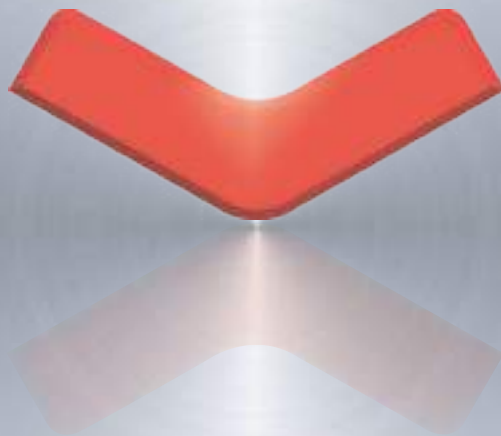


SeAH SeAH Steel Vina Corporation
THE BEST STEEL PIPE & TUBE MANUFACTURER





Foreword

SeAH Steel Vina Corp. who can produce API 5L and API 5CT Line Pipe has been playing an important role in Vietnam economic development as a leader in the steel pipe industry, a mainstay of national infrastructure.

What made us noticeable is that we were the first Vietnam exporter of steel pipes to Japan in 1999, the USA in 2006. Then, we successfully expanded our presence in the world to numerous countries including Australia, Hong Kong, Singapore, Bangladesh, Taiwan.v.v., winning the company's reputation in the world market and improving the globalization of the domestic steel industry.

SeAH Steel Vina Corp. equipped with the biggest production capacity in Vietnam of 330.000 tons, is producing steel pipe products of world's best quality.

SeAH Steel Vina Corp.who can produce API 5L, API 5CT, Line Pipe and Oil Country Tubular Goods from March 2009, sprinkler pipes certified by UL, FM.

Yet, we will not remain complacent with our current credibility and reputation rather we continually strive to shape ourselves into a more matured comprehensive steel – maker.

R & D will continue to perfect production quality.

We hope that we can have your constant support in the future, just as you have been supportive in the past.

We promise to be a true leader of change in the 21th century.

Contents

● Foreword	3-4
● Brief History	5
● Main Products	6
● Size Availability (E.R.W).....	7
● Manufacturing Process	6-7
● Black and Hot-dipped Zinc-coated Tubes & Tubulars for Screwing to BS21 Threads (BS 1387/EN10255)	8
● Black and hot – dipped Zinc coated pipes (ASTM A 53)	9
● Carbon Steel Pipes for Pressure Service and Rigid, Thick Steel Conduit.	10
Tubes (KS D 3562/JIS G 3454 – KS C 8401/JIS C 8305)	10
● Rigid Metal Conduit UL 6 and Rigid Steel Conduit, Zinc Coated. ANSI C80.1	11
● Black and Hot-dipped Zinc-coated Tubes and Tubulars for Ordinary Service (AS1074)	12
● Carbon Steel Pipes for Ordinary Piping (KS D 3507 – JIS G 3452)	13
● Carbon Steel Rectangular and Square Pipe for General Structural Purposes (KS D 3568, JIS G 3466, ASTM A500)...	14
● API Line Pipe & Oil Country Tubular Goods (API 5CT, API 5L)	15-17
● Marking	18
● List of specifications of ERW Tubes and Pipes for Piping	19
● Project Used SeAH Pipes	20-22
● Approved Certifications	23-31

WHY CHOOSE THE SEAH STEEL VINA ? WHAT ARE THE ADVANTAGES OF SEAH PIPE?

SeAH Steel Vina has;

- Over 60 years of accumulated knowledge and technical expertise.
Please refer to the website of the group : www.seahsteel.co.kr
- Quality management system for perfect product with high quality
- Experienced and qualified professionals able to understand and fulfill customers needs promptly.
- A commitment to customer satisfaction
- A research and development center that develops API material (with POSCO)
- A strategic alliance with POSCO since 2007.



Brief History

Aug. 1995 Obtained the investment license from SCCI. under the name SaiGon Steel Pipe Corporation.

May. 1999 Started the operation of SSV's Plant #1 (Bien Hoa).

Nov. 1999 Exported to Japan as the first steel company in VN.

Feb. 2001 Obtained the Quality Management System. ISO 9001-2000 version.

Jun. 2005 Received 2 golden prize of ERW pipe (Black & Galvanized) from VN International exhibition

Dec. 2005 Restructured into a SeAH - Invested company and named as SeAH Steel Vina Corporation.

July. 2006 Exported to USA as the first steel pipe company in VN.

Sep. 2006 Awarded a golden cup of the best brand name in construction Scope.

Sep. 2007 Awarded a gold medal of construction trademark by Ministry of Construction.

Dec. 2007 Awarded a gold medal of trusted-prestige brand, quality products by Ministry of Industry and Trade.

July. 2008 Awarded a gold medal of the best trusted enterprises in construction material.

Dec. 2008 Awarded Top 40 foreign-invested by MPI.

Dec. 2008 Awarded Top 100 brands influence Vietnam market.

Mar. 2009 Started the operation of 8" API Mill Line.

Apr. 2010 Obtained the API Monogram No. 5L-0764 and 5CT-1139.

Jan. 2011 Awarded the Golden Dragon Certificate For High Quality Product.

May. 2011 Obtained the FM Approvals License for SCH10 Steel Sprinkler Pipe.

Dec. 2012 Obtained the certificate of the 500 Largest Vietnamese Enterprises.

Apr. 2013 Obtained the Merit of excellence achievements in boost exports, reduce trade deficit in 2012.

Aug. 2013 Obtained the Gold Star Award of Vietnam in 2013 and Top 100 brands in Vietnam International Integration.

Dec. 2013 Started the operation of 4" API Mill Line.

Dep. 2014 Obtained JIS Certifications: JIS G 3444, JIS G 3452, JIS G 3454, JIS G 3466.

Apr. 2015 Obtained KS Certifications: KS D 3507, KS D 3562, KS D 3566.

Mar. 2016 Obtained the Quality Management System. ISO 9001 : 2015.

Apr. 2016 Obtained the UL Mono. License for fuel gas.

Dec. 2016 Establishment of 4" finishing line for STD.

Feb. 2017 Obtained the UL Mono Sch#40. license for sprinkler pipe.

Apr. 2017 Obtained the FM Mono Sch#40 . license for sprinkler pipe.

Mar. 2019 Started the operation of SSV's Plant #2 (Nhon Trach).

