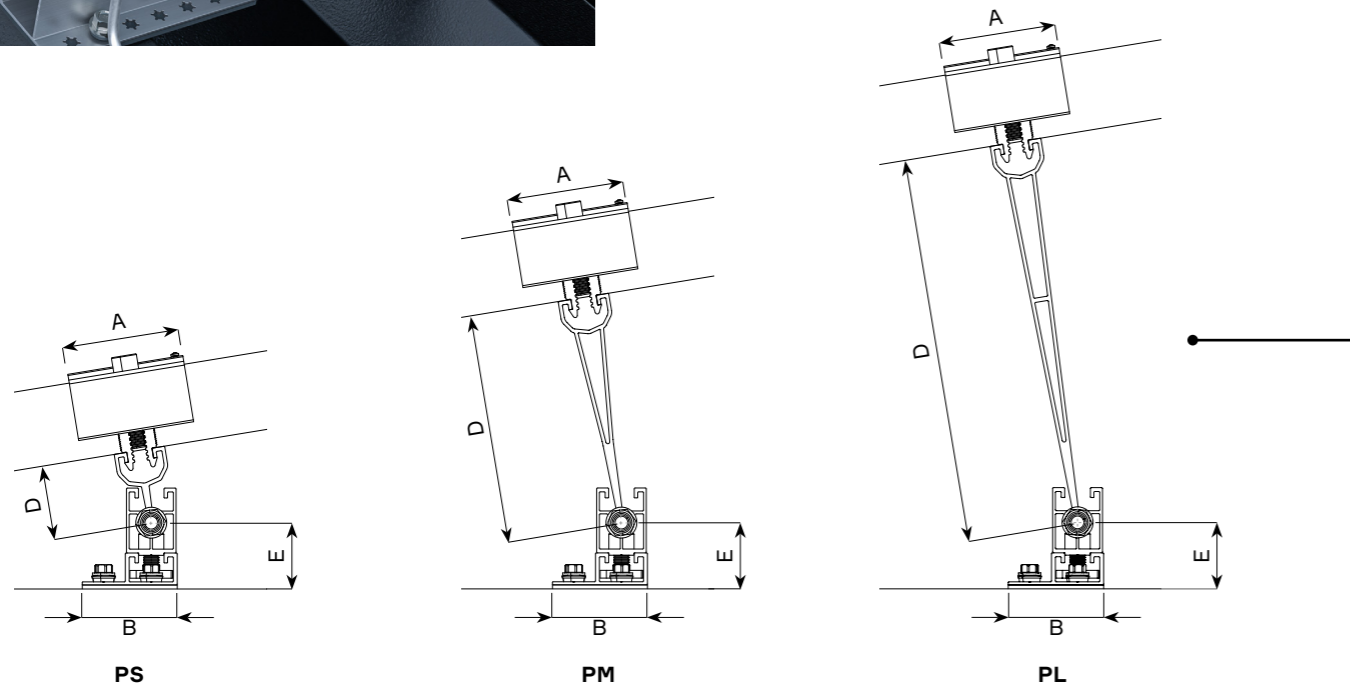
## TL25/TL38 TRAPEZOIDAL SHEET BRIDGE

Choose TL25 or TL38 to tilt modules up to 10° for higher module power output.

## TLE25/TLE38 RAISED TRAPEZOIDAL SHEET METAL BRIDGE

For a simple, cost-effective solution, choose TLE25 or TLE38. These options offer rear-side module ventilation to enhance performance while providing ample space for wire management and easy MLPE installation.

Ground each array with one ground lug. Modules are bonded to each other through middle clamps, and rows are bonded to each other through bonding jumpers.

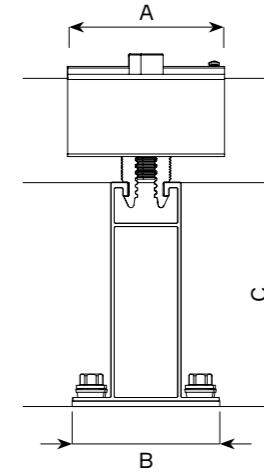


	A [in]	B [in]	C [in]	D [in]	E [in]
TL25/TL38	2.36	1.92	0.72	-	-
TLE25/TLE38	2.36	2.13	3.22	-	-
TL25/TL38 – EL05	2.36	1.92	2.04	-	-
TL25/TL38 – EL10	2.36	1.92	4.01	-	-
TL25/TL38 – EL05 – PS/PL	2.36	1.92	-	1.49	1.34
TL25/TL38 – EL05 – PS/PM	2.36	1.92	-	4.04	1.34
TL25/TL38 – EL05 – PS/PL	2.36	1.92	-	8.03	1.34

# THE VERSIONS

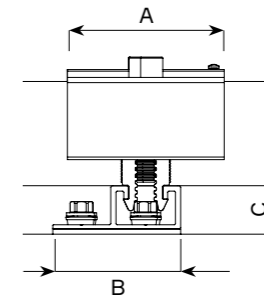
## TLE25/TLE38

- + TLE25 trapezoidal sheet bridge, length 9.84 in/
- + TLE38 trapezoidal sheet bridge, length 14.96 in
- + CLE10 end clamp Click 1.18–1.81 in
- + CLM10 middle clamp Click 1.18–1.81 in
- + MSS 6x25 metal sheet screw



