



ROCKET RACK®

SANITARY SUPPORT SYSTEM FOR ELECTRICAL & MECHANICAL INSTALLATIONS

CATALOG



**FASTER
CLEANER
SAFER™**

PRE-ENGINEERED & FACTORY FABRICATED

www.rocket-rack.com

📞 903.680.4222

✉️ csr@robroy.com



ROCKET RACK®

SANITARY SUPPORT SYSTEM FOR ELECTRICAL & MECHANICAL INSTALLATIONS

About NSF



NSF International

Founded in 1944, NSF International is an independent, accredited organization, that tests, audits and certifies products and systems.

NSF Certification

Recognized by regulatory agencies at the local, state, federal and international level, NSF certification demonstrates that a product complies with all standard requirements. NSF conducts periodic facility audits and product testing to verify that the product continues to comply with the standard.

The NSF mark is your assurance that the product has been tested by one of the most respected independent certification organizations in existence today. It is valued by consumers, manufacturers, retailers and regulatory agencies worldwide.

The mark provides:

- * Knowledge that an impartial review against established criteria or guidelines has been conducted
- * Evidence that product labeling and claims have been objectively reviewed by a trusted third party
- * Backing by a team of professionals dedicated to public health and safety operating in more than 170 countries around the world

Robroy Industries ROCKET RACK Products have been tested and certified under the Food Safety and Quality Product/System Category to standard NSF/ANSI/3-A 14159-1.

ROCKET RACK® TENTED™ ASSEMBLY DETAILS

U.S. PATENT NO. D653,524 S

Installation of ROCKET RACK Tented Support Rack

Knowing the elevation of bottom of conduit or cable tray, cut support rods 1" longer than this elevation. The elevation of conduit or cable tray is shown on the illustration on the right as call out "B".

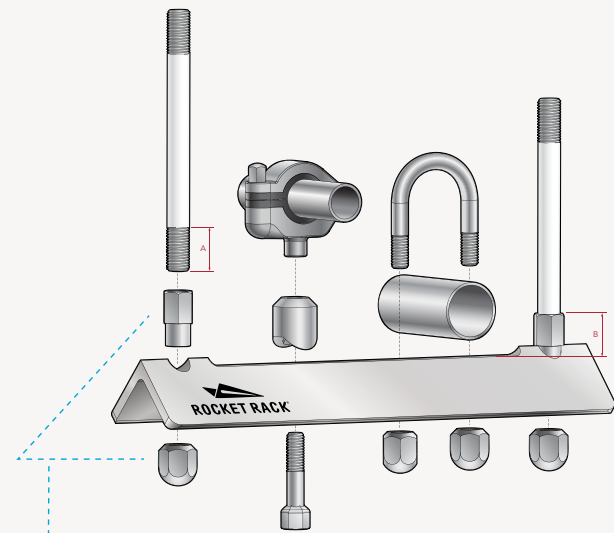
Strip off 1 7/8" of the FDA compliant encasement to reveal threads on the rod. (This strip length is shown on the illustration on the right as call out "A".) Thread the Turned Coupling onto the rod. Install Tented support rack and thread Beveled Cap Nut onto the bottom of the rod and secure wrench tight.

Note: Rod cut length of 1" longer than elevation and rod strip length of 1 7/8" is the same whether using 3/8" or 1/2" Rocket Rod.

When installing multi-tiered Tented support racks, The Beveled Cap Nut will be replaced with ROCKET RACK Beveled Rod Coupling and repeat the steps above to install each additional support rack.

These measurements make for a precise fit up with no exposed threads and maintain a proper hygienic install.

ROCKET RACK Tented is ideally suited for use with rigid conduit—Stainless, aluminum or galvanized steel—anchored with ROCKET RACK Stainless U-Bolts. Please note that when using thin-walled tubing or coated conduit we recommend standing off the rack with ROCKET Standoff™ and a sanitary clamp (each sold separately—See ROCKET RACK Stainless Hardware). ROCKET RACK Tented supplied with specially-designed mounting hardware. All other items sold separately.



Specially-designed stainless mounting hardware supplied with tented angle, one set per mounting hole. (2 Beveled Cap Nuts and 2 Turned Rod Couplings) Please specify rod size – 3/8" or 1/2"

LOAD RATINGS

ATTENTION

The ROCKET RACK® slots are to be used for securing conduit and process pipe fasteners (U-Bolts, ROCKET STANDOFF™, Sanitary Clamps, etc.) only. The proprietary slot is NOT to be used as a means of installing the ROCKET RACK itself. The ROCKET RACK should be installed using only the mounting holes provided.