Dec. 2020 Obtained NSF license

Jan. 2021 Obtained the Environmental Management System ISO 14001 - 2015

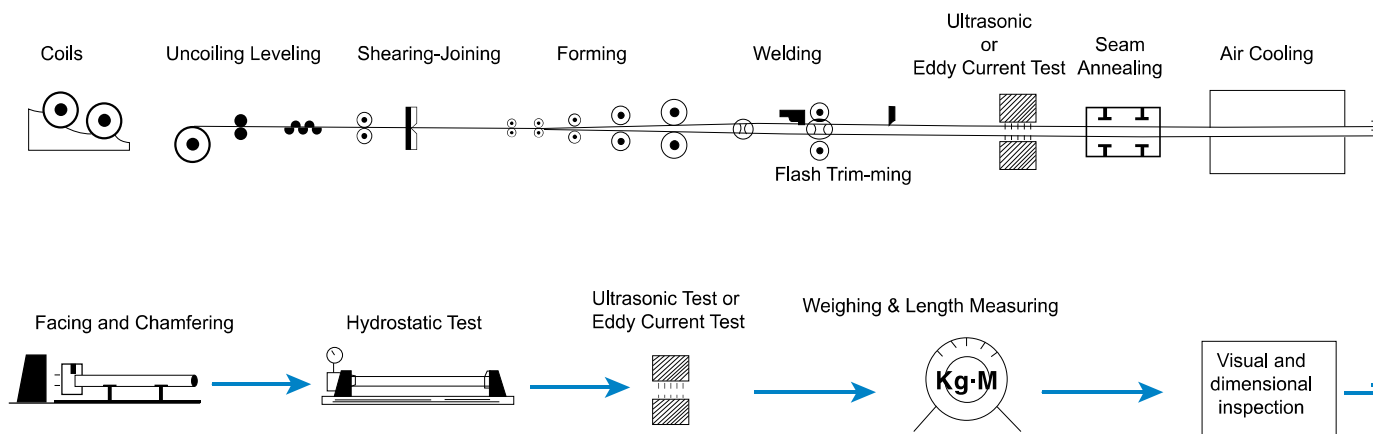


Main Products

- | | |
|---|---|
| <ul style="list-style-type: none"> ■ British Standards (BS/EN) ■ Korean Industrial Standards (KS) ■ American Petroleum Institute Standards (API) | <ul style="list-style-type: none"> ■ American Society for Testing & Material Standards (ASTM) ■ Japanese Industrial Standards (JIS) |
|---|---|

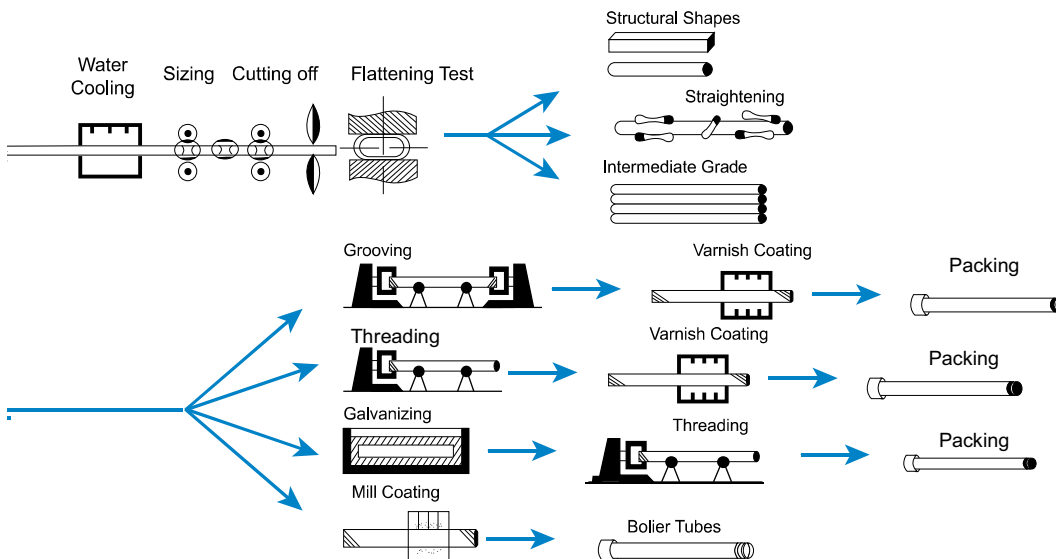
	Usage	Purpose	Standard
Carbon Steel Pipes for Ordinary Piping	■ Pipes for Water Piping ■ Pipes for General Ordinary Piping	► For City & Industrial Water, Irrigation & Agriculture Water, Oil & Gas Supply, Sprinkler, Fire Hydrant, Ship Piping ect,	KS JIS BS ASTM
Carbon Steel Pipes for Pressure Service	■ Pipes for Pressure Service	► For Pressure Service At The Temperature Not Exceeding 350°C	ASTM KS JIS
Conduit Tubes	■ Electrical Metallic Tubing ■ Thin Wall Conduit Tubes ■ Thick Wall Conduit Tubes	► For Installation of wires and cable	ANSI KS JIS UL
Carbon Steel Tubes for Structural Purpose	■ Tubes for General Structural Purpose ■ Tubes for Mechanical Structural Purpose ■ Automobile Structural Purpose ■ Fence Tubes ■ Pipe Scaffoldings ■ Supports ■ Posts for Green House ■ Steel Pipe Pile ■ Steel Pipe Pole	► For Building, Bridge, Harbor, Machinery, Steel Tower, Automobile, Bicycle, Electric. Light Post. Scaffold, Steel Furniture, Support, Hand Rail and Fence etc.	KS JIS ASTM DIN
API Line Pipe & Oil Country Tubular Goods	■ Line Pipe ■ High Test Line Pipe ■ Casing & Tubing	► For use conveying Gas, Water and Oil, in producing operation in both Oil and Natural Gas Industries	API
Carbon steel pipe for piping system	■ Pipe for heating, ventilation and air conditioning (HVAC)	► For fire fighting system, chiller system	FM

Manufacturing Process



Size Availability (E.R.W)

ASTM - API		BS		JIS-KS		OD		Độ dày	inch	mm	0.039	0.08	0.118	0.157	0.197	0.236	0.276	0.315	0.354	0.393
NB	OD (in)	NB	OD (in)	A	B		mm				1	2	3	4	5	6	7	8	9	10
3/8	0.675	3/8	0.656 - 0.671 0.660 - 0.685	10	3/8	16.7 16.8	15.9													
							17.1													
							17.1													
							17.3													
							17.4													
1/2	0.840	1/2	0.825 - 0.841 0.831 - 0.856	15	1/2	21.0 21.1	19.1													
							21.0													
							21.3													
							21.4													
							21.7													
3/4	1.050	3/4	1.041 - 1.059 1.047 - 1.072	20	3/4	26.4 26.6	21.7													
							22.2													
							25.4													
							26.5													
							26.7													
1	1.315	1	1.309 - 1.328 1.316 - 1.346	25	1	33.2 33.4	26.9													
							27.2													
							27.2													
							28.6													
							31.8													
1-1/4	1.660	1-1/4	1.650 - 1.670 1.657 - 1.687	32	1-1/4	41.9 42.1	33.3													
							33.4													
							33.8													
							34.0													
							34.2													
1-1/2	1.900	1-1/2	1.882 - 1.903 1.889 - 1.919	40	1-1/2	47.8 48.0	38.1													
							41.9													
							42.2													
							42.5													
							42.7													
2	2.375	2	2.347 - 2.370 2.354 - 2.394	50	2	59.6 59.8	42.9													
							47.8													
							48.3													
							48.4													
							48.6													
2-1/2	2.875	2-1/2	2.960 - 2.991 2.969 - 3.014	65	2-1/2	75.2 75.4	48.8													
							50.8													
							59.6													
							60.2													
							60.3													
3	3.500	3	3.460 - 3.491 3.469 - 3.524	80	3	87.9 88.1	60.5													
							60.8													
							63.5													
							73.0													
							76.0													
4	4.500	4	4.450 - 4.481 4.459 - 4.524	100	4	113.0 113.3	76.2													
							76.3													
							76.6													
							87.9													
							88.7													
5	5.563	5	5.459 - 5.534	125	5	138.7 140.6	88.9													
							89.1													
							89.5													
							113.4													
							113.9													
6	6.625	6	6.459 - 6.539	150	6	164.1 166.1	114.3													
							114.9													
							127.0													
							139.8													
							140.6													
7	7.000						141.3													
							152.4													
							165.2													
8	8.625						166.1													
							168.3													
							216.3													
							219.1													



