

# SOLAR RETROFIT TESLA PANEL MOUNT

This innovative system accelerates the transition to sustainable energy by offering the lowest part count, fastest installation, fewest roof penetrations, superior aesthetics, and cutting-edge product features compared to traditional alternatives.

- **Fastest Install Time**  
33% faster than the average of other systems.
- **Fewest Roof Penetrations**  
Leading to faster installation, lower balance-of-system costs, and fewer service calls.
- **Best-in-Class Aesthetics**  
No visible clamps, front and side skirt, and low profile.
- **Simple, One Tool Installation**  
Hardware rocks into Solar Panel groove, smaller, lighter components.

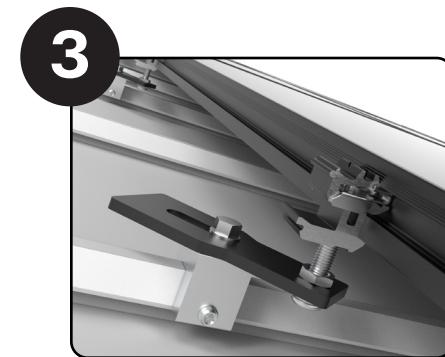
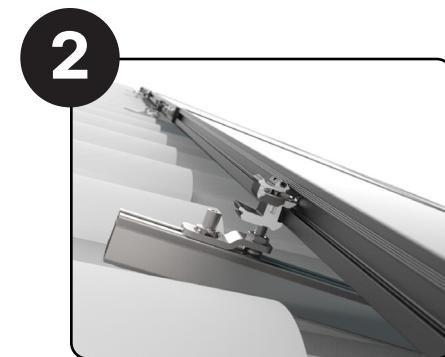


# TESLA SOLAR PANEL

The Tesla Solar Panel blends sleek aesthetics and hidden electrical connections with high powered engineering, exceeding industry performance and quality standards.

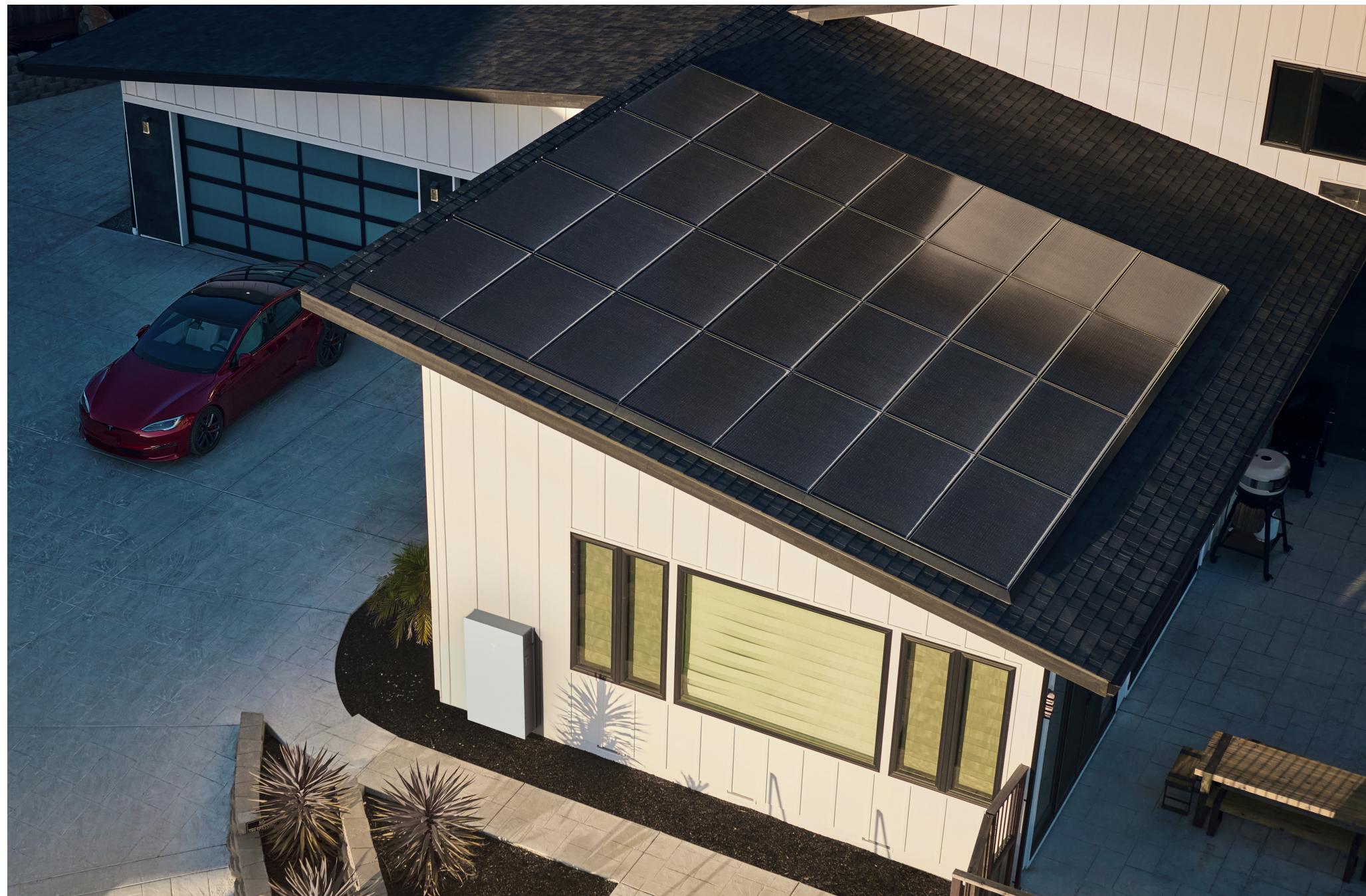
Featuring our proprietary Tesla frame design, the all-black module integrates seamlessly with the Tesla Panel Mount for a minimalist aesthetic with no exposed rails or clamps.

