Lakeside Supply Company 216-941-6800



Black and Galvanized Steel Pipe

Wheatland Steel Pipe is made by specialists who understand that it's the small details that make the difference between average products and superior products. At the Wheatland Plant, most department heads and foremen have been employed in some phase of pipe manufacturing for 25 or more years.

This kind of specialization, experience and knowledge pays off . . . in workable, threadable, uniform pipe. Delivered clean. Delivered promptly.

Wheatland specializes in manufacturing welded steel pipe in 1/2" through 4" nominal sizes. Available inventory in 1/8" to 12" pipe sizes produced to various ASTM standards is maintained to meet your pipe requirements. Care, pride and personal concern are bonus features that go into every inch of Wheatland Pipe. Don't settle for less.

Make sure it's quality. Make sure it's Wheatland.

Standard and Extra Strong Welded Steel Pipe

Specifications			Standard Pipe	Schedule 40	Extra Strong Pipe Schedule 80				
	Outside	Outside Inside		Weight pe	r foot (lbs.)	Inside	Wall	Plain End	
Nominal	Diameter	Diameter	Thickness		Threads &	Diameter	Thickness	Weight	
Pipe Size	(inches)	(inches)	(inches)	Plain End	Couplings	(inches)	(inches)	per ft. (lbs.)	
1/8"	.405	.269	.068	.24	.24	.215	.095	.31	
1/4"	.540	.364	.088	.42	.42	.302	.119	.54	
3/8"	.675	.493	.091	.57	.57	.423	.126	.74	
1/2"	.840	.622	.109	.85	.85	.546	.147	1.09	
3/4"	1.050	.824	.113	1.13	1.13	.742	.154	1.47	
1"	1.315	1.049	.133	1.68	1.68	.957	.179	2.17	
1-1/4"	1.660	1.380	.140	2.27	2.28	1.278	.191	3.00	
1-1/2"	1.900	1.610	.145	2.72	2.73	1.500	.200	3.63	
2"	2.375	2.067	.154	3.65	3.68	1.939	.218	5.02	
2-1/2"	2.875	2.469	.203	5.79	5.82	2.323	.276	7.66	
3"	3.500	3.068	.216	7.58	7.62	2.900	.300	10.25	
3-1/2"	4.000	3.548	.226	9.11	9.20	3.364	.318	12.51	
4"	4.500	4.026	.237	10.79	10.89	3.826	.337	14.98	
5"	5.563	5.047	.258	14.62	14.81	4.813	.375	20.78	
6"	6.625	6.065	.280	18.97	19.18	5.761	.432	28.57	
8"	8.625	7.981	.322	28.55	29.35	7.625	.500	43.39	
10"	10.750	10.020	.365	40.48	41.85				
12"	12.750	12.000	.375	49.56	51.15				

Specs For Standard and Extra Strong Pipe

Standard and extra strong welded pipe are produced in 1/8" to 4". Trade sizes 5" and up are available in seamless or electric resistance welded. Trade sizes 1/8" to 4" are produced to ASTM A 53, A 501* and A 589** Type II, API 5L and Federal Specification WW-P404, Trade sizes 5" and up are produced to ASTM A 53 and API 5L. All pipe threads conform to ANSI B1.20.1. Merchant couplings comply with ASTM A 865.

*1/2" through 4" only **1" through 4" only Permissible Variations for ASTM A 53-A Pipe

O.D. 1/8" to 1-1/2" Over 1/64" Under 1/64"
O.D. 2" and up Over 1% Under 1%
Wall Thickness at Any Point – Under 12.5%

ASTM A 53-1: Black and Galvanized Pipe is manufactured for ordinary uses in steam, water, gas and air lines.