Black and Hot - dipped Zinc - coated Tubes

BS1387/EN10255

Grade	Nominal Size		Outside Diameter				Wall Thickness		Weight				Pcs/Bdl
			Max		Min				Plain Ends		Screwed and Socketed		
	in	A	in	mm	in	mm	in	mm	kg / ft	kg / m	kg / ft	kg / m	
A1	3/8	10	0.673	17.1	0.657	16.7	0.063	1.6	0.184	0.604	0.199	0.652	217
	1/2	15	0.843	21.4	0.827	21.0	0.075	1.9	0.276	0.904	0.281	0.922	217
	3/4	20	1.059	26.9	1.039	26.4	0.083	2.1	0.388	1.274	0.395	1.296	127
	1	25	1.331	33.8	1.307	33.2	0.091	2.3	0.539	1.770	0.550	1.803	91
	1 1/4	32	1.673	42.5	1.650	41.9	0.091	2.3	0.690	2.263	0.701	2.301	61
	1 1/2	40	1.906	48.4	1.882	47.8	0.098	2.5	0.857	2.811	0.870	2.855	61
	2	50	2.370	60.2	2.346	59.6	0.079	2.0	0.871	2.856	-	-	37
	2	50	2.370	60.2	2.346	59.6	0.102	2.6	1.120	3.674	1.136	3.726	37
	2 1/2	65	2.992	76.0	2.961	75.2	0.114	2.9	1.585	5.199	1.608	5.275	37
	3	80	3.492	88.7	3.461	87.9	0.114	2.9	1.861	6.107	1.887	6.191	19
	4	100	4.484	113.9	4.449	113.0	0.098	2.5	2.086	6.843	-	-	19
	4	100	4.484	113.9	4.449	113.0	0.126	3.2	2.653	8.704	2.687	8.815	19
LIGHT(L)	3/8	10	0.673	17.1	0.657	16.7	0.071	1.8	0.204	0.670	0.206	0.676	217
	1/2	15	0.843	21.4	0.827	21.0	0.079	2.0	0.289	0.947	0.291	0.956	217
	3/4	20	1.059	26.9	1.039	26.4	0.091	2.3	0.422	1.384	0.424	1.390	127
	1	25	1.331	33.8	1.307	33.2	0.102	2.6	0.604	1.981	0.610	2.000	91
	1 1/4	32	1.673	42.5	1.650	41.9	0.102	2.6	0.774	2.539	0.783	2.570	61
	1 1/2	40	1.906	48.4	1.882	47.8	0.114	2.9	0.985	3.232	0.997	3.270	61
	2	50	2.370	60.2	2.346	59.6	0.114	2.9	1.242	4.076	1.265	4.150	37
	2 1/2	65	2.992	76.0	2.961	75.2	0.126	3.2	1.741	5.713	1.777	5.830	37
	3	80	3.492	88.7	3.461	87.9	0.126	3.2	2.047	6.715	2.100	6.890	19
	4	100	4.484	113.9	4.449	113.0	0.142	3.6	2.974	9.756	3.048	10.000	19
MEDIUM(M)	3/8	10	0.685	17.4	0.661	16.8	0.091	2.3	0.256	0.839	0.258	0.845	217
	1/2	15	0.854	21.7	0.831	21.1	0.102	2.6	0.367	1.205	0.372	1.220	217
	3/4	20	1.071	27.2	1.047	26.6	0.102	2.6	0.475	1.558	0.479	1.570	127
	1	25	1.346	34.2	1.315	33.4	0.126	3.2	0.736	2.415	0.741	2.430	91
	1 1/4	32	1.689	42.9	1.657	42.1	0.126	3.2	0.945	3.101	0.954	3.130	61
	1 1/2	40	1.921	48.8	1.890	48.0	0.126	3.2	1.087	3.567	1.100	3.610	61
	2	50	2.394	60.8	2.354	59.8	0.142	3.6	1.534	5.034	1.554	5.100	37
	2 1/2	65	3.016	76.6	2.969	75.4	0.142	3.6	1.959	6.427	1.996	6.550	37
	3	80	3.524	89.5	3.469	88.1	0.157	4.0	2.550	8.365	2.603	8.540	19
	4	100	4.524	114.9	4.461	113.3	0.177	4.5	3.707	12.162	3.810	12.500	19
	5	125	5.535	140.6	5.461	138.7	0.197	5.0	5.062	16.609	5.212	17.100	7
	6	150	6.539	166.1	6.461	164.1	0.197	5.0	6.017	19.740	6.187	20.300	7
HEAVY(H)	3/8	10	0.685	17.4	0.661	16.8	0.114	2.9	0.309	1.015	0.314	1.030	217
	1/2	15	0.854	21.7	0.831	21.1	0.126	3.2	0.438	1.436	0.442	1.450	217
	3/4	20	1.071	27.2	1.047	26.6	0.126	3.2	0.570	1.870	0.573	1.880	127
	1	25	1.346	34.2	1.315	33.4	0.157	4.0	0.896	2.939	0.902	2.960	91
	1 1/4	32	1.689	42.9	1.657	42.1	0.157	4.0	1.158	3.798	1.167	3.830	61
	1 1/2	40	1.921	48.8	1.890	48.0	0.157	4.0	1.335	4.380	1.347	4.420	61
	2	50	2.394	60.8	2.354	59.8	0.177	4.5	1.887	6.192	1.908	6.260	37
	2 1/2	65	3.016	76.6	2.969	75.4	0.177	4.5	2.418	7.934	2.454	8.050	37
	3	80	3.524	89.5	3.469	88.1	0.197	5.0	3.149	10.333	3.200	10.500	19
	4	100	4.524	114.9	4.461	113.3	0.213	5.4	4.412	14.475	4.511	14.800	19
	5	125	5.535	140.6	5.461	138.7	0.213	5.4	5.451	17.884	5.608	18.400	7
	6	150	6.539	166.1	6.461	164.1	0.213	5.4	6.482	21.266	6.675	21.900	7

- SeAH can produce size : 25.4 mm, 31.8 mm and 38.1 mm

- Tolerance of Wall Thickness: - Extra Light & Light: -8%;+ not specified)

- Medium & Heavy: - 10%; + not specified)