1. Tesla Panel Mount - Comp Rafter
2. Tesla Panel Mount - Tile
3. Tesla Panel Mount - Metal
4. Tesla Panel Mount - Flat



Model Number	TSP-415	TSP-420
Part Number	2550000-15-X	2550000-20-X
Power	415W	420W
Weight	22.3 kg / 49.0 lbs	
Size	1805mm x 1135mm x 40mm / 71.1" x 44.7" x 1.57"	

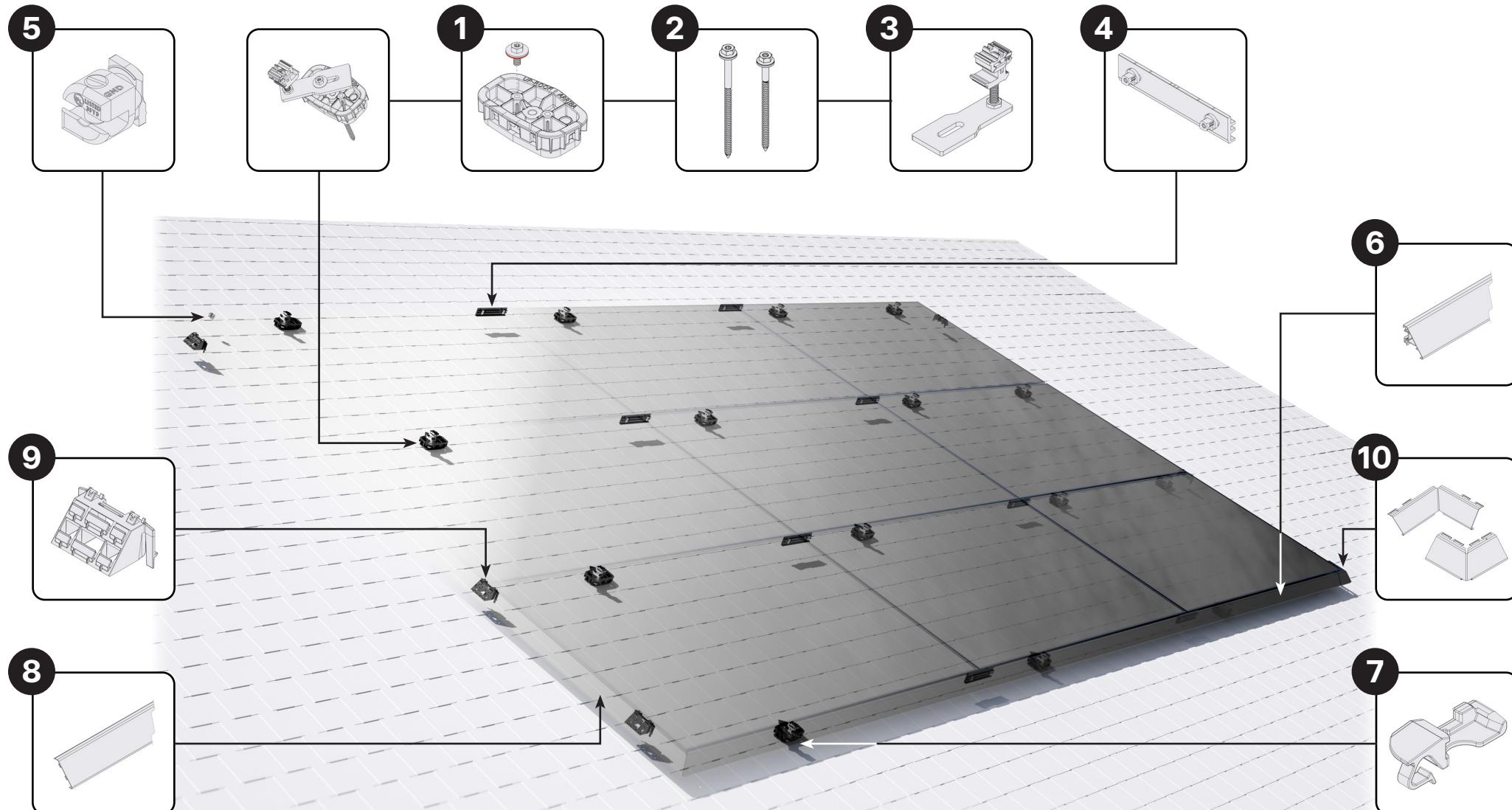
# TESLA PANEL MOUNT COMP RAFTER



# TESLA PANEL MOUNT COMP RAFTER

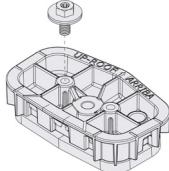
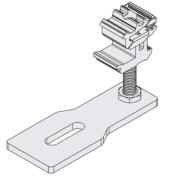
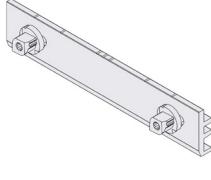
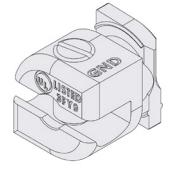
## SYSTEM OVERVIEW

1. Comp Rafter Base	6. Front Skirt
2. Lag Screw	7. Front Skirt Grip
3. Comp Rafter Leveling Foot	8. Side Skirt
4. Interlock	9. Side Skirt Bracket
5. Ground Lockit	10. Corner Cap



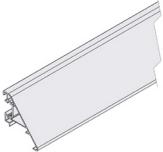
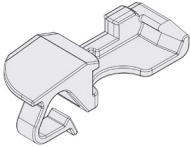
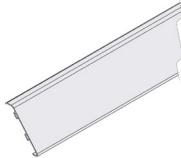
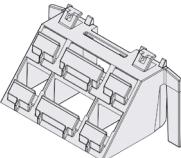
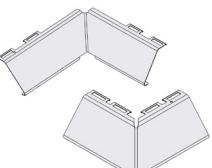
# TESLA PANEL MOUNT COMP RAFTER

