

SS 40[®] – High Strength Fence Framework

For Heavy Commercial, Industrial and High Security Applications

Allied Tube & Conduit, with an engineering breakthrough in pipe manufacturing and corrosion resistant coating, has developed the most specified and the most requested framework in the fencing industry.

SS 40 is manufactured with cold-formed steel which provides a high yield strength, followed by a uniform triple layer of corrosion protection. Using Allied's patented Flo-Coat[®] process consisting of zinc, conversion coatings, and a clear organic top coat applied in-line. SS 40 is up to 37% stronger and as much as 21% lighter than Schedule 40 pipe.

The high yield strength 50,000 PSI steel and the triple coat of locked-in protection, results in pipe that not only out-performs Schedule 40 pipe in strength and corrosion resistance, but maintains its lustrous appearance in the most severe atmospheric conditions. SS 40 is clearly the industry leader.

Specifying Agencies

Agencies which have approved SS 40.

- (AASHTO) American Associations of State Highway and Transportation Officials M181-93
- Federal Specifications RR-F-191/3E (Chain Link Fence Posts, Top Rails and Braces)
- Unified Facilities Guide Specification for High Security (Department of Defense)
- Unified Facilities Guide Specification for Chain Link Fence (Department of Defense)
- Department of Transportation Federal Aviation Administration AC 150/5370-10A Item F-162
- U.S. Department of Justice - Federal Bureau of Prisons
- ASTM Specification F1043-10 Standard Specification for Strength and Protective Coatings Group IC

Certification

"Made in U.S.A." is proudly displayed on every length of SS 40 pipe. Allied will certify that all SS 40 fence pipe is manufactured in the USA and is in compliance with applicable Federal, State and local specifications, and the Unified Security Guide for High Security. Available in super long 38ft. lengths, and in Polykote Polyester color coats.



Allied SS 40 vs. Schedule 40

Type	Outside Dimensions (in.)	Pipe Wall Thickness (in.)	Weight (lbs./ft)	Section Modulus (inches ³)	Yield Strength (PSI)	Bending Moment (lbs. in.)	Bending Strength (lbs.)	
Posts							6' Cantilever Load	
1-7/8" O.D.	SS 40	1.900	.120	2.28	0.2810	50,000	14,050	195
1-7/8" O.D.	Sch 40	1.900	.145	2.72	0.3262	30,000	9,786	136
2-3/8" O.D.	SS 40	2.375	.130	3.12	0.4881	50,000	24,405	339
2-3/8" O.D.	Sch 40	2.375	.154	3.65	0.5606	30,000	16,818	234
2-7/8" O.D.	SS 40	2.875	.160	4.64	0.8778	50,000	43,890	610
2-7/8" O.D.	Sch 40	2.875	.203	5.79	1.0640	30,000	31,920	443
3-1/2" O.D.	SS 40	3.500	.160	5.71	1.3408	50,000	67,040	931
3-1/2" O.D.	Sch 40	3.500	.216	7.58	1.7241	30,000	51,723	718
4" O.D.	SS 40	4.000	.160	6.56	1.7819	50,000	89,095	1237
4" O.D.	Sch 40	4.000	.226	9.11	2.3940	30,000	71,820	998
4-1/2" O.D.	SS 40	4.500	.160	7.42	2.2859	50,000	114,295	1587
4-1/2" O.D.	Sch 40	4.500	.226	10.80	3.2145	30,000	96,435	1389
Top Rail								10' Free Supported
1-3/8" O.D.	SS 40	1.315	.104	1.35	0.1110	50,000	5,556	185
1-3/8" O.D.	Sch 40	1.315	.133	1.68	0.1328	30,000	3,985	133
1-5/8" O.D.	SS 40	1.660	.111	1.84	0.1961	50,000	9,805	327
1-5/8" O.D.	Sch 40	1.660	.140	2.27	0.2350	30,000	7,050	235