Black and Hot-dipped Zinc-coated Pipes

ASTM A 53

Nominal Size	Outside Diameter		Wall Thickness		Nominal Weight						Weight	Sch	Test Pressure (psi)			
					Plain ends			Threads & Couplings					Plain Ends		Threads & Couplings	
	in.	in.	mm	in.	mm	lb/ft	kg/ft	kg/m	lb/ft	kg/ft			kg/m	Grade A	Grade B	Grade A
1/2	0.840	21.3	0.109 0.147	2.77 3.73	0.86 1.08	0.39 0.49	1.27 1.62	0.86 1.09	0.39 0.49	1.27 1.62	STD XS	40 80	700 850		700 850	
3/4/	1.050	26.7	0.113 0.154	2.87 3.91	1.14 1.47	0.52 0.67	1.69 2.20	1.14 1.48	0.52 0.67	1.69 2.21	STD XS	40 80	700 850		700 850	
1	1.315	33.4	0.133 0.179	3.38 4.55	1.67 2.18	0.76 0.99	2.50 3.24	1.69 2.19	0.77 0.99	2.50 3.25	STD XS	40 80	700 850	700 850	700 850	700 850
1 1/4	1.660	42.2	0.140 0.191	3.56 4.85	2.27 2.99	1.03 1.36	3.39 4.47	2.28 3.02	1.03 1.37	3.40 4.49	STD XS	40 80	1,200 1,800	1,300 1,900	1,000 1,500	1,100 1,600
1 1/2	1.900	48.3	0.145 0.200	3.68 5.08	2.71 3.63	1.23 1.65	4.05 5.41	2.74 3.65	1.24 1.66	4.04 5.39	STD XS	40 80	1,200 1,800	1,300 1,900	1,000 1,500	1,100 1,600
2	2.375	60.3	0.154 0.218	3.91 5.54	3.65 5.02	1.66 2.28	5.44 7.48	3.68 5.08	1.67 2.30	5.46 7.55	STD XS	40 80	2,300 2,500	2,500 2,500	2,300 2,500	2,500 2,500
2 1/2	2.875	73.0	0.203 0.276	5.16 7.01	5.79 7.66	2.63 3.48	8.63 11.41	5.85 7.75	2.65 3.52	8.67 11.52	STD XS	40 80	2,500 2,500	2,500 2,500	2,500 2,500	2,500 2,500
3	3.500	88.9	0.125	3.18	4.51	2.05	6.72	-	-	-	-	-	1,290	1,500	-	-
			0.156	3.96	5.57	2.53	8.29	-	-	-	-	-	1,600	1,870	-	-
			0.188	4.78	6.64	3.02	9.92	-	-	-	-	-	1,930	2,260	-	-
			0.216	5.49	7.57	3.44	11.29	7.68	3.48	11.35	STD	40	2,220	2,500	2,200	2,500
			0.250	6.35	8.67	3.94	12.93	-	-	-	-	-	2,500	2,500	-	-
			0.281	7.14	9.66	4.39	14.40	-	-	-	-	-	2,500	2,500	-	-
4	4.500	114.3	0.300	7.62	10.26	4.65	15.27	10.35	4.69	15.39	XS	80	2,500	2,500	2,200	2,500
			0.125	3.18	5.81	2.65	8.71	-	-	-	-	-	1000	1170	-	-
			0.156	3.96	7.17	3.29	10.78	-	-	-	-	-	1250	1460	-	-
			0.188	4.78	8.65	3.93	12.91	-	-	-	-	-	1500	1750	-	-
			0.219	5.56	9.99	4.54	14.91	-	-	-	-	-	1750	2040	-	-
			0.237	6.02	10.78	4.90	16.07	-	-	-	-	40	1900	2210	-	-
5	5.563	141.3	0.377	8.56	15.00	6.80	22.32	15.20	6.89	22.60	XS	80	2,700	2,800	2,700	2,800
			0.156	3.96	9.00	4.09	13.41	-	-	-	-	-	1,010	1,180	-	-
			0.188	4.78	10.78	4.90	16.09	-	-	-	-	-	1,220	1,420	-	-
			0.203	5.16	11.62	5.28	17.32	-	-	-	-	-	1,220	1,420	-	-
			0.219	5.56	12.47	5.67	18.61	-	-	-	-	-	1,420	1,650	-	-
			0.258	6.55	14.61	6.64	21.77	14.90	6.76	22.07	STD	40	1,670	1,950	1,700	1,900
			0.281	7.14	15.84	7.20	23.62	-	-	-	-	-	1,820	2,120	-	-
			0.312	7.92	17.47	7.94	26.05	-	-	-	-	-	2,020	2,360	-	-
6	6.625	168.3	0.344	8.74	19.16	8.71	28.57	-	-	-	-	-	2,230	2,600	-	-
			0.375	9.52	20.75	9.43	30.94	21.04	9.54	31.42	XS	80	2,430	2,800	2,400	2,800
			0.156	3.96	10.76	4.89	16.05	-	-	-	-	-	1,020	1,190	-	-
			0.188	4.78	12.94	5.87	19.27	-	-	-	-	-	1,020	1,190	-	-
			0.203	5.16	13.93	6.33	20.76	-	-	-	-	-	1,020	1,190	-	-
			0.219	5.56	14.96	6.80	22.31	-	-	-	-	-	1,190	1,390	-	-
			0.250	6.35	17.01	7.73	25.36	-	-	-	-	-	1,360	1,580	-	-
			0.280	7.11	18.94	8.61	28.26	19.34	8.77	28.58	STD	40	1,520	1,780	1500	1800
8	8.625	219.1	0.312	7.92	21.01	9.55	31.32	-	-	-	-	-	1,700	1,980	-	-
			0.344	8.74	23.06	10.48	34.39	-	-	-	-	-	1,870	2,180	-	-
			0.375	9.52	24.99	11.36	37.28	-	-	-	-	-	2,040	2,380	-	-
			0.432	10.97	28.53	12.97	42.56	-	-	-	XS	80	2,350	2,740	2,300	2,700
			0.156	3.96	14.08	6.40	21.01	-	-	-	-	-	780	920	-	-
			0.188	4.78	16.94	7.70	25.26	-	-	-	-	-	780	920	-	-
			0.203	5.16	18.26	8.30	27.22	-	-	-	-	-	850	1,000	-	-
			0.219	5.56	19.62	8.92	29.28	-	-	-	-	-	910	1,070	-	-
			0.250	6.35	22.33	10.15	33.31	-	-	-	-	20	1,040	1,220	-	-
			0.277	7.04	24.68	11.22	36.81	25.53	11.58	38.07	-	30	1,160	1,350	1,200	1,300
			0.312	7.92	27.65	12.57	41.24	-	-	-	-	-	1,300	1,520	-	-
			0.322	8.18	28.53	12.97	42.55	29.35	13.31	43.73	STD	40	1,340	1,570	1,300	1,600
			0.344	8.74	30.40	13.82	45.34	-	-	-	-	-	1,440	1,680	-	-
			0.375	9.52	33.00	15.00	49.20	-	-	-	-	-	1,570	1,830	-	-
			0.406	10.31	35.60	16.18	53.08	-	-	-	-	60	1,700	2,000	-	-

Tolerance of Wall Thickness: -12.5%; + not specified

1psi = 0.0704 kg/cm²

Carbon Steel Pipes for Pressure Service (SPPS;STPG)

KS D 3562
JIS G 3454

Nominal Size		Out-side Dia															
Sch 20			Sch 30			Sch 40			Sch 60			Sch 80					
A	B	mm	Wall Thick-ness	Weight	Hydro-static Pressure Test	Wall Thick-ness	Weight	Hydro-static Pressure Test	Wall Thick-ness	Weight	Hydro-static Pressure Test	Wall Thick-ness	Weight	Hydro-static Pressure Test	Wall Thick-ness	Weight	Hydro-static Pressure Test
		mm	mm	kg/m	Kg/cm2	mm	kg/m	Kg/cm2	mm	kg/m	Kg/cm2	mm	kg/m	Kg/cm2	mm	kg/m	Kg/cm2
10	3/8	17.3							2.3	0.851		2.8	1.00				
15	1/2	21.7							2.8	1.31		3.2	1.46				
20	3/4	27.2							2.9	1.74		3.4	2.00				
25	1	34.0							3.4	2.57		3.9	2.89				
32	1¼	42.7							3.6	3.47		4.5	4.24				
40	1½	48.6							3.7	4.10		4.5	4.89				
50	2	60.5	3.2	4.52					3.9	5.44		4.9	6.72				
65	2½	76.3	4.5	7.97	35			50	5.2	9.12	60	6.0	10.4	90	7.0	12.0	120
80	3	89.1	4.5	9.39					5.5	11.3		6.6	13.4		7.6	15.3	
90	3½	101.6	4.5	10.8					5.7	13.5		7.0	16.3		8.1	18.7	
100	4	114.3	4.9	13.2					6.0	16.0		7.1	18.8		8.6	22.4	
125	5	139.8	5.1	16.9					6.6	21.7		8.1	26.3		9.5	30.5	
150	6	165.2	5.5	21.7					7.1	27.7		9.3	35.8		11.0	41.8	
200	8	216.3	6.4	33.1		7.0	36.1		8.2	42.1		10.3	52.3				