## SYSTEM COMPONENTS

Part Image	Part Number	Part Name	Part Description
	2023000-00-X	Comp Rafter Base	Provides a roof mounting attachment point for the array. Listed to UL 2703
	2044245-00-X (4 3/4 in) 2044244-00-X (5 1/2 in)	Lag Screw	Attaches the Comp Rafter Base to the roof rafter.
	1679265-00-X or 1576600-00-X	Sealant Cartridge with Nozzle or Sealant Sausage Pack with Nozzle	Fills a cavity in the Comp Rafter Base for waterproofing.
	2032169-00-X	Comp Rafter Leveling Foot	Secures PV modules to the Comp Rafter Base, bonds connected modules, and enables array leveling. Listed to UL 2703
	1576999-00-X	Interlock	Provides structural and electrical bonding between PV modules within each sub-array. Listed to UL 2703
	1578119-00-X	Ground Lockit	Provides a single point for grounding a PV array. Listed to UL 467 and UL 2703

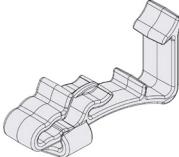
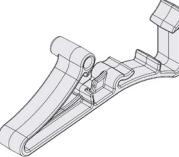
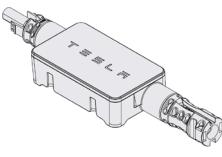
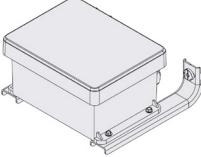
# TESLA PANEL MOUNT COMP RAFTER

## SYSTEM COMPONENTS

Part Image	Part Number	Part Name	Part Description
7		2047098-21-X (1903 mm) 2047098-22-X (2118 mm) 2047098-23-X (1818mm) 2047098-24-X (2296 mm)	Front Skirt Serves as a structural and aesthetic feature for the array and helps establish a straight line to build from. Listed to UL 2703
8		2088697-00-X	Front Skirt Grip Provides structural support to the Front Skirt, connecting it to the Leveling Foot. Listed to UL 2703
9		1993354-01-X (2118 mm) 1993354-02-X (1059 mm) 1993354-04-X (1903 mm) 1993354-05-X (2296 mm) 1993354-06-X (1148 mm) 1993354-07-X (1818 mm)	Side Skirt Covers the edges of the array to create a clean aesthetic.
10		2022523-00-X	Side Skirt Bracket Provides an attachment point for the Side Skirt, connecting it to the Tesla Groove.
11		2049666-00-X (Outside) 2049667-00-X (Inside)	Corner Cap Conceals hardware and creates a clean aesthetic on the corners of the array.

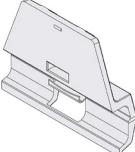
# TESLA PANEL MOUNT COMP RAFTER

## SYSTEM COMPONENTS

Part Image	Part Number	Part Name	Part Description
12 	1578249-00-X	DC Wire Clip	Secures up to 3 conductors underneath a PV module by attaching to the Tesla Groove. Listed to UL 1565
13 	1578389-00-X	Home Run Wire Clip	Secures up to 5 conductors underneath a PV module by attaching to the Tesla Groove. Listed to UL 1565
14 	1879359-15-X	MCI-2 (Mid-Circuit Interrupter)	Tesla's rapid shutdown solution, which is compatible with Tesla power electronics. Listed to UL 1741
15 	1571739-00-X	Combiner Box	Provides terminal blocks to make parallel connections and transition wire. Connects directly to the Tesla Groove. Listed to UL 1741
16 	2043367-00-X	Conduit Support	The Conduit Support accommodates $\frac{3}{4}$ and 1 in trade sizes of EMT, PVC, and RMC. Adjustable, openable, and attaches with a single self-sealing fastener.
17 	1578102-00-X	Flashing Vent Shield	Installed above cut DWVs to allow air flow while preventing debris ingress.

# TESLA PANEL MOUNT COMP RAFTER

## SYSTEM COMPONENTS

Part Image	Part Number	Part Name	Part Description
18 	1578106-00-X	Vent Flashing with Gasket	Replaces the standard DWV flashing to allow for relocated vent routing.
19 	1578189-00-X	Snow Guard	Installs into the panel frame to hold snow on top of the modules when panels are installed above walkways or driveways.

