Flat Roof Solutions



Flat and low-slope roofs offer wide-open layouts for residential and commercial solar, but demand superior drainage clearance, membrane protection, and wind-load resistance. SnapNrack's Ultra Rail flat-roof portfolio pairs one universal base with flush standoffs, high-angle tilt legs, and fixed 5° tilt kits.

Why Installers Choose It

One Universal Base for Any Structure

The Universal OmniBase™ attaches with 1 lag into traditional rafters, 2 or 4 lags into flat rafters, TJI joists, or metal framing, or 6 screws direct to wood decking—featuring built-in alignment marks and anti-rotation geometry.

Structural Waterproofing with OmniShield™

Installs directly over OmniBase™ and seals with roofing sealant to create a watertight, UL 2703 & ASTM E2140 certified barrier while distributing array loads across its wide footprint.

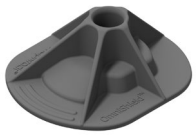
Flush, High-Tilt & 5° Simple Tilt Flexibility

Choose OmniBase™-mounted Flush-Mount Standoff Kits (5-1/2", 7", 8-1/2") and Tilt-Mount Leg Kits (5-1/2", 10", 14", 23"), or direct-mounted Simple Tilt 5° single-lag fixed-tilt legs for portrait and landscape layouts.

Leveling Clamps & Single-Tool Speed

Pre-assembled Leveling Clamps mount directly to Ultra Rail without separate L-feet or T-bolts, compensating for uneven roof surfaces with a single 1/2" socket.

Features & Benefits

Universal Foundation & Structural Waterproofing			
Image	Component	Descriptive SKU *SKUs also available in US Domestic.	Description & Function
	OmniBase™	N/A - preassembled to Flush-Mount and Tilt-Mount Kits	Single-base design accepting 1 lag (rafter), 2–4 lags (flat rafters, TJI joists, metal framing), or 6 screws (rafter-less wood deck). Includes sealant pockets, anti-rotation tabs, and alignment marks.
	OmniShield™	UR-OMNISHIELD	Corrosion-resistant aluminum waterproofing flashing shield that installs over OmniBase™ and seals top and bottom with roofing sealant. Wide footprint and reinforced post support distribute loads; UL 2703 & ASTM E2140 certified.
Flat Roof Mounts			
Image	Component	Descriptive SKU	Description & Function
	Ultra Rail Flush-Mount Kit, 5-1/2" Ultra Rail Flush-Mount Kit, 7" Ultra Rail Flush-Mount Kit, 8-1/2"	UR-FLMT-5.5 UR-FLMT-7 UR-FLMT-8.5	Standoff flush-mount assemblies pre-assembled with Universal OmniBase™ and drop-in Leveling Clamps. Engineered to elevate arrays clear of roof membranes and ponding water while leveling uneven flat or low-slope surfaces with a single 1/2" socket.
	Ultra Rail Tilt-Mount Kit, 5 1-2" Ultra Rail Tilt-Mount Kit, 10" Ultra Rail Tilt-Mount Kit, 14" Ultra Rail Tilt-Mount Kit, 23"	UR-TLTMT-5.5 UR-TLTMT-10 UR-TLTMT-14 UR-TLTMT-23	Heavy-duty tilt leg assemblies pre-assembled with Universal OmniBase™ and pivot Leveling Clamps. Combine varying post heights to dial in custom tilt angles for maximum solar production on flat and low-slope roofs.
	Ultra Rail Simple Tilt Front Leg 5 Deg Ultra Rail Simple Tilt Back Leg 5 Deg Portrait Ultra Rail Simple Tilt Back Leg 5 Deg Landscape	UR-STILT-FRT-5DEG UR-STILT-BACK-PRTRT-5DEG R-STILT-BACK-LSCAPE-5DEG	Direct-mounted, single-lag fixed 5° tilt system engineered for rapid installation on flat and low-slope roofs without an OmniBase™ or standoff post. Pairs the Front Leg with Portrait or Landscape Back Legs to boost energy yield and water runoff with minimal wind-load profile.