



LITE RAIL

Dual Rack Lite Rail is designed to be customizable specifically for solar PV arrays on residential projects. It is engineered for strength and durability and tested for spans up to eight feet. Dual Rack Lite Rail is compatible with all Dual Rack roof attachment products. Installers prefer Dual Rack Lite Rail because it is strong, reliable, time saving and available at the best price in the marketplace.

ADVANTAGES

- Advanced Dual Rack design
- 3 sizes rail: 12', 14' & 17' – Silver & Black
- 10 year limited warranty
- Conforms to UL STD 2703
- Class A Fire Rated – Type 1 & 2



Product Line

Item #	Product Name
LT-144-C	Lite Rail 144" - Clear (NEW)
LT-168-C	Lite Rail 168" - Clear (NEW)
LT-204-C	Lite Rail 204" - Clear (NEW)
LT-144-B	Lite Rail 144" - Black (NEW)
LT-168-B	Lite Rail 168" - Black (NEW)
LT-204-B	Lite Rail 204" - Black (NEW)

Material Specifications

Material Designation	6005-T5
Density (ρ)	168.56 lbs/ft ³
Diffusivity (λ)	200.00 W/m-°K
Modulus of Elasticity (E)	10.152E06 Psi (7,000 kN/cm ²)
Shear Modulus (G)	3.916E06 Psi (2,700 kN/cm ²)

Ordering Specifics

Standard Packaging:	6 pcs / Bundle
Dimension:	144" / 168" / 204"
Weight:	0.68 lbs / ft

Installation Guide

Install with Dual-Jack & L-foot



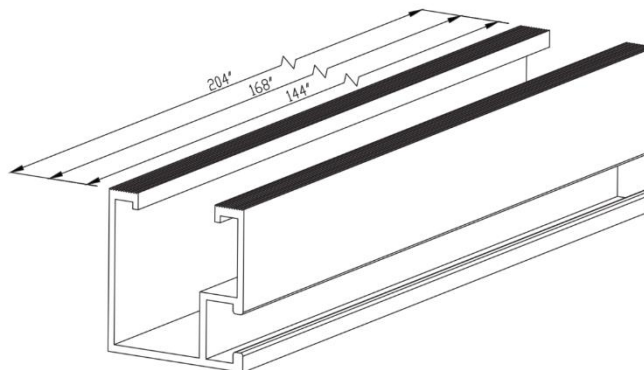
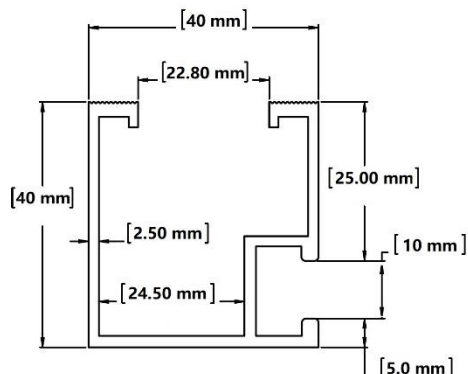
- After locating and securely installing standoff to rafter, attach L-foot with 3/8" bolt and nut to Lite Rail at desired height
- L-foot enables height adjustment up to 1.1 inches.

Install with Flash L Kit



- After locating and securely installing Flash L-Kit to rafter attach 3/8" bolt and nut to Lite Rail at desired height