Mechanical Properties:

Yield: 30,000 psi minimum Tensile: 48,000 psi minimum



Wheatland Tube Company PIPE

Common ASTM Pipe Specifications

					_								
Specification & Size Range Where Indicated	Scope	Туре	Grades	Bend Test		Chemistry				Tensiles			
A 53 1/8"–26"	Black and galvanized welded and SMLS pipe suitable for welding and forming operations. CW not intended for flanging. Grade B not intended for close coiling or severe cold forming. Pipe requiring for close coiling should be specified on order.	CW-Type F ERW-Type E SMLS-Type S	CW Grade A ERW & SMLS Grades A & B	Yes over 2" nominal XHY 90° to 12 times nominal diameter close coiling 180° to 8 times nominal diameter		Ladle Type F E & S Gr. A Gr. B			,	.045		nimum P. Yield 30,000 30,000 35,000	S.I. Tensile 48,000 48,000 60,000
A 589 Type II 2"-4" Type III 2"-4"	Type II Water Well Reamed & Drifted Type III Driven Well Pipe	Type II SMLS, ERW or CW Type III SMLS, ERW or CW	Type II A or CW Type III A or CW	Non specified		% MAX P S .050 .060					Grade CW Gr. A Gr. B	Yield 30,000 30,000 35,000	S.I. Tensile 48,000 48,000 60,000
API 5L	Welded and SMLS Line Pipe	CW-Type F ERW-Type E SMLS-Type S	CW Grade 25 ERW & SMLS Grades A & B	Yes for A 25 pipe 2-3/8" & smaller		Grade A 25 SMLS A B ERW A B	.21 .22 .27 .21 .26	e % MN .60 .90 1.15 .90 1.15	.04 .04 .04 .04	.06 .05 .05 .05	Mi Grade A 25 Gr. A Gr. B	nimum P. Yield 25,000 30,000 35,000	S.I. Tensile 45,000 48,000 60,000

Common ASTM Pipe Specifications Continued

Specification & Size Range Where Indicated	Hydrostatic	Flattening	Wall Tolerance	O.D. Tolerance
A53 1/8"–26"	Yes	Yes—over 2" nominal XHY & lighter, Cw 90° to 75% OD	Minimum wall at any one point should not be more than 12.5% under Nominal wall.	1/2" through 1-1/2" ±1/64" 2" & over ±1% of OD
A 589 Type II 2"-4" Type III 2"-4"	Yes	Non specified	Minimum wall at any one point should not be more than 12.5% under Nominal wall.	1-1/2" and under ±1/64" 2" & over ±1% of OD
API 5L Yes		Yes	2-7/8" & smaller +20% -12.5% 3-1/2" through 18" +15% -12.5%	1.900" & under + .016"031CW 2-3/8" through 4"OD ±1% OD 2-3/8" through 2"OD ±.75%

The following A53 Black and Galvanized Standard Pipe has been approved by Factory Mutual (FM) and listed by Underwriters Laboratories (UL) and meets the ASTM A53 standard:

Schedule 40—Type F—UL listed for sizes NPS 1" through 4" and FM approved for sizes NPS 3/4" through 4" Schedule 40—Type E—Sizes NPS 1" through 2"

Fire Sprinkler Pipe	Reamed and Drifted Pipe	Fusion Bonded Pipe
Fence Pipe and Tubing	Galvanized Mechanical Tubing	Special Lengths
Steel Electrical Conduit	Grade B ERW Pipe	Roll groove and Cut groove
10" Hardware Pipe	Galvanized Conduit Shells	Plumbing and Electrical Fittings
Coupling Stock	X-tru-Coat Pipe	NSF Approved Pipe

Lakeside Supply Company 216-941-6800

Wheatland Tube Company (X-TRU-COAT)

Prices and shipping weights are per 100 lineal feet:

Pipe	Adhesive Thickness	Plastic Thickness	Coating
Size	(Minimum)	(Nominal)	Weight
1/2" Nom.	.010"	.025"	4#
3/4" Nom.	.010"	.025"	5#
1" Nom.	.010"	.025"	7#
1-1/4" Nom.	.010"	.025"	8#
1-1/2" Nom.	.010"	.025"	10#
2-3/8" O.D.	.010"	.030"	13#
2-7/8" O.D.	.010"	.030"	16#
3-1/2" O.D.	.010"	.035"	22#
4" O.D.	.010"	.035"	25#
4-1/2" O.D.	.010"	.035"	28#
4-12" O.D.	.010"	.060"	43#
5-9/16" O.D.	.010"	.040"	38#
5-9/16" O.D.	.010"	.060"	53#
6-5/8" O.D.	.010"	.040"	45#
6-5/8" O.D.	.010"	.060"	63#
8-5/8" O.D.	.010"	.040"	59#
8-5/8" O.D.	.010"	.060"	82#
10-3/4" O.D.	.010"	.040"	73#
10-3/4" O.D.	.010"	.060"	102#
12-3/4" O.D.	.010"	.040"	87#
12-3/4" O.D.	.010"	.060"	121#