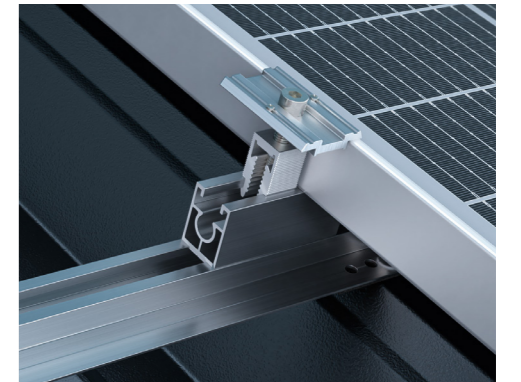
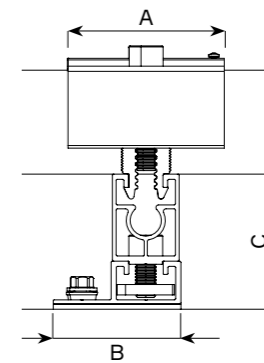
## TL25/TL38

- + TL25 trapezoidal sheet bridge, length 9.84 in/
- + TL38 trapezoidal sheet bridge, length 14.96 in
- + CLE10 end clamp Click 1.18–1.81 in
- + CLM10 middle clamp Click 1.18–1.81 in
- + MSS 6x25 metal sheet screw



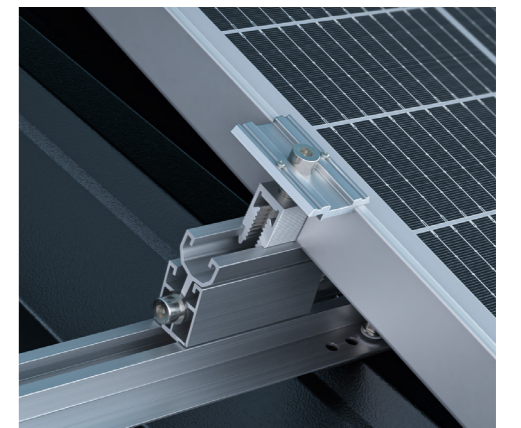
## TL25/TL38 – EL05/EL10

- + TL25 trapezoidal sheet bridge, length 9.84 in/
- + TL38 trapezoidal sheet bridge, length 14.96 in
- + EL05/EL10 height adapter
- + CLE10 end clamp Click 1.18–1.81 in
- + CLM10 middle clamp Click 1.18–1.81 in
- + MSS 6x25 metal sheet screw



## TL25/TL38 – EL05/EL10 – PS/PM/PL

- + TL25 trapezoidal sheet bridge, length 9.84 in/
- + TL38 trapezoidal sheet bridge, length 14.96 in
- + EL05 height adapter
- + PS front inclination adapter
- + PM rear inclination adapter
- + PL rear inclination adapter
- + CLE10 end clamp Click 1.18–1.81 in
- + CLM10 middle clamp Click 1.18–1.81 in
- + LSP locking screw set to secure the inclination adapters
- + MSS 6x25 metal sheet screw



# AEROCOMPACT®

- + Portrait or Landscape Orientation
- + Compact packing and minimal storage
- + Tilt with TL to maximize module power output
- + Elevate with TLE to maximize system capacity

## TECHNICAL DATA

<b>DESCRIPTION</b>	Mounting system with rail bridges for mounting framed PV modules on trapezoidal metal roofs.
<b>AREA OF APPLICATION</b>	On trapezoidal sheet metal roofs with a sheet thickness of at least 0.02 inch aluminum or 0.016 inch steel.
<b>MODULE DIMENSIONS</b>	Any
<b>INSTALLATION ANGLE</b>	TL: Installed either parallel to the roof or tilted at an angle between 5° and 15°. TLE: Parallel to roof.
<b>CLAMPING OPTIONS</b>	Long or short-side clamping. Clamp on the long-side for higher module load capacity.
<b>DISTANCE TO ROOF SURFACE</b>	TL: 0.7 inch with optional 2 or 4 inch height adapters. TLE: 3.15 inch.
<b>DISTANCE FROM THE ROOF EDGE</b>	No minimum distance required.
<b>MAX. BUILDING HEIGHT</b>	328 ft (adaptation to higher buildings on request).
<b>MAX. ROOF INCLINATION</b>	Up to 75° when modules are parallel to roof. Up to 15° when tilting modules. Contact Applications Engineering for approval for higher roof tilts.
<b>MAX. FIELD SIZE</b>	Vertically unlimited, horizontally 5 modules in portrait or 3 modules in landscape. Larger array sizes permitted by Applications Engineering.
<b>MIN. FIELD SIZE</b>	No lower limit.
<b>WIND LOAD</b>	Limited by conditions on site and module load capacity.
<b>SNOW LOAD</b>	Limited by conditions on site and module load capacity.
<b>CODE STANDARDS</b>	ASCE 7-10, ASCE 7-16 and ASCE 7-22 standards. UL 2703 compliant
<b>BUILDING REQUIREMENTS</b>	Structural feasibility provided by others to ensure calculated racking design can be supported. General terms and warranty conditions apply based on the information provided to AEROCOMPACT. Including PV modules selected by others.
<b>COMPONENTS</b>	Module clamps with grounding pins, trapezoidal sheet metal bridge; optional: height adapter, tilt adapter, grounding lug, optimizer fastening.
<b>MATERIALS</b>	Load-bearing connecting parts and module clamps made from EN AW-6063 T66 aluminum, screws made of stainless steel A2-70, sealing elements made of EPDM.