- * Note: Tolerance 1. Tolerance of Outside Diameter : 25A below ± 0.3 mm, 32A over $\pm 0.8\%$
2. Tolerance of Wall Thickness : 3mm below ± 0.3 mm, 3mm over $\pm 10\%$

Rigid, Thick Steel Conduit Tubes

KS C 8401
JIS C 8305

Nominal Size	Outside Dia	Tolerance of Outside Dia	Nominal Thickness	Nominal Inside Dia.	Weight	Effective Length of Thread (mm)	
	mm	mm	mm	mm	kg/m	Max	Min
G 16	21.0	± 0.3	2.3	16.4	1.06	19	16
G 22	26.5	± 0.3	2.3	21.9	1.37	22	19
G 28	33.3	± 0.3	2.5	28.3	1.90	25	22
G 36	41.9	± 0.3	2.5	36.9	2.43	28	25
G 42	47.8	± 0.3	2.5	42.8	2.7	28	25
G 54	59.6	± 0.3	2.8	54.0	3.92	32	28
G 70	75.2	± 0.3	2.8	69.6	5.00	36	32
G 82	87.9	± 0.3	2.8	82.3	5.88	40	36
G 104	113.4	± 0.4	3.5	106.4	9.48	45	39

Regid Metal Conduit

UL6

Nominal size	Nominal Inside Dia.		Outside Diameter		Nominal Wall Thickness		Length without coupling		Weight	
in.	in.	mm	in.	mm	in.	mm	ft. & in.	m	P.E	T.C
1/2	0.632	16.05	0.840	21.34	0.104	2.64	9-11 ¼	3.03	0.371	0.376
3/4	0.836	21.23	1.050	26.67	0.107	2.72	9-11 ¼	3.03	0.490	0.499
1	1.049	26.64	1.315	33.40	0.126	3.20	9-11	3.02	0.726	0.739
1 ¼	1.380	35.05	1.660	42.16	0.133	3.38	9-11	3.02	0.985	1.000
1 ½	1.610	40.89	1.900	48.26	0.138	3.51	9-11	3.02	1.181	1.200
2	2.067	52.50	2.375	60.33	0.146	3.71	9-11	3.02	1.579	1.610
2 ½	2.469	62.71	2.875	73.03	0.193	4.90	9-10 ½	3.01	2.509	2.590
3	3.068	77.93	3.500	88.90	0.205	5.21	9-10 ½	3.01	3.277	3.370
3 ½	3.548	90.12	4.000	101.6	0.215	5.46	9-10 ¼	3.00	3.945	4.100
4	4.026	102.26	4.500	114.3	0.225	5.72	9-10 ¼	3.00	4.668	4.790
5	5.047	128.19	5.563	141.3	0.245	6.22	9-10	3.00	6.315	6.510
6	6.065	154.05	6.625	168.3	0.266	6.76	9-10	3.00	8.207	8.520

Rigid Steel Conduit, Zinc Coated

ANSI C 80.1

Nominal size	Nominal Inside Dia.		Outside Diameter		Nominal Wall Thickness		Length without coupling		Weight of Ten Unit Coupling attached	
in.	in.	mm	in.	mm	in.	mm	ft. & in.	m	P.E	T.C
¾	0.493	12.5	0.675	17.1	0.091	2.31	9-11 ½	3.04	51.5	23.36
1/2	0.632	16.1	0.840	21.3	0.104	2.64	9-11 ¼	3.03	79.0	35.83
3/4	0.836	21.2	1.050	26.7	0.107	2.72	9-11 ¼	3.03	105.0	47.63
1	1.063	27.0	1.315	33.4	0.126	3.20	9-11	3.02	153.0	69.40
1 ¼	1.394	35.4	1.660	42.2	0.133	3.38	9-11	3.02	201.0	91.17
1 ½	1.624	41.2	1.900	48.3	0.138	3.51	9-11	3.02	249.0	112.95
2	2.083	52.9	2.375	60.3	0.146	3.71	9-11	3.02	332.0	150.60
2 ½	2.489	63.2	2.875	73.0	0.193	4.90	9-10 ½	3.01	527.0	239.05
3	3.090	78.5	3.500	88.9	0.205	5.21	9-10 ½	3.01	682.6	309.63
3 ½	3.570	90.7	4.000	101.6	0.215	5.46	9-10 ¼	3.00	831.0	376.94
4	4.050	102.9	4.500	114.3	0.225	5.72	9-10 ¼	3.00	972.3	441.04
5	5.073	128.9	5.563	141.3	0.245	6.22	9-10	3.00	1,313.6	595.85
6	6.093	154.8	6.625	168.3	0.266	6.76	9-10	3.00	1,745.3	791.67

Black and Hot-dipped Zinc-coated Tubes and Tubulars for Ordinary Service

AS1074/ AS1163 C250

Grade	Nominal Size		Outside Diameter (mm)		Wall Thickness (mm)	Weight	
	in	A	Max	Min		Plain Ends	Screwed & socketed
LIGHT (L)	3/8	10	17.1	16.7	1.8	0.670	0.676
	1/2	15	21.4	21.0	2.0	0.947	0.956
	3/4	20	26.9	26.4	2.3	1.38	1.39
	1	25	33.8	33.2	2.6	1.98	2.00
	1 1/4	32	42.5	41.9	2.6	2.54	2.57
	1 1/2	40	48.4	47.8	2.9	3.23	3.27
	2	50	60.2	59.6	2.9	4.08	4.15
	2 1/2	65	76.0	75.2	3.2	5.71	5.83
	3	80	88.7	87.9	3.2	6.72	6.89
	4	100	113.9	113.0	3.6	9.75	10.0
MEDIUM (M)	3/8	10	17.4	16.8	2.3	0.839	0.845
	1/2	15	21.7	21.1	2.6	1.21	1.22
	3/4	20	27.2	26.6	2.6	1.56	1.57
	1	25	34.2	33.4	3.2	2.41	2.43
	1 1/4	32	42.9	42.1	3.2	3.10	3.13
	1 1/2	40	48.8	48.0	3.2	3.57	3.61
	2	50	60.8	59.8	3.6	5.03	5.10
	2 1/2	65	76.6	75.4	3.6	6.43	6.55
	3	80	89.5	88.1	4.0	8.37	8.54
	4	100	114.9	113.3	4.5	12.2	12.5
	5	125	140.6	138.7	5.0	16.6	17.1
	6	150	166.1	164.1	5.0	19.7	20.3
HEAVY (H)	3/8	10	17.4	16.8	2.9	1.02	1.03
	1/2	15	21.7	21.1	3.2	1.44	1.45
	3/4	20	27.2	26.6	3.2	1.87	1.88
	1	25	34.2	33.4	4.0	2.94	2.96
	1 1/4	32	42.9	42.1	4.0	3.80	3.83
	1 1/2	40	48.8	48.0	4.0	4.38	4.42
	2	50	60.8	59.8	4.5	6.19	6.26
	2 1/2	65	76.6	75.4	4.5	7.93	8.05
	3	80	89.5	88.1	5.0	10.3	10.5
	4	100	114.9	113.3	5.4	14.5	14.8
	5	125	140.6	138.7	5.4	17.9	18.4
	6	150	166.1	164.1	5.4	21.3	21.9