PIPE FABRICATION

We offer a full line of fabricated pipe for Sprinkler and other installations. We can cut, thread, groove, weld and make-on fittings to your specifications. We are always happy to quote you on any fabrication work—be it one piece or an entire system. Lakeside can fabricate carbon steel, stainless steel, P.V.C., ductile iron, brass and copper. We can work with any size pipe from 1/8" through 24".

Contact a sales representative for a thorough quotation.



Wheatland Tube Company FIRE SPRINKLER PIPE

PRODUCT DESCRIPTION WLS

Wheatland Lightweight Sprinkler Pipe (WLS) is a threadable lightweight steel pipe used for sprinkler applications. WLS is a standard nominal diameter pipe product and conforms to the Schedule 30 dimensions set forth in ANSI/ASME B36.10M-1995. Wheatland has engineered over 60 years of experience and quality control into its sprinkler pipe products using the continuous furnace weld manufacturing process. WLS has the service life and application range needed to produce a quality sprinler system installation.

WLS is approved for use with threaded, welded, roll grooved or plain end fittings. When hot dip galvanized, WLS is FM approved for use in dry system applications. WLS complies with the appropriate ASTM, ANSI, UL and NFPA standards and is FM approved.

DIMENSIONS AND PRODUCT INFORMATION

				Lift Sizes		Threaded		Friction Loss (PSI/Ft) C=120		
Size	Nom.	Nom.	Nom.			CRR	End	Flow Rate	Friction	
	O.D.	Wall	Wt./Ft.	21'	25'	Ratio	Finish+	GPM	Loss	
1"	1.315	.114	1.462	1470	1500	.57	Plain End	40	.3945	
1-1/4"	1.660	.117	1.928	1155	1125	.46	Plain End	100	.5729	
1-1/2"	1.900	.125	2.370	945	1000	.64	Plain End	120	.3944	
2"	2.375	.125	3.004	735	750	.52	Plain End	150	.1739	

[•] Corrosion Resistance Ratio (CRR) - The CRR measures the ability of the pipe to withstand corrosion. Schedule 40 pipe is used as the benchmark (value of 1.0).

Available in Black and Hot-Dip Galvanized.

WST

WST is UL listed and FM approved. WST can be joined using Victaulic's PRESSFIT™ fittings, roll grooved fittings, roll grooved fittings or welded fittings. This lightwall Schedule 5 pipe from Wheatland exceeds the standards set by UL and FM. Based on the CRR values, the life expectancy of Wheatland's WST pipe is equivalent to or greater than the threaded portion of Schedule 40 pipe.

WST has galvanized O.D. for longer service life. It provides a dry surface and gives a better appearance, matching the PRESSFIT™ fittings. WST's larger I.D. normally yields better hydraulics and can often lead to down sizing of sprinkler tubing required.

DIMENSIONS AND PRODUCT INFORMATION

							Friction Los	s (PSI/Ft) C=120
Size	Nom.	Nom.	Nom.	Lift	CRR	End	Flow Rate	
	O.D.	Wall	Wt./Ft.	Sizes	Ratio*	Finish	GPM	Friction Loss
3/4"	1.050	.065	0.68	91	3.38	Plain End	20	.2366
1"	1.315	.065	0.87	91	2.16	Plain End	40	.2591
1-1/4"	1.660	.065	1.11	61	1.39	Plain End	100	.4066
1-1/2"	1.900	.065	1.27	61	1.10	Plain End	120	.2802
2"	2.375	.065	1.60	37	.90	Plain End	150	.1330

Standard Finish: Galvanized O.D., Bare Pipe I.D.

Length: 21' standard.

For further information and pricing, please contact your local representative or district sales office.

⁺ can be threaded to order.

^{*}CRR measures the ability of the pipe to withstand corrosion. Schedule 40 threaded pipe is used as the benchmark (value of 1.0). The CRR values of WST are higher than any threaded sprinkler pipe (except 2").

