



WT-40 and F1083

Two Choices for Lasting Security

Wheatland Tube's fence framework is known for providing security that endures the test of time. WT-40 meets or exceeds ASTM F1043 1C requirements, and the exterior coating will prove compatible with any design plans. F1083 is the only framework meeting ASTM F1043, Group 1A, specifications that is proudly made in America. Both products meet or exceed the highest regulations in the industry and either option is perfect for industrial and commercial demands, from securing a chemical plant to completing a neighborhood ball field.

AMERICAN
METAL

 **Wheatland** Tube
A DIVISION OF ZEKELMAN INDUSTRIES

WT-40 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)	10' Free Supported	Cantilever
									x				lb./in.	4'	6'	
1½"	1.660	42.16	0.111	2.82	1.84	2.74	0.1962	4.98	x	50000	345	=	9810	327	204	136
1¾"	1.900	48.26	0.120	3.05	2.28	3.39	0.2810	7.14	x	50000	345	=	14050	468	293	195
2½"	2.375	60.33	0.130	3.30	3.12	4.64	0.4881	12.40	x	50000	345	=	24405	814	508	339
2¾"	2.875	73.03	0.160	4.06	4.64	6.91	0.8778	22.30	x	50000	345	=	43890	1463	914	610
3½"	3.500	88.90	0.160	4.06	5.71	8.50	1.3408	34.06	x	50000	345	=	67042	2235	1397	931
4"	4.000	101.60	0.160	4.06	6.56	9.76	1.7820	45.26	x	50000	345	=	89098	2970	1856	1237

6½" and 8½" full-weight Schedule 40 per ASTM F1083 is available for terminal post applications.

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	CALCULATED LOAD (LBS.)		
	OD	in.	(mm)	in.	(mm)	lb./ft.	(kg/m)	in. ³		(mm ³)	psi			(MPa)	10' Free Supported	Cantilever
									x				lb./in.	4'	6'	
1½"	1.315	33.40	0.133	3.38	1.68	2.50	0.1328	3.37	x	30000	205	=	3985	133	83	55
1¾"	1.660	42.16	0.140	3.56	2.27	3.38	0.2346	5.96	x	30000	205	=	7038	235	147	98
1"	1.900	48.26	0.145	3.68	2.72	4.05	0.3262	8.29	x	30000	205	=	9786	326	204	136
2½"	2.375	60.33	0.154	3.91	3.65	5.43	0.5606	14.24	x	30000	205	=	16819	561	350	234
2¾"	2.875	73.03	0.203	5.16	5.80	8.62	1.0640	27.03	x	30000	205	=	31921	1064	665	443
3½"	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
4½"	4.500	114.30	0.237	6.02	10.80	16.07	3.2145	81.65	x	30000	205	=	96435	3214	2009	1399
*5¾"	5.563	141.30	0.258	6.55	14.63	21.77	5.4511	138.46	x	35000	240	=	190789	6359	3975	2650
*6½"	6.625	168.28	0.280	7.11	18.99	28.23	8.4958	215.79	x	35000	240	=	297353	9912	6195	4130
*8½"	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 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)	10' Free Supported	Cantilever
									x				lb./in.	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
1"	1.900	48.26	0.200	5.08	3.63	5.40	0.4118	10.46	x	30000	205	=	12354	412	257	172
2½"	2.375	60.33	0.218	5.54	5.03	7.49	0.7309	18.56	x	30000	205	=	21926	731	457	305
2¾"	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
4"	4.000	101.60	0.318	8.08	12.52	18.63	3.1401	79.76	x	30000	205	=	94202	3140	1963	1308
4½"	4.500	114.30	0.337	8.56	15.00	22.32	4.2713	108.49	x	30000	205	=	128140	4271	2670	1780

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	CALCULATED LOAD (LBS.)		
	OD	in.	(mm)	in.	(mm)	lb./ft.	(kg/m)	in. ³		(mm ³)	psi			(MPa)	10' Free Supported	Cantilever
									x				lb./in.	6'	15'	
1½"	1.660	42.16	0.140	3.56	2.27	3.38	0.2346	5.96	x	50000	345	=	11730	392	163	65
1¾"	1.900	48.26	0.145	3.68	2.72	4.05	0.3262	8.29	x	50000	345	=	16310	543	227	91
2½"	2.375	60.33	0.154	3.91	3.65	5.43	0.5606	14.24	x	50000	345	=	28030	935	389	156
2¾"	2.875	73.03	0.203	5.16	5.80	8.62	1.0640	27.03	x	50000	345	=	53200	1773	739	296
3½"	3.500	88.90	0.216	5.49	7.58	11.28	1.7241	43.79	x	50000	345	=	86205	2873	1197	479
4½"	4.500	114.30	0.237	6.02	10.80	16.07	3.2145	81.65	x	50000	345	=	160725	5357	2232	893
5¾"	5.563	141.30	0.258	6.55	14.63	21.77	5.4511	138.46	x	50000	345	=	272555	9085	3785	1514
6½"	6.625	168.28	0.280	7.11	18.99	28.23	8.4958	215.79	x	50000	345	=	424790	14160	5900	2360
8½"	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.

WFE-021819



4435 S. Western Boulevard
Chicago, IL 60609
P 800.257.8182
F 724.346.7260

2001 East Dominguez Street
Long Beach, CA 90810
P 800.257.8182
F 724.346.7260

info@wheatland.com
wheatland.com
Follow us on Twitter:
@WheatlandTube



Wheatland Tube
A DIVISION OF ZEKELMAN INDUSTRIES