Carbon Steel Pipes for Ordinary Piping (SPP)

KS D 3507

Nominal Size		Outside Dia.	Tolerance of Outside Dia		Wall Thickness	Tolerance of Wall Thickness	Unit Weight of Plain Ends
mm	in.	mm	Taper Threaded	Plain Ends	mm		kg/m
10	3/8	17.3	± 0.5 mm		2.35	+ not specified - 12.5%	0.866
15	1/2	21.7	± 0.5 mm		2.65		1.25
20	3/4	27.2	± 0.5 mm		2.65		1.60
25	1	34.0	± 0.5 mm		3.25		2.45
32	1¼	42.7	± 0.5 mm		3.25		3.16
40	1½	48.6	± 0.5 mm		3.25		3.63
50	2	60.5	± 0.5 mm	$\pm 1\%$	3.65		5.12
65	2½	76.3	± 0.7 mm	$\pm 1\%$	3.65		6.34
80	3	89.1	± 0.8 mm	$\pm 1\%$	4.05		8.49
90	3½	101.6	± 0.8 mm	$\pm 1\%$	4.05		9.74
100	4	114.3	± 0.8 mm	$\pm 1\%$	4.50		12.2
125	5	139.8	± 0.8 mm	$\pm 1\%$	4.85		16.1
150	6	165.2	± 0.8 mm	$\pm 1\%$	4.85		19.2
175	7	190.7	± 0.9 mm	$\pm 1\%$	5.30		24.2
200	8	216.3	± 1.0 mm	$\pm 1\%$	5.85		30.4

Carbon Steel Pipes for Ordinary Piping (SGP)

JIS G 3452

Nominal Size		Outside Dia.	Tolerance of Outside Dia		Wall Thickness	Tolerance of Wall Thickness	Unit Weight of Plain Ends
mm	in.	mm	Taper	Plain Ends	mm		kg/m
10	3/8	17.3	± 0.5 mm		2.3	+ not specified - 12.5%	0.851
15	1/2	21.7	± 0.5 mm		2.8		1.31
20	3/4	27.2	± 0.5 mm		2.8		1.68
25	1	34.0	± 0.5 mm		3.2		2.43
32	1¼	42.7	± 0.5 mm		3.5		3.38
40	1½	48.6	± 0.5 mm		3.5		3.89
50	2	60.5	± 0.5 mm	$\pm 1\%$	3.8		5.31
65	2½	76.3	± 0.7 mm	$\pm 1\%$	4.2		7.47
80	3	89.1	± 0.8 mm	$\pm 1\%$	4.2		8.79
90	3½	101.6	± 0.8 mm	$\pm 1\%$	4.2		10.10
100	4	114.3	± 0.8 mm	$\pm 1\%$	4.5		12.20
125	5	139.8	± 0.8 mm	$\pm 1\%$	4.5		15.0
150	6	165.2	± 0.8 mm	± 1.6 mm	5.0		19.8
175	7	190.7	± 0.9 mm	± 1.6 mm	5.3		24.2
200	8	216.3	± 1.0 mm	$\pm 0.8\%$	5.8		30.1

Rectangular Pipe for General Structural Purposes

KS D3568 (SPSR)
JIS G 3466 (STKR)
ASTM A 500

Nominal Size (mm)	Wall Thickness (mm)	Weight (Kg/m)
12 x 32	1.0	0.51
	1.2	0.60
	1.4	0.69
	1.6	0.78
	2.0	0.95
	2.4	1.10
25 x 20	2.6	1.17
	1.0	0.67
	1.2	0.79
	1.4	0.91
	1.6	1.03
	2.0	1.26
30 x 20	2.4	1.48
	2.6	1.58
	1.2	0.89
	1.4	1.02
	1.6	1.16
	2.0	1.42
40 x 20	2.4	1.66
	2.6	1.78
	2.8	1.90
	1.2	1.08
	1.4	1.24
	1.6	1.41
50 x 25	2.0	1.73
	2.4	2.04
	2.8	2.34
	3.0	2.48
	1.2	1.36
	1.4	1.57
	1.6	1.79
	2.0	2.20
	2.4	2.61
	2.8	3.00
	3.2	3.38

Nominal Size (mm)	Wall Thickness (mm)	Weight (Kg/m)
50 x 30	1.2	1.45
	1.4	1.68
	1.6	1.91
	2.0	2.36
	2.4	2.79
	2.8	3.22
60 x 30	3.2	3.63
	1.2	1.64
	1.4	1.90
	1.6	2.16
	1.8	2.42
	2.0	2.67
80 x 40	1.6	2.92
	1.8	3.27
	2.3	4.13
	2.8	4.98
	3.2	5.64
	3.6	6.29
100 x 50	4.0	6.93
	1.8	4.12
	2.3	5.21
	2.8	6.29
	3.2	7.15
	3.6	7.98
101.6 x 50.8	4.0	8.81
	1.8	4.18
	2.3	5.3
	2.8	6.4
	3.2	7.27
	3.6	8.12
	4.0	8.96

Carbon Steel Square Pipe for General Structural Purposes

KS D3568 (SPSR)
JIS G 3466 (STKR)
ASTM A 500

Nominal Size (mm)	Wall Thickness (mm)	Weight (Kg/m)
14 x 14	1.0	0.40
	1.2	0.47
	1.6	0.61
	2.2	0.78
15.9 x 15.9	1.0	0.46
	1.2	0.54
	1.6	0.70
	2.3	0.95
16 x 16	1.0	0.46
	1.2	0.55
	1.6	0.71
	2.3	0.95
19 x 19	1.0	0.56
	1.2	0.66
20 x 20	1.0	0.59
	1.2	0.70
	1.6	0.91
	2.0	1.10
	2.3	1.24
	2.6	1.37
25 x 25	1.0	0.75
	1.2	0.89
	1.6	1.16
	2.0	1.42
	2.3	1.60
	2.8	1.90
25.4 x 25.4	1.0	0.76
	1.2	0.90
	1.6	1.18
	2.0	1.44
	1.0	0.90
30 x 30	1.2	1.08
	1.6	1.41
	2.0	1.73
	2.3	1.96
	2.6	2.19
	3.0	2.48
31.8 x 31.8	1.4	1.32
	1.8	1.67
	2.4	2.18
	3.2	2.80