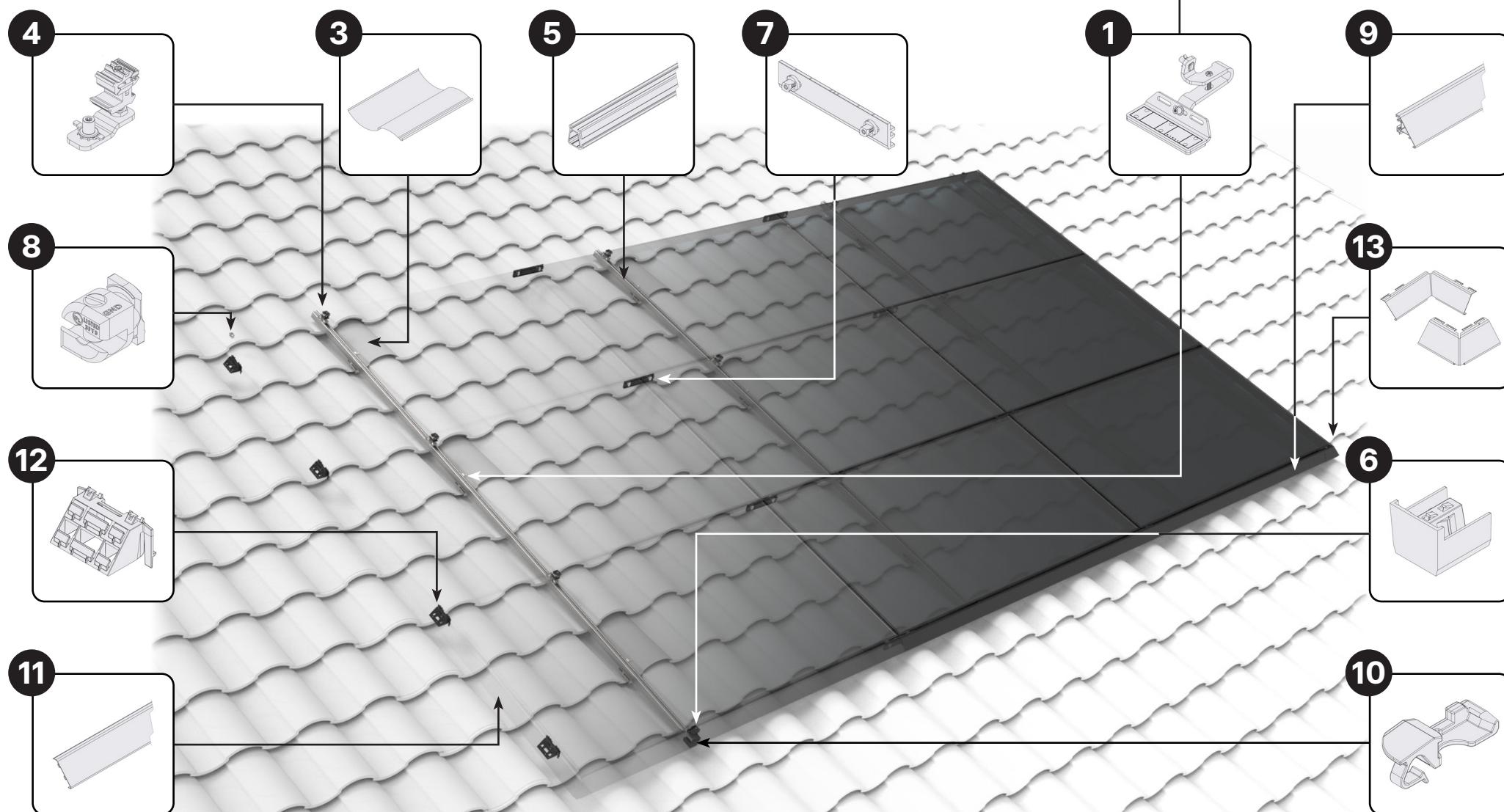
# TESLA PANEL MOUNT TILE



# TESLA PANEL MOUNT TILE

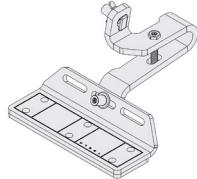
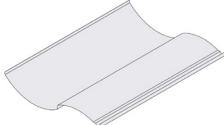
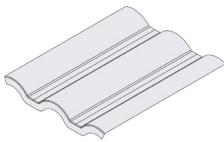
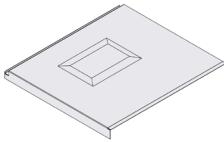
## SYSTEM OVERVIEW

1. Tile Hook	6. Spanner Bar Cap	11. Side Skirt
2. Lag Screw	7. Interlock	12. Side Skirt Bracket
3. S-Tile Replacement Flashing	8. Ground Lockit	13. Corner Cap
4. Leveling Foot (Round Tile)	9. Front Skirt	
5. Spanner Bar	10. Front Skirt Grip	



# TESLA PANEL MOUNT TILE SYSTEM COMPONENTS

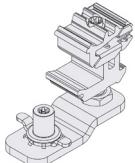
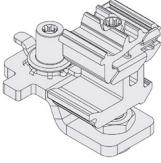
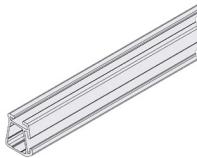
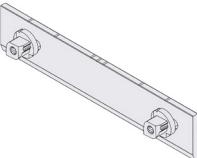
\* UL listing in progress

Part Image	Part Number	Part Name	Part Description
	2125722-00-X	Tile Hook	Provides a roof mounting attachment point for the array. Listed to UL 2703*
	2131805-00-X (4 in) 2044245-00-X (4 3/4 in)	Lag Screw	Attaches the Tile Hook to the roof rafter.
	2049471-10-X	Deck Screw	Attaches the Tile Hook to the roof deck in offset configurations.
	1615280-00-X	S-Tile Replacement Flashing	Matches the shape of removed tiles and covers attachment points to preserve water shedding.
	1615279-00-X	W-Tile Replacement Flashing	Matches the shape of removed tiles and covers attachment points to preserve water shedding.
	1615277-00-X	Flat Tile Replacement Flashing	Matches the shape of removed tiles and covers attachment points to preserve water shedding.

# TESLA PANEL MOUNT TILE

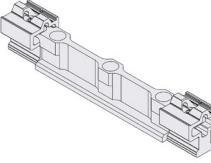
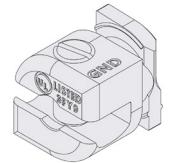
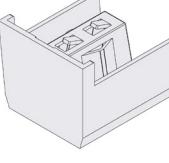
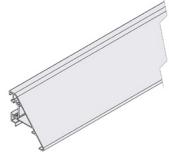
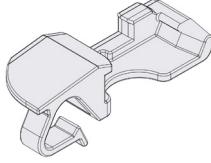
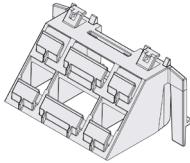
## SYSTEM COMPONENTS