ROCKET RACK FLAT is for WALL MOUNT and POST MOUNT ONLY!

ROCKET RACK is a pre-engineered product. Do not attempt to cut or alter the ROCKET RACK product in any way. The load ratings provided in this document only apply to unaltered ROCKET RACK products. Robroy Industries, dba ROCKET RACK disclaims all potential liability that may result from improper installation of the ROCKET RACK product or from cutting the rack or changing the size of the slot or mounting holes. You agree to indemnify and hold Robroy Industries harmless from any loss, damage, claim, cost, or expense incurred or suffered by Robroy Industries relating to any ROCKET RACK product that you improperly installed or altered in any way.

Manufacturing the patented ROCKET RACK Conduit and Pipe Support Racks without the permission of Robroy Industries (by license or waiver) constitutes infringement and will expose the unauthorized user AND manufacturer to liability under U.S. Patent Law. Robroy Industries respects intellectual property rights and expects to have its rights respected. Robroy Industries has invested considerable resources in protecting its intellectual property and fully intends to vigorously protect these assets against any infringement or other unlawful actions.

ROCKET RACK U.S. Patents: D608,183 S, D599,194 S, D599,193 S, D653,524 S & D649,863 S and patents pending.



ROCKET RACK®

SANITARY SUPPORT SYSTEM FOR ELECTRICAL & MECHANICAL INSTALLATIONS

ROCKET RACK® TENTED™

U.S. PATENT NO. D653,524 S

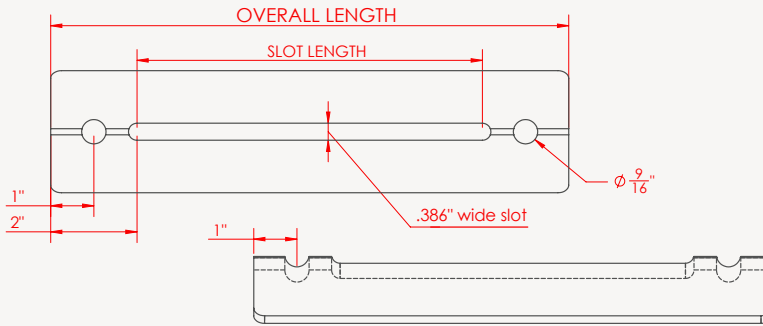


- These slots and mounting holes are centered on the heel of the angle.
- Loads on these tables are based on utilizing the outside mounting holes.
- Load ratings are based on an allowable stress equal to 60% of the material's Yield Stress, however it is suggested that the loads in the tables be reduced by a Factor of Safety of 2 for safe performance.

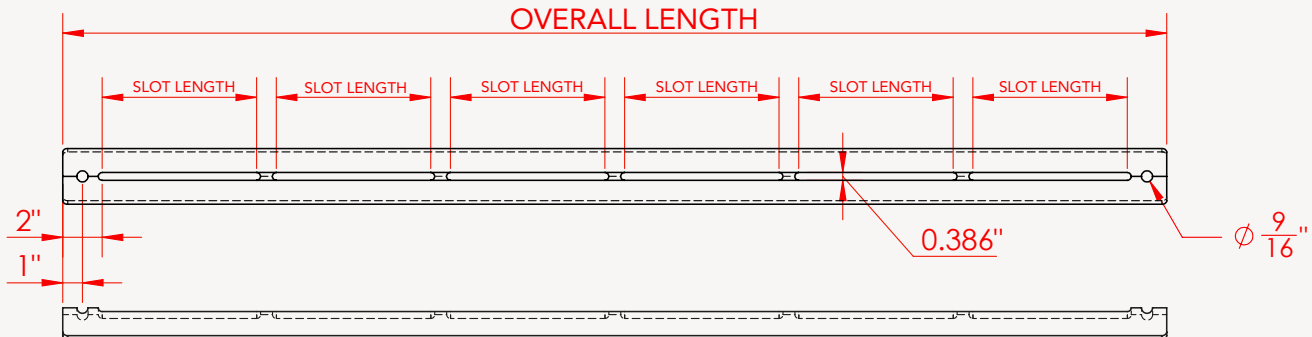
LOAD RATINGS ARE LISTED FOR TWO MATERIALS HAVING THE FOLLOWING PROPERTIES:

Material	Yield Stress (KSI)	Mod of Elasticity (KSI)
304/316 Stainless Steel	30	28100
6061-T6 Aluminum	37	10000