Nominal Size (mm)	Wall Thickness (mm)	Weight (Kg/m)
38.1 x 38.1	1.4	1.60
	1.8	2.03
	2.4	2.65
	3.2	3.44
40 x 40	1.4	1.68
	1.6	1.91
	1.8	2.14
	2.4	2.79
	2.8	3.22
50 x 50	3.2	3.63
	1.6	2.41
	1.8	2.70
	2.4	3.55
	2.8	4.10
50.8 x 50.8	3.2	4.63
	4.0	5.67
	1.6	2.45
	1.8	2.75
	2.4	3.61
76.2 x 76.2	2.8	4.17
	3.2	4.71
	4.0	5.77
	2.0	4.63
	2.4	5.52
89.9 x 89.9	2.8	6.40
	3.2	7.27
	4.0	8.96
	2.0	5.49
90 x 90	2.4	6.56
	2.8	7.61
	3.2	8.64
	4.0	10.68
	2.0	5.50
	2.4	6.56
	2.8	7.61
	3.2	8.65
	4.0	10.69

API 5CT Oil Country Tubular Goods

Casing

API 5CT

Size				Nominal Weight						Test Pressure (psi)				Type of Thread		
Outside Diameter		Wall Thickness		Plain Ends			Threads and Couplings			H-40		J-55&K-55		Short	Long	Buttress
in.	mm	in.	mm	lb/ft	kg/ft	kg/m	lb/ft	kg/ft	kg/m	Std.	Alt.	Std.	Alt.			
4½	114.3	0.205	5.21	9.41	4.26	13.99	9.50	4.31	14.14	2,900	-	3,000	4,000	x		
		0.224	5.69	10.24	4.64	15.22	10.50	4.76	15.63			3,000	4,400	x		x
		0.250	6.35	11.36	5.15	16.89	11.60	5.26	17.26			3,000	4,900	x	x	x
5	127.0	0.220	5.59	11.24	5.09	16.71	11.50	5.22	17.11	2,800	-	3,000	3,900	x		
		0.253	6.43	12.84	5.82	19.09	13.00	5.90	19.35			3,000	4,500	x	x	x
		0.296	7.52	14.88	6.74	22.13	15.00	6.80	22.32			3,000	5,200	x	x	x
5½	139.7	0.244	6.20	13.71	6.21	20.39	14.00	6.35	20.83	2,800	-	3,000	3,900	x		
		0.275	6.98	15.36	6.96	22.84	15.50	7.03	23.07			3,000	4,400	x	x	x
		0.304	7.72	16.89	7.65	25.11	17.00	7.71	25.30			3,000	4,900	x	x	x
6 ⅝	168.3	0.288	7.32	19.51	8.84	29.01	20.00	9.07	29.76	2,800	-	-	-	x		
		0.288	7.32	19.51	8.84	29.01	20.00	9.07	29.76			3,000	3,800	x	x	x
		0.352	8.94	23.60	10.70	35.09	24.00	10.89	35.72			3,000	4,700	x	x	x
7	177.8	0.231	5.87	16.72	7.57	24.85	17.00	7.71	25.30	2,100	-	-	-	x		
		0.272	6.91	19.56	8.86	29.08	20.00	9.07	29.76			3,000	3,400	x		
		0.317	8.05	22.65	10.26	33.68	23.00	10.43	34.23			3,000	4,000	x	x	x
7 ⅞	193.7	0.362	9.19	25.69	11.64	38.19	26.00	11.79	38.69	2,500	-	3,000	4,600	x	x	x
		0.300	7.62	23.49	10.65	34.95	24.00	10.89	35.72			-	-	x		
		0.328	8.33	25.59	11.59	38.04	26.40	11.97	39.29			3,000	3,800	x	x	x
8 ⅞	219.1	0.264	6.71	23.60	10.69	35.08	24.00	10.89	35.72	2,300	-	2,700	-	x		
		0.304	7.72	27.04	12.26	40.21	28.00	12.70	41.67			-	-	x		
		0.352	8.94	31.13	14.11	46.28	32.00	14.51	47.62					x		
		0.352	8.94	31.13	14.11	46.28	32.00	14.51	47.62			3,000	3,600	x	x	x
		0.400	10.16	35.17	15.94	52.30	36.00	16.33	53.58			3,000	4,100	x	x	x

Tubing

API 5CT

Size				Nominal Weight						Test Pressure (psi)				Type of Ends
Outside Diameter		Wall Thickness		Plain Ends			Threads and Couplings			H-40		J-55&K-55		
in.	mm	in.	mm	lb/ft	kg/ft	kg/m	lb/ft	kg/ft	kg/m	Std.	Alt.	Std.	Alt.	
1.315	33.4	0.133	33.8	1.68	0.76	2.50	1.70	0.77	2.53	3,000	6,500	3,000	8,900	Non - Upset Integral Joint Ext. Upset
		0.133	33.8	1.68	0.76	2.50	1.72	0.78	2.56	3,000	6,500	3,000	8,900	
		0.133	33.8	1.68	0.76	2.50	1.80	0.82	2.68	3,000	6,500	3,000	8,900	
1.660	42.2	0.125	3.18	2.05	0.93	3.05	2.10	0.95	3.13	3,000	4,800	3,000	6,600	Integral Joint Non - Upset Integral Joint Ext. Upset
		0.140	3.56	2.27	1.03	3.38	2.03	1.04	3.42	3,000	5,400	3,000	7,400	
		0.140	3.56	2.27	1.03	3.38	2.33	1.06	3.47	3,000	5,400	3,000	7,400	
		0.140	3.56	2.27	1.03	3.38	2.40	1.09	3.57	3,000	5,400	3,000	7,400	
1.900	48.3	0.125	3.18	2.37	1.08	3.53	2.40	1.09	3.57	3,000	4,200	3,000	5,800	Integral Joint Non - Upset Integral Joint Ext. Upset
		0.145	3.68	2.72	1.23	4.05	2.75	1.25	4.09	3,000	4,900	3,000	6,700	
		0.145	3.68	2.72	1.23	4.05	2.76	1.25	4.11	3,000	4,900	3,000	6,700	
		0.145	3.68	2.72	1.23	4.05	2.90	1.32	4.32	3,000	4,900	3,000	6,700	
2.063	52.4	0.156	3.96	3.18	1.44	4.73	3.25	1.47	4.84	3,000	4,800	3,000	6,700	Integral Joint
2 3⁄8	60.3	0.167	4.24	3.94	1.79	5.86	4.00	1.81	5.95	3,000	4,500	3,000	6,200	Non - Upset Non - Upset Ext. Upset
		0.190	4.83	4.44	2.01	6.59	4.60	2.09	6.85	3,000	5,100	3,000	7,000	
		0.190	4.83	4.44	2.01	6.59	4.70	2.13	6.99	3,000	5,100	3,000	7,000	
2 7⁄8	73.0	0.217	5.51	6.17	2.79	9.17	6.40	2.9	9.52	3,000	4,800	3,000	6,600	Non - Upset Ex. Upset
		0.217	5.51	6.17	2.79	9.17	6.50	2.95	9.67	3,000	4,800	3,000	6,600	

API 5CT Oil Country Tubular Goods

Tubing (Cont.)