\* UL listing in progress

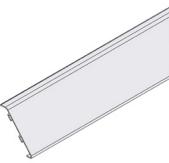
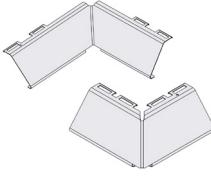
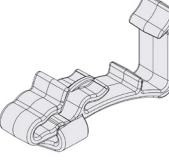
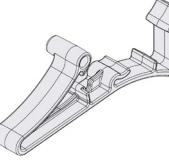
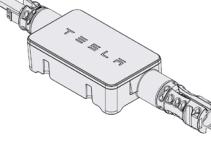
Part Image	Part Number	Part Name	Part Description
7		2133094-00-X	Leveling Foot (Round Tile) Secures PV modules to the Spanner Bar, bonds connected modules, and enables array leveling. Used for S- and W- Tile roofs. Listed to UL 2703*
8		2177129-00-X	Leveling Foot (Flat Tile) Secures PV modules to the Spanner Bar, bonds connected modules, and enables array leveling. Used for Flat Tile roofs. Listed to UL 2703*
9		2129978-01-X (1178 mm) 2129978-02-X (2248 mm) 2129978-03-X (3306 mm) 2129978-04-X (1267 mm) 2129978-05-X (2420 mm) 2129978-06-X (3573 mm)	Spanner Bar Provides a structural component above the tile surface to connect the Leveling Feet and PV modules. Listed to UL 2703*
10		2129977-00-X	Spanner Splice Provides connection between adjacent Spanner Bar lengths. Listed to UL 2703*
11		1576999-00-X	Interlock Provides structural and electrical bonding between PV modules within each sub-array. Listed to UL 2703*

# TESLA PANEL MOUNT TILE SYSTEM COMPONENTS

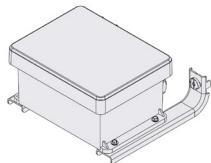
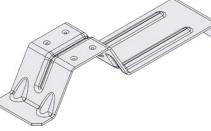
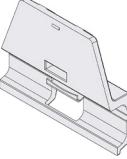
\* UL listing in progress

Part Image	Part Number	Part Name	Part Description
12 	1578969-00-X	Hybrid Interlock	Combines the functions of an Interlock and Leveling Foot for attachment points where space is restricted. Only to be used with Round Tile Leveling Feet.
13 	1578119-00-X	Ground Lockit	Provides a single point for grounding a PV array. Listed to UL 467 and UL 2703*
14 	2167701-00-X	Spanner Bar Cap	Conceals the down-roof end of the Spanner Bar.
14 	2047098-21-X (1903 mm) 2047098-22-X (2118 mm) 2047098-23-X (1818 mm) 2047098-24-X (2296 mm)	Front Skirt	Serves as a structural and aesthetic feature for the array and helps establish a straight line to build from. Listed to UL 2703*
15 	2088697-00-X	Front Skirt Grip	Provides structural support to the Front Skirt, connecting it to the Leveling Foot. Listed to UL 2703*
16 	2022523-00-X	Side Skirt Bracket	Provides an attachment point for the Side Skirt, connecting it to the Tesla Groove.

# TESLA PANEL MOUNT TILE SYSTEM COMPONENTS

Part Image	Part Number	Part Name	Part Description
17 	1993354-01-X (2118 mm) 1993354-02-X (1059 mm) 1993354-04-X (1903 mm) 1993354-05-X (2296 mm) 1993354-06-X (1148 mm) 1993354-07-X (1818 mm)	Side Skirt	Covers the edges of the array to create a clean aesthetic.
18 	2049666-00-X (Outside) 2049667-00-X (Inside)	Corner Cap	Conceals hardware and creates a clean aesthetic on the corners of the array.
20 	1578249-00-X	DC Wire Clip	Secures up to 3 conductors underneath a PV module by attaching to the Tesla Groove. Listed to UL 1565
21 	1578389-00-X	Home Run Wire Clip	Secures up to 5 conductors underneath a PV module by attaching to the Tesla Groove. Listed to UL 1565
22 	1879359-15-X	MCI-2 (Mid-Circuit Interrupter)	Tesla's rapid shutdown solution, which is compatible with Tesla power electronics. Listed to UL 1741

# TESLA PANEL MOUNT TILE SYSTEM COMPONENTS

Part Image	Part Number	Part Name	Part Description
23 	1571739-00-X	Combiner Box	Provides terminal blocks to make parallel connections and transition wire. Connects directly to the Tesla Groove. Listed to UL 1741
24 	1577457-00-X	Conduit Support	Conduit support for use with the Tesla Panel Mount - Tile Rafter system.
25 	1578189-00-X	Snow Guard	Installs into the panel frame to hold snow on top of the modules when panels are installed above walkways or driveways.

