

# 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/ft<sup>2</sup> of the outside surface and 1.8 oz/ft<sup>2</sup> of the inside surface. A 2.0 oz/ft<sup>2</sup> 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:

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CONTRACTOR:

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DATE:

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ENGINEER:

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SPECIFICATION REFERENCE:

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SYSTEM TYPE:

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LOCATIONS:

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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. <sup>3</sup>		(mm <sup>3</sup> )	psi			(MPa)	10' Free Supported	Cantilever	
															4'	6'	
	1½"	1.315	33.40	0.179	4.55	2.17	3.23	0.1606	4.08	x	30000	205	=	4819	161	100	67
	1¾"	1.660	42.16	0.191	4.85	3.00	4.46	0.2913	7.40	x	30000	205	=	8739	291	182	121
	1⅞"	1.900	48.26	0.200	5.08	3.63	5.40	0.4118	10.46	x	30000	205	=	12354	412	257	172
	2⅜"	2.375	60.33	0.218	5.54	5.03	7.49	0.7309	18.56	x	30000	205	=	21926	731	457	305
	2½"	2.875	73.03	0.276	7.01	7.67	11.41	1.3386	34.00	x	30000	205	=	40158	1339	837	558
	3½"	3.500	88.90	0.300	7.62	10.26	15.27	2.2253	56.52	x	30000	205	=	66760	2225	1391	927
	4½"	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.

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