

Full-weight Hot-dip Galvanized

# ASTM F1083 Schedule 40 Pipe



## Schedule 40 per ASTM F1083

Wheatland Tube's F1083 is the original specified fence framework used for commercial, industrial and high-security applications. Wheatland is the leading supplier of ASTM F1083 full-weight Schedule 40 domestic fence framework. Wheatland manufactures all F1083 grades: Regular Grade 30,000 psi, High Strength 50,000 psi and Schedule 80. When the specification requires Schedule 40 pipe, Wheatland's F1083 is the clear choice. Our ISO 9001 certified CW facility produces the finest Schedule 40 products in the world and is supported by over 130 years of experience delivering prompt, knowledgeable and personalized service.

- Meets or exceeds the requirements of ASTM F1083
- Meets or exceeds the requirements of ASTM F1043, Group 1A
- Full-weight Schedule 40 wall thickness
- Pure zinc hot-dip galvanized 1.8 oz./ft<sup>2</sup> outside, and 1.8 oz./ft<sup>2</sup> inside (2.0 oz./ft<sup>2</sup> also available)
- The only Schedule 40 pipe coated with virtually lead-free galvanization
- Most extensive size range of any fence framework product, 1 $\frac{3}{8}$ "-8 $\frac{3}{4}$ " OD

## Certification

Wheatland Tube will certify that all Wheatland F1083 fence pipe is manufactured in the USA and is in compliance with applicable local, state and federal specifications. "WHEATLAND USA ASTM F1083" is proudly displayed on each length of F1083 pipe.

## Specifying Agencies

- American Association of State Highway and Transportation Officials (AASHTO) M181—Grade 1
- Federal specifications RR-F-191/2E and RR-F-191/3E
- U.S. Army Corps of Engineers UFGS-32 31 13
- Department of the Navy
- Department of Transportation
- Federal Aviation Administration AC 150/5370-10 Item 162
- U.S. Department of Justice—Federal Bureau of Prisons
- ASTM Specification F1043, Group 1A, Standard Specification for Strength and Protective Coatings
- ASTM Specification F1083
- American Institute of Architects (AIA) MasterSpec®

## ASTM F1083 REGULAR GRADE 30,000 PSI YIELD SCHEDULE 40 PIPE – DIMENSIONS AND STRENGTH CHARACTERISTICS

FENCE INDUSTRY	DECIMAL OD EQUIVALENT		PIPE WALL THICKNESS		WEIGHT		SECTION MODULUS		X	MIN. YIELD STRENGTH		=	MAX. BENDING MOMENT lbs./in.	CALCULATED LOAD (LBS.)		
	OD	in.	mm	in.	mm	lbs./ft.	kg/m	in. <sup>3</sup>		mm <sup>3</sup>	psi			MPa	10' Free Supported	Cantilever
														4'	6'	
1 3/8"	1.315	33.40	0.133	3.38	1.68	2.50	0.1328	3.37	x	30000	205	=	3985	133	83	55
1 1/2"	1.660	42.16	0.140	3.56	2.27	3.38	0.2346	5.96	x	30000	205	=	7038	235	147	98
1 5/8"	1.900	48.26	0.145	3.68	2.72	4.05	0.3262	8.29	x	30000	205	=	9786	326	204	136
2 3/8"	2.375	60.33	0.154	3.91	3.65	5.43	0.5606	14.24	x	30000	205	=	16819	561	350	234
2 1/2"	2.875	73.03	0.203	5.16	5.80	8.62	1.0640	27.03	x	30000	205	=	31921	1064	665	443
3 1/2"	3.500	88.90	0.216	5.49	7.58	11.28	1.7241	43.79	x	30000	205	=	51723	1724	1078	718
4"	4.000	101.60	0.226	5.74	9.12	13.56	2.3939	60.80	x	30000	205	=	71816	2394	1496	997
4 1/2"	4.500	114.30	0.237	6.02	10.80	16.07	3.2145	81.65	x	30000	205	=	96435	3214	2009	1399
*5 5/16"	5.563	141.30	0.258	6.55	14.63	21.77	5.4511	138.46	x	35000	240	=	190789	6359	3975	2650
*6 5/8"	6.625	168.28	0.280	7.11	18.99	28.23	8.4958	215.79	x	35000	240	=	297353	9912	6195	4130
*8 5/8"	8.625	219.08	0.322	8.18	28.58	42.49	16.8091	426.95	x	35000	240	=	588319	19610	12257	8171

*\*Manufactured to ASTM A53 specifications; exceeds F1083 requirements.*

## ASTM F1083 HIGH STRENGTH GRADE 50,000 PSI YIELD SCHEDULE 40 PIPE – DIMENSIONS AND STRENGTH CHARACTERISTICS

FENCE INDUSTRY	DECIMAL OD EQUIVALENT		PIPE WALL THICKNESS		WEIGHT		SECTION MODULUS		X	MIN. YIELD STRENGTH		=	MAX. BENDING MOMENT lbs./in.	CALCULATED LOAD (LBS.)		
	OD	in.	mm	in.	mm	lbs./ft.	kg/m	in. <sup>3</sup>		mm <sup>3</sup>	psi			MPa	10' Free Supported	Cantilever
														6'	15'	
1 1/2"	1.660	42.16	0.140	3.56	2.27	3.38	0.2346	5.96	x	50000	345	=	11730	392	163	65
1 5/8"	1.900	48.26	0.145	3.68	2.72	4.05	0.3262	8.29	x	50000	345	=	16310	543	227	91
2 3/8"	2.375	60.33	0.154	3.91	3.65	5.43	0.5606	14.24	x	50000	345	=	28030	935	389	156
2 1/2"	2.875	73.03	0.203	5.16	5.80	8.62	1.0640	27.03	x	50000	345	=	53200	1773	739	296
3 1/2"	3.500	88.90	0.216	5.49	7.58	11.28	1.7241	43.79	x	50000	345	=	86205	2873	1197	479
4 1/2"	4.500	114.30	0.237	6.02	10.80	16.07	3.2145	81.65	x	50000	345	=	160725	5357	2232	893
5 5/16"	5.563	141.30	0.258	6.55	14.63	21.77	5.4511	138.46	x	50000	345	=	272555	9085	3785	1514
6 5/8"	6.625	168.28	0.280	7.11	18.99	28.23	8.4958	215.79	x	50000	345	=	424790	14160	5900	2360
8 5/8"	8.625	219.08	0.322	8.18	28.58	42.49	16.8091	426.95	x	50000	345	=	840455	28015	11673	4669

*Please contact Fence Sales for mill run schedule. Minimum order quantities may be required.*

*Specifications, illustrated material and descriptions are accurate as known at time of publication and are subject to change without notice.*

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