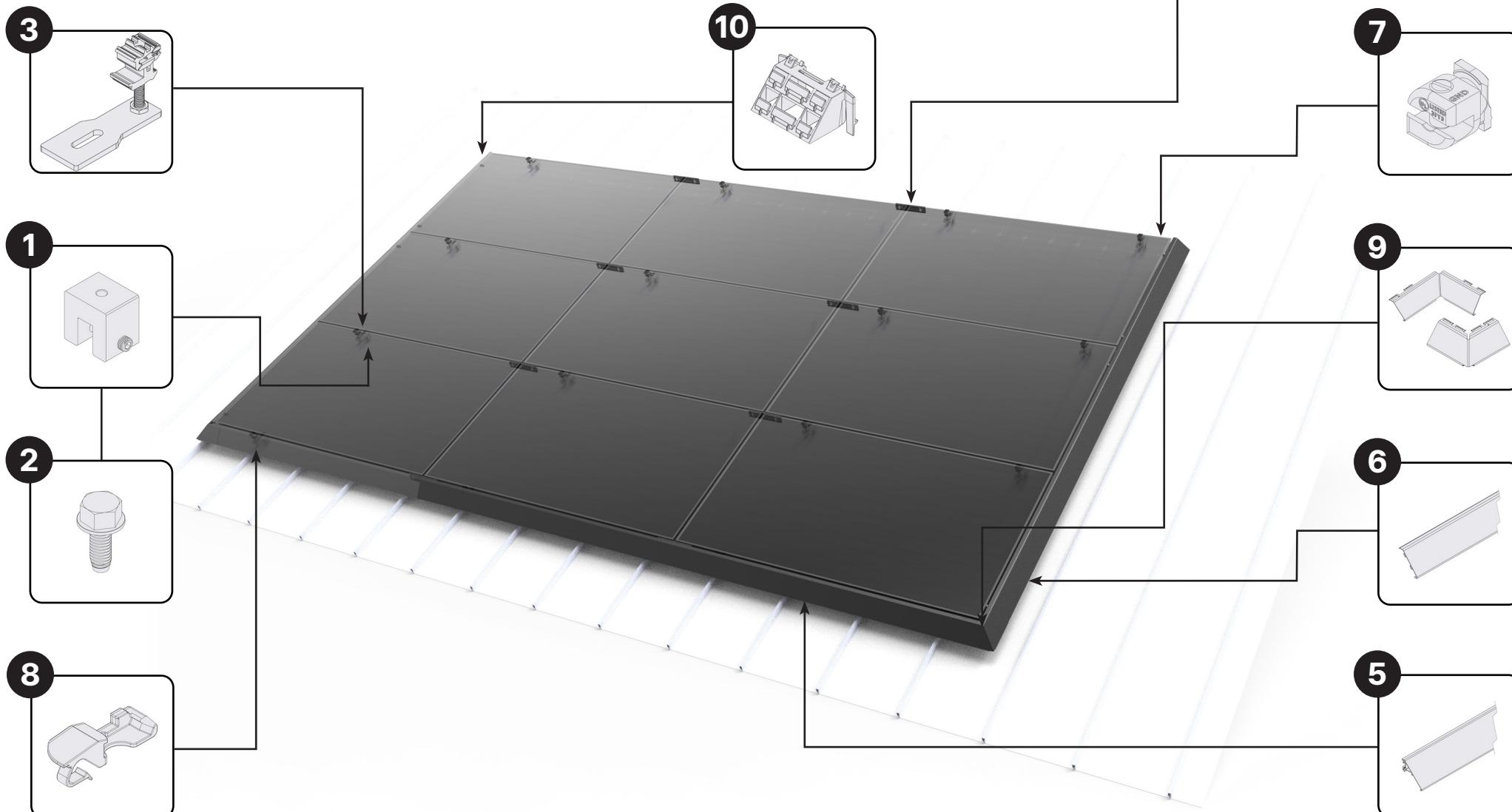
# TESLA PANEL MOUNT METAL



# TESLA PANEL MOUNT METAL SYSTEM OVERVIEW

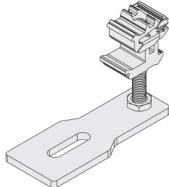
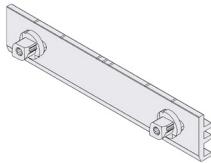
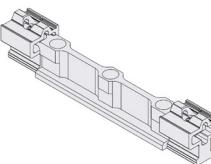
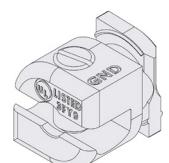
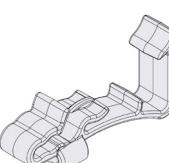
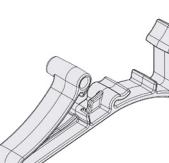
- 1. Standing Seam Clamp\*
- 2. M8 x 16mm Flange Bolt
- 3. Leveling Foot
- 4. Interlock
- 5. Front Skirt
- 6. Side Skirt
- 7. Ground Lockit
- 8. Grip
- 9. Corner Cap
- 10. Side Skirt Bracket

\*Compatible with 3rd party metal seam clamps.



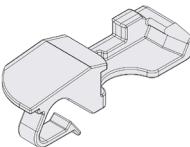
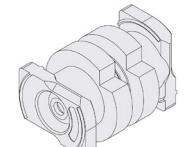
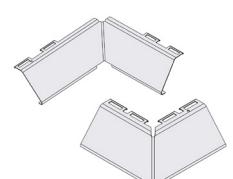
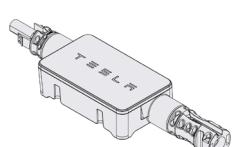
# TESLA PANEL MOUNT METAL SYSTEM COMPONENTS\*

\*Compatible with 3rd party metal seam clamps.

Part Image	Part Number	Part Name	Part Description
	1578860-00-X	Leveling Foot	Secures PV modules to standing seam clamps, bonds connected modules and enables PV leveling. Listed to UL 2703
	1576999-00-X	Interlock	Provides structural and electrical bonding between PV modules within each sub-array. Listed to UL 2703
	1578969-00-X	Hybrid Interlock	Combines the functions of an Interlock and Leveling Foot for attachment points where space is restricted. Listed to UL 2703
	1578119-00-X	Ground Lockit	Provides a single point for grounding a PV array. Listed to UL 467 and UL 2703
	1578249-00-X	DC Wire Clip	Secures up to 3 conductors underneath a PV module by attaching to the Tesla Groove. Listed to UL 1565
	1578389-00-X	Home Run Wire Clip	Secures up to 5 conductors underneath a PV module by attaching to the Tesla Groove. Listed to UL 1565

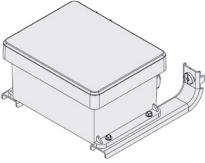
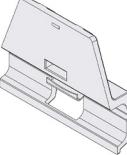
# TESLA PANEL MOUNT METAL SYSTEM COMPONENTS\*

\*Compatible with 3rd party metal seam clamps.