Dual Rack Lite Rail



Dual Rack Lite Rail – Span Calculation

Exposure B	Ultimate Wind Speed V (mph)	Rail Type	Maximum Span Length (in.)																							
			Roof Wind Pressure Zone 1								Roof Wind Pressure Zone 2								Roof Wind Pressure Zone 3							
			Roof Snow Load (psf)								Roof Snow Load (psf)								Roof Snow Load (psf)							
			0	10	20	30	40	50	60	70	0	10	20	30	40	50	60	70	0	10	20	30	40	50	60	70
ROOFS 0° TO 7°	110	HD	145	133	122	111	97	88	80	75	140	133	122	111	97	88	80	75	114	114	114	111	97	88	80	75
		STD	116	107	94	81	71	64	59	54	102	102	94	81	71	64	59	54	82	82	82	81	71	64	59	54
		LTE	95	86	76	67	59	53	48	45	79	79	76	67	59	53	48	45	69	69	69	67	59	53	48	45
	115	HD	145	133	122	111	97	88	80	75	135	133	122	111	97	88	80	75	109	109	109	109	97	88	80	75
		STD	116	107	94	81	71	64	59	54	98	98	94	81	71	64	59	54	79	79	79	79	71	64	59	54
		LTE	93	86	76	67	59	53	48	45	77	77	76	67	59	53	48	45	67	67	67	67	59	53	48	45
	120	HD	145	133	122	111	97	88	80	75	129	129	122	111	97	88	80	75	104	104	104	104	97	88	80	75
		STD	116	107	94	81	71	64	59	54	93	93	93	81	71	64	59	54	75	75	75	75	71	64	59	54
		LTE	90	86	76	67	59	53	48	45	75	75	75	67	59	53	48	45	64	64	64	64	59	53	48	45
	130	HD	145	133	122	111	97	88	80	75	119	119	119	111	97	88	80	75	96	96	96	96	96	88	80	75
		STD	112	107	94	81	71	64	59	54	86	86	86	81	71	64	59	54	69	69	69	69	69	64	59	54
		LTE	85	85	76	67	59	53	48	45	71	71	71	67	59	53	48	45	59	59	59	59	59	53	48	45
	140	HD	142	133	122	111	97	88	80	75	110	110	110	110	97	88	80	75	89	89	89	89	89	88	80	75
		STD	104	104	94	81	71	64	59	54	79	79	79	79	71	64	59	54	64	64	64	64	64	64	59	54
		LTE	80	80	76	67	59	53	48	45	67	67	67	67	59	53	48	45	54	54	54	54	54	53	48	45
	150	HD	134	132	121	111	97	88	80	75	102	102	102	102	97	88	80	75	83	83	83	83	83	83	80	75
		STD	97	97	92	81	71	64	59	54	74	74	74	74	71	64	59	54	60	60	60	60	60	60	59	54
		LTE	77	77	76	67	59	53	48	45	63	63	63	63	59	53	48	45	51	51	51	51	51	51	48	45
	160	HD	125	125	120	110	97	88	80	75	96	96	96	96	96	88	80	75	78	78	78	78	78	78	78	75
		STD	90	90	90	80	71	64	59	54	69	69	69	69	69	64	59	54	56	56	56	56	56	56	56	54
		LTE	73	73	73	66	59	53	48	45	59	59	59	59	59	53	48	45	47	47	47	47	47	47	47	45
	170	HD	118	118	118	108	97	88	80	75	90	90	90	90	90	88	80	75	73	73	73	73	73	73	73	73
		STD	85	85	85	79	71	64	59	54	65	65	65	65	65	64	59	54	53	53	53	53	53	53	53	53
		LTE	70	70	70	65	59	53	48	45	55	55	55	55	55	53	48	45	45	45	45	45	45	45	45	45
	180	HD	111	111	111	106	97	88	80	75	85	85	85	85	85	85	80	75	69	69	69	69	69	69	69	69
		STD	80	80	80	77	70	64	59	54	61	61	61	61	61	61	59	54	50	50	50	50	50	50	50	50
		LTE	67	67	67	64	58	53	48	45	52	52	52	52	52	52	48	45	42	42	42	42	42	42	42	42
	200	HD	99	99	99	99	94	87	80	75	76	76	76	76	76	76	76	76	75	62	62	62	62	62	62	62
		STD	72	72	72	72	68	63	59	54	55	55	55	55	55	55	55	54	45	45	45	45	45	45	45	45
		LTE	61	61	61	61	57	53	48	45	47	47	47	47	47	47	47	47	45	38	38	38	38	38	38	38

- The table above ONLY includes Dual Rack rail capacity. It does not include roof attachment of roof capacity check.
- Structural risk category II per ASCE7-10.
- Wind exposure: B, C, D. Roof wind pressure region: Zone 1, Zone 2 & Zone 3.
- Maximum mean roof height is 45 ft.
- Seismic design category: A through E.
- Roof pitch is between 0 degree and 55 degree.
- Maximum solar panel weight is 50 lbs. H. Height of solar panel is between 2" and 10" to roof.



*See Exposure C and D, zone 1 & 2 & 3 span table calculation details in Installation Manual/P.E. certification.