Lakeside Supply Company 216-941-6800

Wheatland Tube Company STEEL PIPE DATA

PIPE SCHEDULES-ANSI/ASME B36.10M-1995

			TOP FIGI	JRES, Nom	inal Wall Th	nickness in	BOTTOM FIGURES, Nominal Weight per Foot in Pounds							
Pipe Size	O.D. Inches	10	20	30	40	STD.	60	80	E.H.	100	120	140	160	DBLE. E.H.
1/8"	.405			.057	.068	.068		.095	.095					
1/0	.405			.21	.24	.24		.31	.31					
1/4"	.540			.073	.088	.088		.119	.119					
1/4	.540			.36	.42	.42		.54	.54					
3/8"	.675			.073	.091	.091		.126	.126					
0/0	.070			.47	.56	.56		.74	.74					
1/2"	.840			.095	.109	.109		.147	.147				.188	.294
.,	.010			.76	.85	.85		1.09	1.09				1.31	1.71
3/4"	1.050			.095	.113	.113		.154	.154				.219	.308
	1.000			.97	1.13	1.13		1.47	1.47				1.94	2.44
1"	1.315			.114	.133	.133		.179	.179				.250	.358
<u>'</u>	1.010			1.46	1.68	1.68		2.17	2.17				2.84	3.66
1-1/4"	1.660			.117	.140	.140		.191	.191				.250	.382
, .	1.000			1.93	2.27	2.27		3.00	3.00				3.76	5.21
1-1/2"	1.900			.125	.145	.145		.200	.200				.281	.400
,_	1.000			2.37	2.72	2.72		3.63	3.63				4.86	6.41
2"	2.375			.125	.154	.154		.218	.218				.344	.436
	2.0.0			3.00	3.65	3.65		5.02	5.02				7.46	9.03
2-1/2"	2.875			.188	.203	.203		.276	.276				.375	.552
/_	2.070			5.40	5.79	5.79		7.66	7.66				10.01	13.70
3"	3.500			.188	.216	.216		.300	.300				.438	.600
	0.000			6.65	7.58	7.58		10.25	10.25				14.31	18.58
3-1/2"	4.00			.188	.226	.226		.318	.318					
0 1/2	1.00			7.65	9.11	9.11		12.51	12.51					
4"	4.500			.188	.237	.237		.337	.337		.438		.531	.674
· ·	4.000			8.66	10.79	10.79		14.98	14.98		18.98		22.52	27.54
4-1/2"	5.000					.247			.355					.710
	0.000					12.53			17.61					32.53
5"	5.563				.258	.258		.375	.375		.500		.625	.750
	0.000				14.62	14.62		20.78	20.78		27.04		32.96	38.55
6"	6.625				.280	.280		.432	.432		.562		.719	.864
	0.020				18.97	18.97		28.57	28.57		36.42		45.34	53.16
7"	7.625					.301			.500					.875
-						23.57			38.05					63.08
8"	8.625		.250	.277	.322	.322	.406	.500	.500	.594	.719	.812	.906	.875
			22.36	24.70	28.55	28.55	35.66	43.39	43.39	50.93	60.69	67.79	74.71	72.42
9"	9.625					.342			.500					
	0.020					33.90			48.72					
10"	10.750		.250	.307	.365	.365	.500	.594	.500	.719	.844	1.000	1.125	1.000
			28.04	34.24	40.48	40.48	54.74	64.40	54.74	77.00	89.27	104.13	115.65	104.13
12"	12.750		.250	.330	.406	.375	.562	.688	.500	.844	1.000	1.125	1.312	1.000
.=			33.38	43.77	53.53	49.56	73.22	88.57	65.42	107.29	125.49	139.68	160.33	125.49
14"	14.000	.250	.312	.375	.438	.375	.594	.750	.500	.938	1.094	1.250	1.406	
• •		36.71	45.68	54.57	63.37	54.57	85.01	106.13	72.09	130.79	150.76	170.22	189.15	
16"	16.000	.250	.312	.375	.500	.375	.656	.844	.500	1.031	1.219	1.438	1.594	
. •	. 5.500	42.05	52.36	62.58	82.77	62.58	107.54	136.58	82.77	164.86	192.40	223.57	245.22	