1 SLOT TENTED™



6 SLOT TENTED™



ROCKET RACK® TENTED™

U.S. PATENT NO. D653,524 S



SECTION PROPERTIES OF REDUCED SECTION FOR LOAD AND DEFLECTION RATING

Area	Moment of Inertia	Min. Section Mod.	Radius of Gyration
(lbs.)	(in.^4)	(in.^3)	(in.)
0.7392	0.0693	0.1133	0.3061

ROCKET RACK® TENTED™

Tented™ 304 & 316 Stainless 2x2x1/4

PART NUMBER	Overall	Max Point	Deflection	L/240	L/360	Max. Dist.	Deflection	L/240	L/360
	Length	Load (LB)	(IN)	(LB)	(LB)	Load (LB)	(IN)	(LB)	(LB)
RRTNT30412 RRTNT31612	12"	816	0.0087	3892	2595	1632	0.0109	6227	4152
RRTNT30414 RRTNT31614	14"	680	0.0126	2703	1802	1360	0.0157	4324	2883
RRTNT30416 RRTNT31616	16"	583	0.0171	1986	1324	1166	0.0214	3177	2118
RRTNT30418 RRTNT31618	18"	510	0.0224	1520	1014	1020	0.0280	2433	1622
RRTNT30420 RRTNT31620	20"	453	0.0283	1201	801	907	0.0354	1922	1281
RRTNT30422 RRTNT31622	22"	408	0.0349	973	649	816	0.0437	1557	1038
RRTNT30424 RRTNT31624	24"	371	0.0423	804	536	742	0.0528	1287	858
RRTNT30426 RRTNT31626	26"	340	0.0503	676	450	680	0.0629	1081	721
RRTNT30428 RRTNT31628	28"	314	0.0590	576	384	628	0.0738	921	614
RRTNT30430 RRTNT31630	30"	291	0.0685	496	331	583	0.0856	794	530
RRTNT30432 RRTNT31632	32"	272	0.0786	432	288	544	0.0983	692	461
RRTNT30434 RRTNT31634	34"	255	0.0894	380	253	510	0.1118	608	405
RRTNT30436 RRTNT31636	36"	240	0.1010	337	224	480	0.1262	539	359
RRTNT30438 RRTNT31638	38"	227	0.1132	300	200	453	0.1415	480	320
RRTNT30440 RRTNT31640	40"	215	0.1261	270	180	429	0.1577	431	288
RRTNT30442 RRTNT31642	42"	204	0.1398	243	162	408	0.1747	389	259
RRTNT30444 RRTNT31644	44"	194	0.1541	221	147	389	0.1926	353	235
RRTNT30446 RRTNT31646	46"	185	0.1691	201	134	371	0.2114	322	214
RRTNT30448 RRTNT31648	48"	177	0.1848	184	123	355	0.2310	294	196
RRTNT30450 RRTNT31650	50"	170	0.2013	169	113	340	0.2516	270	180
RRTNT30452 RRTNT31652	52"	163	0.2184	156	104	326	0.2730	249	166
RRTNT30454 RRTNT31654	54"	157	0.2362	144	96	314	0.2952	230	154
RRTNT30456 RRTNT31656	56"	151	0.2547	133	89	302	0.3184	214	142
RRTNT30458 RRTNT31658	58"	146	0.2739	124	83	291	0.3424	199	132
RRTNT30460 RRTNT31660	60"	141	0.2938	116	77	281	0.3673	185	123

- These slots and mounting holes are centered on peak or heel of the angle.
- Loads on these tables are based on utilizing the outside mounting holes.
- Custom designed rack load ratings can be provided at request if designed within ROCKET RACK engineering parameters.

- Load rating are based on ASD, 9th Edition, Section F1, however it is suggested that the loads in the tables be reduced by a Factor of Safety of 2 for safe performance.
- For slot dimensions and placement, Call ROCKET RACK® 903.680.4222

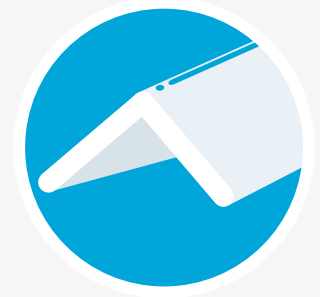


ROCKET RACK®

SANITARY SUPPORT SYSTEM FOR ELECTRICAL & MECHANICAL INSTALLATIONS

ROCKET RACK® TENTED™

U.S. PATENT NO. D653,524 S



SECTION PROPERTIES OF REDUCED SECTION FOR LOAD AND DEFLECTION RATING

Area (lbs.)	Moment of Inertia (in. ⁴)	Min. Section Mod. (in. ³)	Radius of Gyration (in.)
0.7392	0.0693	0.1133	0.3061

