



WHEATLAND TUBE COMPANY

SUBMITTAL DATA

12/12/06

Wheatland HS-50K High Security High Strength Fence Post

SCOPE

This submittal sheet covers hot-dipped galvanized welded steel schedule 40 pipe per ASTM F 1083-06 Intermediate Grade, 50,000 psi yield steel, in pipe sizes 6.625 and 8.625 inch O.D. with nominal wall thickness as listed in the table below. HS-50K pipe is intended for use with solid fences, high security fences containing small security mesh openings having substantial wind resistance and extra strength requirements for Homeland Security applications. Wheatland's HS-50K fence pipe is 1.67 stronger than Regular Grade F1083-06.

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 surface (inside and outside). 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 them against corrosion and white rust.

Wheatland's zinc coating is virtually lead free and meets the lead free requirements of the EPA Safe Drinking Water Act

FINISH

End finish shall be plain end square cut.
Posts and rails shall be one piece free of welded sections.

TENSILE REQUIREMENTS

Yield Strength, min . 50 000 psi
Tensile Strength, min. 60 000 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

NPS 2 and over ± 1%

PERMISSIBLE VARIATIONS IN WEIGHT PER FOOT

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

PRODUCT MARKING

Each length of pipe is continuously stenciled as follows:
Wheatland, USA, ERW, ASTM F1083, Size, Schedule 40, IS 50000, Length, Run #, Date, 1.8 oz. or 2.0 oz.
Stencil shall include IS 50000 for Intermediate Strength Grade when applicable. Bar Coding is acceptable as a supplementary identification method.

Wheatland HS-50K meets or exceeds the following specifications:

ASTM Specification F1083-06 Intermediate Strength, 50,000 yield, Grade and F1043 Group IA
American Association of State Highway and Transportation Officials AASHTO M181
Federal Specifications RR-F-191/2E and RR-F-191/3E
Army Corps of Engineers UFGS-32 31 00.00 10 (April 2006)
Federal Aeronautics Administration AC 150/5370-10B Item F-162
Department of the Navy
U.S. Department of Justice – Federal Bureau of Prisons
American Institute of Architects (AIA) MASTERSPEC

Wheatland HS-50K Dimensions and Strength Characteristics

Fence Industry	Decimal O.D. Equivalent		Pipe wall Thickness		Weight		Section Modulus		x	Min. Yield Strength	=	Max Bending Moment	Calculated Load (lbs)			
	O.D.	inches (mm)	inches (mm)	lb/ft (kg/m)	inches (mm)	x	psi (MPa)	=					lb/in.	10' Free Supported	6'	15'
6 5/8"	6.625	168.3	0.280	7.11	18.99	28.3	8.496	215.79	x	50000	344	=	424790	14160	5900	2360
8 5/8"	8.625	219.1	0.322	8.18	28.58	42.5	16.809	426.95	x	50000	344	=	840457	28015	11673	4669

All information contained herein is accurate as known at the time of publication. Wheatland reserves the right to change product specifications without notice and without incurring obligations.

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