Part Image	Part Number	Part Name	Part Description
7	1623633-17-X (1903 mm)	Array Skirt	The Array Skirt serves as an aesthetic feature for the front and sides of the PV array. Listed to UL 2703
	1623633-18-X (2118 mm)		
	1623633-19-X (1059 mm)		
	1623633-20-X (1818 mm)		
	1623633-21-X (2296 mm)		
	1623633-22-X (1148 mm)		
8		Grip	Provides structural support to the Array Skirt, connecting it to the Leveling Foot. Listed to UL 2703
9		Double Key Assembly	The Double Key Assembly is used to install the array skirt to the side of the array. Listed to UL 2703
10		Corner Cap	The Corner Cap conceals hardware for an aesthetic appearance on the corners of the array.
11		MCI-2 (Mid-Circuit Interrupter)	Tesla's rapid shutdown solution, which is compatible with Tesla power electronics. Listed to UL 1741

# TESLA PANEL MOUNT METAL SYSTEM COMPONENTS\*

\*Compatible with 3rd party metal seam clamps.

Part Image	Part Number	Part Name	Part Description
12 	1571739-00-X	Combiner Box	Provides terminal blocks to make parallel connections and transition wire. Connects directly to the groove on Tesla Compatible PV modules. Listed to UL 1741
13 	1578189-00-X	Snow Guard	Installs into the panel frame to hold snow on top of the modules when panels are installed above walkways or driveways.

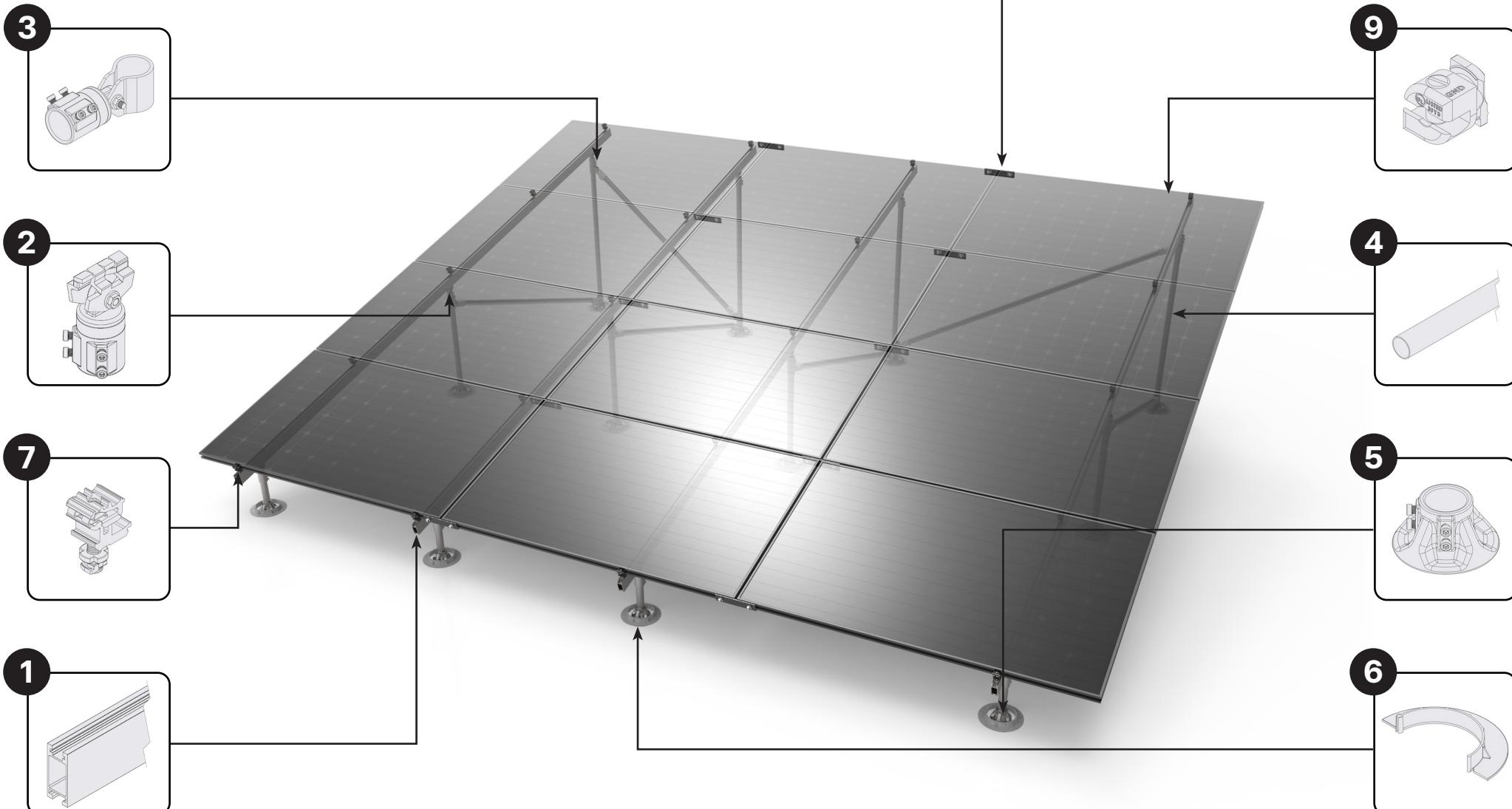
# TESLA PANEL MOUNT FLAT



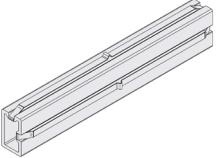
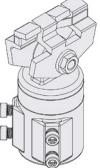
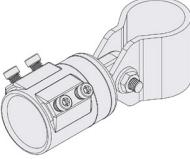
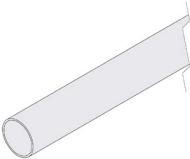
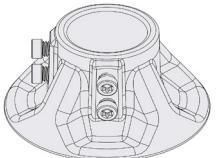
# TESLA PANEL MOUNT FLAT