ROCKET RACK® TENTED™

Tented™ 6061-T6 Aluminum 2x2x1/4

PART NUMBER	Overall	Max Point	Deflection	L/240	L/360	Max. Dist.	Deflection	L/240	L/360
	Length	Load (LB)	(IN)	(LB)	(LB)	Load (LB)	(IN)	(LB)	(LB)
RRTNTALU12	12"	1006	0.0303	1385	923	2013	0.0378	2216	1477
RRTNTALU14	14"	839	0.0436	962	641	1677	0.0545	1539	1026
RRTNTALU16	16"	719	0.0593	707	471	1438	0.0742	1131	754
RRTNTALU18	18"	629	0.0775	541	361	1258	0.0969	866	577
RRTNTALU20	20"	559	0.0981	427	285	1118	0.1226	684	456
RRTNTALU22	22"	503	0.1211	346	231	1006	0.1514	554	369
RRTNTALU24	24"	457	0.1465	286	191	915	0.1832	458	305
RRTNTALU26	26"	419	0.1744	240	160	839	0.218	385	256
RRTNTALU28	28"	387	0.2046	205	137	774	0.2558	328	219
RRTNTALU30	30"	359	0.2373	177	118	719	0.2967	283	188
RRTNTALU32	32"	335	0.2725	154	103	671	0.3406	246	164
RRTNTALU34	34"	314	0.31	135	90	629	0.3875	216	144
RRTNTALU36	36"	296	0.35	120	80	592	0.4375	192	128
RRTNTALU38	38"	280	0.3923	107	71	559	0.4904	171	114
RRTNTALU40	40"	265	0.4371	96	64	530	0.5464	153	102
RRTNTALU42	42"	252	0.4844	87	58	503	0.6055	139	92
RRTNTALU44	44"	240	0.534	79	52	479	0.6675	126	84
RRTNTALU46	46"	229	0.5861	72	48	457	0.7326	114	76
RRTNTALU48	48"	219	0.6406	65	44	438	0.8007	105	70
RRTNTALU50	50"	210	0.6975	60	40	419	0.8719	96	64
RRTNTALU52	52"	201	0.7568	55	37	403	0.946	89	59
RRTNTALU54	54"	194	0.8186	51	34	387	1.0232	82	55
RRTNTALU56	56"	186	0.8828	47	32	373	1.1034	76	51
RRTNTALU58	58"	180	0.9494	44	29	359	1.1867	71	47
RRTNTALU60	60"	174	1.0184	41	27	347	1.273	66	44

- These slots and mounting holes are centered on peak or heel of the angle.
- Loads on these tables are based on utilizing the outside mounting holes.
- Custom designed rack load ratings can be provided at request if designed within ROCKET RACK engineering parameters.
- Load rating are based on ASD, 9th Edition, Section F1, however it is suggested that the loads in the tables be reduced by a Factor of Safety of 2 for safe performance.
- For slot dimensions and placement, Call ROCKET RACK® 903.680.4222



ROCKET RACK®

SANITARY SUPPORT SYSTEM FOR ELECTRICAL & MECHANICAL INSTALLATIONS

ROCKET RACK® TENTED™ ANGLE

U.S. PATENT NO. D653,524 S



SECTION PROPERTIES OF REDUCED SECTION FOR LOAD AND DEFLECTION RATING

Area	Moment of Inertia	Min. Section Mod.	Radius of Gyration
(lbs.)	(in.^4)	(in.^3)	(in.)
1.2392	0.3204	0.3321	0.5085

