

ASTM F1083 Schedule 80 Pipe

Submittal Data Sheet

Scope

This submittal data sheet covers ASTM F1083 hot-dipped galvanized schedule 80 welded steel pipe for fence structures. The accompanying tables show the dimensions, wall thickness, weight per linear foot, and strength characteristics.

Hot-Dipped Galvanized

Pipe shall be coated inside and out by the hot-dip process. The average weight of zinc coating shall be not less than 1.8 oz/ft² of the outside surface and 1.8 oz/ft² of the inside surface. A 2.0 oz/ft² zinc coating weight is available upon request. A conversion coating is also applied to the interior and exterior surfaces to protect against corrosion and white rust.

Wheatland’s zinc coating is virtually lead free.

End Finish

End finish shall be plain end square cut.

Posts and rails shall be one piece free of welded sections.

Tensile Requirements

Tensile Strength, min. 48000 psi
Yield Strength, min. 30000 psi

Permissible Variations in Wall Thickness

Minimum wall thickness at any point shall not be more than 12.5% under nominal wall thickness specified.

Permissible Variations in Outside Diameter

1.900" O.D. and under + 0.016"-0.031"
2.375" O.D. and over ± 1%

Wheatland offers the most extensive size range of any fence framework manufacturer.

Permissible Variations in Weight Per Foot

Pipe shall not vary more than ± 10% from the standard specified.

Product Marking

Each length of pipe 1.315" O.D. and larger is continuously stenciled as follows:

Wheatland, USA, Size, Schedule 80, ASTM F1083, 1.8 oz. or 2.0 oz., Grade, Length, Run #, and Date

Bar coding is acceptable as a supplementary identification method.

Wheatland F1083 Schedule 80 Galvanized Pipe meets or exceeds the following specifications:

- American Association of State Highway and Transportation Officials AASHTO M 181—Grade 1
- Federal specifications RR-F-191/2E and RR-F-191/3E
- Army Corps of Engineers UFGS-32 31 13
- Federal Aeronautics Administration AC 150/5370-10 Item 162
- Department of the Navy
- American Society of Testing and Materials International ASTM F1083
- U.S. Department of Justice—Federal Bureau of Prisons

SUBMITTAL INFORMATION

PROJECT:

CONTRACTOR:

DATE:

ENGINEER:

SPECIFICATION REFERENCE:

SYSTEM TYPE:

LOCATIONS:

COMMENTS:



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ASTM F1083 Regular Grade 30,000 PSI Yield Schedule 80 Pipe — Dimensions and Strength Characteristics

FENCE INDUSTRY	DECIMAL OD EQUIVALENT		PIPE WALL THICKNESS		WEIGHT		SECTION MODULUS		X	MIN. YIELD STRENGTH		=	MAX. BENDING MOMENT	CALCULATED LOAD (LBS.)			
	OD	in.	(mm)	in.	(mm)	lb./ft.	(kg/m)	in. ³		(mm ³)	psi			(MPa)	lb./in.	10' Free Supported	Cantilever
															4'	6'	
	1 3/8"	1.315	33.40	0.179	4.55	2.17	3.23	0.1606	4.08	x	30000	205	=	4819	161	100	67
	1 5/8"	1.660	42.16	0.191	4.85	3.00	4.46	0.2913	7.40	x	30000	205	=	8739	291	182	121
	1 7/8"	1.900	48.26	0.200	5.08	3.63	5.40	0.4118	10.46	x	30000	205	=	12354	412	257	172
	2 3/8"	2.375	60.33	0.218	5.54	5.03	7.49	0.7309	18.56	x	30000	205	=	21926	731	457	305
	2 7/8"	2.875	73.03	0.276	7.01	7.67	11.41	1.3386	34.00	x	30000	205	=	40158	1339	837	558
	3 1/2"	3.500	88.90	0.300	7.62	10.26	15.27	2.2253	56.52	x	30000	205	=	66760	2225	1391	927
	4"	4.000	101.60	0.318	8.08	12.52	18.63	3.1401	79.76	x	30000	205	=	94202	3140	1963	1308
	4 1/2"	4.500	114.30	0.337	8.56	15.00	22.32	4.2713	108.49	x	30000	205	=	128140	4271	2670	1780

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

WFE-020617



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