## SYSTEM OVERVIEW

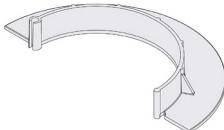
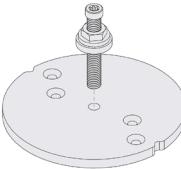
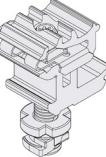
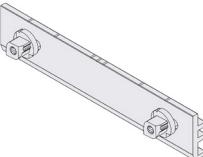
1. Spanner Bar	6. Sealant Ring
2. Post Mount	7. Cam Foot
3. Cross Brace Assembly	8. Interlock
4. Mechanical Tubing (MT)	9. Ground Lockit
5. Base Foot	



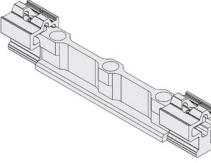
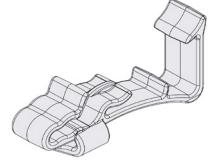
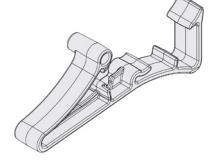
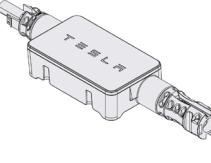
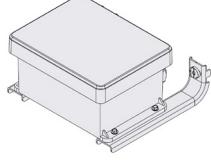
# TESLA PANEL MOUNT FLAT SYSTEM COMPONENTS

Part Image	Part Number	Part Name	Part Description
1	 1623635-01-X (1125 mm) 1623635-02-X (2180 mm) 1623635-03-X (3235 mm) 1623635-04-X (4290 mm)	Spanner Bar	Provides a structural component to connect the structural tubing to the eveling Feet and PV modules. Listed to UL 2703
2	 1576604-00-X	Splice Assembly Kit, Flat	Provides attachment between adjacent rails. Listed to UL 2703
3	 1577560-00-X	Post Mount	Provides an attachment point between Mechanical Tubing (MT) and Rail. Listed to UL 2703
4	 1576606-00-X	Cross Brace Assembly	Provides lateral rigidity to adjacent columns. Listed to UL 2703
5	 1577385-00-X	Mechanical Tubing	Basic structural element in the TPM Flat bracing. Listed to UL 2703
6	 1577562-00-X	Base Foot	Provides a roof mounting attachment point for the array. Listed to UL 2703

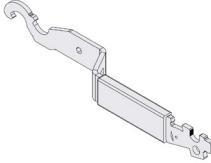
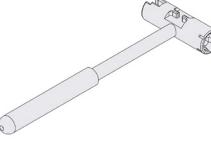
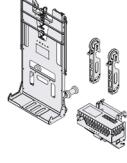
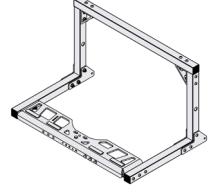
# TESLA PANEL MOUNT FLAT SYSTEM COMPONENTS

Part Image	Part Number	Part Name	Part Description
7 	1576469-00-X	Sealant Ring	Contains sealant around the base foot. *Two pieces required to assemble full ring.
8 	1576694-00-X	Lag Screw	5/16" x 4" lag screw used for standard installations.
9 	1576683-00-X	Lag Screw	5/16" x 5" lag screw used for installation when thicker sheathing is present.
10 	1577203-00-X	TJI Adapter	Connects TPM Flat system to house structure when non-standard rafters, such as TJIs, are present.
11 	1577563-00-X	Cam Foot	Secures PV Modules to the Rail and enables fine-tuned leveling. Listed to UL 2703
12 	1576999-00-X	Interlock	Provides structural and electrical bonding between PV modules within each sub-array. Listed to UL 2703

# TESLA PANEL MOUNT FLAT SYSTEM COMPONENTS

Part Image	Part Number	Part Name	Part Description
13 	1578969-00-X	Hybrid Interlock	Combines the functions of an Interlock and Leveling Foot for attachment points where space is restricted. Listed to UL 2703
14 	1578119-00-X	Ground Lockit	Provides a single point for grounding a PV array. Listed to UL 467 and UL 2703
15 	1578249-00-X	DC Wire Clip	Secures up to 3 conductors underneath a PV module by attaching to the Tesla Groove. Listed to UL 1565
16 	1578389-00-X	Home Run Wire Clip	Secures up to 5 conductors underneath a PV module by attaching to the Tesla Groove. Listed to UL 1565
17 	1879359-15-X	MCI-2 (Mid-Circuit Interrupter)	Tesla's rapid shutdown solution, which is compatible with Tesla power electronics. Listed to UL 1741
18 	1571739-00-X	Combiner Box	Provides terminal blocks to make parallel connections and transition wire. Connects directly to the groove on Tesla Compatible PV modules. Listed to UL 1741

# TESLA RECOMMENDED TOOLS

Part Image	Part Number	Part Name	Part Description
1	 A multifunctional tool for Tesla Solar installation. Includes every feature needed for speedy installation, removal, and service of installed systems.	2066971-00-X	Tesla Solar Wrench
2	 Provides the optimal ergonomics and speed for installing/adjusting Interlocks, Ground Lockits, and spacing modules.	1578989-00-X	Tesla Installation Tool
3	 Tesla's module lifting solution. Attaches to a standard extension ladder and is capable of lifting two modules, three skirt boxes, or multiple work bags. Can be set up and removed in less than five minutes.	2135588-00-X	Ladder Hoist
4	 Proves a rooftop staging option for PV modules prior to installation. Connects directly to a mounting base and can hold up to 9 modules depending on pitch.	2207649-00-X	Retrofit Roof Rack