TENTED™ ANGLE ROCKET RACK®

Tented™ 304 Stainless 3x3x1/4

PART NUMBER	Overall	Max Point	Deflection	L/240	L/360	Max. Dist.	Deflection	L/240	L/360
	Length	Load (LB)	(IN)	(LB)	(LB)	Load (LB)	(IN)	(LB)	(LB)
RR3TNT30436 RR3TNT31636	36"	703	0.0640	1558	1038	1407	0.0800	2492	1662
RR3TNT30438 RR3TNT31638	38"	664	0.0717	1389	926	1329	0.0896	2223	1482
RR3TNT30440 RR3TNT31640	40"	629	0.0799	1247	831	1259	0.0999	1995	1330
RR3TNT30442 RR3TNT31642	42"	598	0.0885	1125	750	1196	0.1107	1801	1200
RR3TNT30444 RR3TNT31644	44"	569	0.0976	1021	681	1139	0.1220	1633	1089
RR3TNT30446 RR3TNT31646	46"	544	0.1071	930	620	1087	0.1339	1488	992
RR3TNT30448 RR3TNT31648	48"	520	0.1171	851	567	1040	0.1464	1362	908
RR3TNT30450 RR3TNT31650	50"	498	0.1275	782	521	996	0.1594	1250	834
RR3TNT30452 RR3TNT31652	52"	478	0.1383	720	480	957	0.1729	1152	768
RR3TNT30454 RR3TNT31654	54"	460	0.1496	666	444	920	0.1879	1066	710
RR3TNT30456 RR3TNT31656	56"	443	0.1614	618	412	886	0.2017	988	659
RR3TNT30458 RR3TNT31658	58"	427	0.1735	574	383	854	0.2169	919	612
RR3TNT30460 RR3TNT31660	60"	412	0.1862	535	357	825	0.2327	856	571
RR3TNT30462 RR3TNT31662	62"	399	0.1992	500	333	797	0.249	800	534
RR3TNT30464 RR3TNT31664	64"	386	0.2127	468	312	771	0.2659	750	500
RR3TNT30466 RR3TNT31666	66"	374	0.2267	440	293	747	0.2833	703	469
RR3TNT30468 RR3TNT31668	68"	362	0.241	413	276	725	0.3013	661	441
RR3TNT30470 RR3TNT31670	70"	352	0.2559	389	260	703	0.3198	623	415
RR3TNT30472 RR3TNT31672	72"	342	0.2711	367	245	683	0.3389	588	392

- These slots and mounting holes are centered on peak or heel of the angle.
- Loads on these tables are based on utilizing the outside mounting holes.

- Load rating are based on ASD, 9th Edition, Section F1, however it is suggested that the loads in the tables be reduced by a Factor of Safety of 2 for safe performance.
- For slot dimensions and placement, Call ROCKET RACK® 903.680.4222

ROCKET RACK® TENTED™ ANGLE

U.S. PATENT NO. D653,524 S



SECTION PROPERTIES OF REDUCED SECTION FOR LOAD AND DEFLECTION RATING

Area (lbs.)	Moment of Inertia (in. ⁴)	Min. Section Mod. (in. ³)	Radius of Gyration (in.)
1.2392	0.3204	0.3321	0.5085

TENTED™ ANGLE ROCKET RACK®

Tented™ 6061-T6 Aluminum 3x3x1/4

PART NUMBER	Overall	Max Point	Deflection	L/240	L/360	Max. Dist.	Deflection	L/240	L/360
	Length	Load (LB)	(IN)	(LB)	(LB)	Load (LB)	(IN)	(LB)	(LB)
RR3TNTALU36	36"	867	0.2217	554	370	1735	0.2771	887	591
RR3TNTALU38	38"	819	0.2485	494	330	1639	0.3107	791	527
RR3TNTALU40	40"	776	0.2769	444	296	1552	0.3462	710	473
RR3TNTALU42	42"	737	0.3068	401	267	1475	0.3836	641	427
RR3TNTALU44	44"	702	0.3383	363	242	1405	0.4229	581	387
RR3TNTALU46	46"	670	0.3713	331	221	1341	0.4641	530	353
RR3TNTALU48	48"	641	0.4058	303	202	1282	0.5073	485	323
RR3TNTALU50	50"	614	0.4419	278	185	1229	0.5523	445	297
RR3TNTALU52	52"	590	0.4794	256	171	1180	0.5993	410	273
RR3TNTALU54	54"	567	0.5186	237	158	1134	0.6482	379	253
RR3TNTALU56	56"	546	0.5592	220	147	1092	0.699	352	234
RR3TNTALU58	58"	527	0.6014	204	136	1053	0.7518	327	218
RR3TNTALU60	60"	509	0.6451	190	127	1017	0.8064	305	203
RR3TNTALU62	62"	492	0.6904	178	119	983	0.863	285	190
RR3TNTALU64	64"	476	0.7372	167	111	951	0.9215	267	178
RR3TNTALU66	66"	461	0.7855	156	104	922	0.9819	250	167
RR3TNTALU68	68"	447	0.8354	147	98	894	1.0442	235	157
RR3TNTALU70	70"	434	0.8868	139	92	867	1.1085	222	148
RR3TNTALU72	72"	421	0.9402	131	87	842	1.1752	209	139

- These slots and mounting holes are centered on peak or heel of the angle.
- Loads on these tables are based on utilizing the outside mounting holes.

- Load rating are based on ASD, 9th Edition, Section F1, however it is suggested that the loads in the tables be reduced by a Factor of Safety of 2 for safe performance.
- For slot dimensions and placement, Call ROCKET RACK® 903.680.4222