API 5CT

Size				Nominal Weight						Test Pressure (psi)				Type of Ends
Outside Diameter		Wall Thickness		Plain Ends			Threads and Couplings			H-40		J-55&K-55		
in.	mm	in.	mm	lb/ft	kg/ft	kg/m	lb/ft	kg/ft	kg/m	Std.	Alt.	Std.	Alt.	
3½	88.9	0.216	5.49	7.58	3.44	11.28	7.7	3.49	11.46	3000	3900	3000	5400	Non-Upset
										3000	4600	3000	6400	Ext.Upset
		0.254	6.45	8.81	4	13.11	9.2	4.17	13.69	3000	4600	3000	6400	Ext.Upset
		0.254	6.45	8.81	4	13.11	9.3	4.22	13.84	3000	5300	3000	7300	Non-Upset
4	101.6	0.289	7.34	9.92	4.5	14.75	10.2	4.63	15.18					
										3000	3600	3000	5000	Non-Upset
		0.226	5.74	9.12	4.13	13.56	9.5	4.31	14.14	3000	4200	3000	5800	Ext.Upset
		0.262	6.65	10.47	4.74	15.57	11	4.99	16.37					
4½	114.3									3000	3900	3000	5300	Non-Upset
		0.271	6.88	12.25	5.55	18.22	12.6	5.72	18.75	3000	3900	3000	5300	Ext.Upset
		0.271	6.88	12.25	5.55	18.22	12.75	5.78	18.97					

API Line Pipe

Line Pipe

API 5L

Size						Weight			Hydrostatic Test Pressure (Kpa x 100)									
Outside Diameter			Wall Thickness			lb/ft	kg/ft	kg/m	A		B		X42		X46		X52	
KTDN	in.	mm	Sch No.	in.	mm				Std.	Alt.	Std.	Alt.	Std.	Alt.	Std.	Alt.	Std.	Alt.
1	1.315	33.4	40 (Std)	0.133	3.4	1.68	0.76	2.52	48	-	48	-	-	-	-	-	-	-
			80 (XS)	0.179	4.5	2.17	0.98	3.21	59	-	59	-	-	-	-	-	-	-
1 ¼"	1.660	42.2	40 (Std)	0.140	3.6	2.27	1.03	3.43	83	-	90	-	-	-	-	-	-	-
			80 (XS)	0.191	4.9	3.00	1.36	4.51	124	-	131	-	-	-	-	-	-	-
1 ½"	1.900	48.3	40 (Std)	0.145	3.7	2.72	1.23	4.07	83	-	90	-	-	-	-	-	-	-
			80 (XS)	0.200	5.1	3.63	1.65	5.43	124	-	131	-	-	-	-	-	-	-
2	2 ⅝	60.3	40 (Std)	0.083	2.1	2.03	0.92	3.01	87	108	101	126	121	151	132	166	150	188
				0.109	2.8	2.64	1.20	3.97	115	144	134	168	162	202	177	221	200	250
				0.125	3.2	3.01	1.37	4.51	132	165	153	172	185	231	202	252	207	286
				0.141	3.6	3.37	1.53	5.03	148	172	172	172	207	260	207	284	207	321
				0.154	3.9	3.66	1.66	5.42	161	172	172	172	207	281	207	308	207	348
				0.172	4.4	4.05	1.84	6.07	172	172	172	172	207	317	207	347	207	393
				0.188	4.8	4.40	2.00	6.57	172	172	172	172	207	346	207	379	207	429
				0.218	5.5	5.03	2.28	7.43	172	172	172	172	207	397	207	434	207	491
				0.250	6.4	5.68	2.58	8.51	172	172	172	172	207	462	207	500	207	500
				0.281	7.1	6.29	2.85	9.31	172	172	172	172	207	500	207	500	207	500
				0.436	11.1	9.04	4.1	13.47	172	172	172	172	207	500	207	500	207	500
			40 (Std)	0.083	2.10	2.48	1.12	3.67	71	89	83	104	100	125	109	137	124	155
				0.109	2.80	3.22	1.46	4.85	95	119	111	139	133	167	146	182	165	207
				0.125	3.20	3.67	1.66	5.51	109	136	127	158	153	191	167	208	189	236
				0.141	3.60	4.12	1.87	6.16	122	153	143	172	172	215	188	234	207	266
				0.156	4.00	4.53	2.05	6.81	136	170	158	172	191	238	207	261	207	295
				0.172	4.40	4.97	2.25	7.44	150	172	172	172	207	262	207	287	207	325
				0.188	4.80	5.4	2.45	8.07	163	172	172	172	207	286	207	313	207	354
				0.203	5.20	5.8	2.63	8.69	172	172	172	172	207	310	207	339	207	384
				0.216	5.50	6.14	2.79	9.16	172	172	172	172	207	328	207	358	207	406
				0.250	6.40	7.02	3.18	10.51	172	172	172	172	207	381	207	417	207	472
			80 (XS)	0.276	7.00	7.67	3.48	11.39	172	172	172	172	207	417	207	456	207	500

API Line Pipe

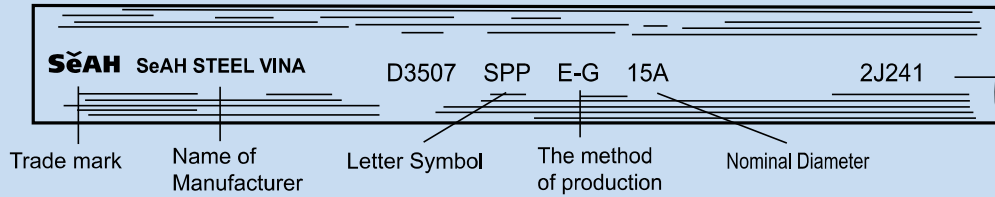
Line Pipe (Cont.)

API 5L

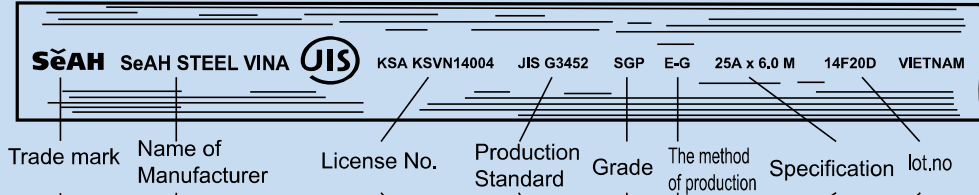
Size						Weight			Hydrostatic Test Pressure (Kpa x 100)									
Outside Diameter			Wall Thickness			lb/ft	kg/ft	kg/m	A		B		X42		X46		X52	
Nominal Size	in.	mm	Sch No.	in.	mm				Std.	Alt.	Std.	Alt.	Std.	Alt.	Std.	Alt.	Std.	Alt.
3	3½	88.9	40 (Std)	0.083	2.1	3.03	1.37	4.50	59	73	68	85	82	103	90	112	102	127
				0.109	2.8	3.95	1.79	5.95	78	98	91	114	110	137	120	150	136	170
				0.125	3.2	4.51	2.05	6.76	89	112	104	130	125	157	137	171	155	194
				0.141	3.6	5.06	2.30	7.57	101	126	117	146	141	176	154	193	174	218
				0.156	4.0	5.58	2.53		112	140	130	163	157	196	171	214	194	242
				0.172	4.4	6.12	2.78	9.17	123	154	143	172	172	215	188	235	207	267
				0.188	4.8	6.66	3.02	9.95	134	168	156	172	188	235	205	257	207	291
				0.216	5.5	7.58	3.44	11.31	154	172	172	172	207	269	207	294	207	333
				0.250	6.4	8.69	3.94	13.02	172	172	172	172	207	313	207	342	207	388
				0.281	7.1	9.67	4.39	14.32	172	172	172	172	207	347	207	380	207	430
			80 (XS)	0.300	7.6	10.26	4.65	15.24	172	172	172	172	207	372	207	407	207	460
3½	4	101.6	40 (Std)	0.083	2.1	3.48	1.58	5.15	51	64	60	75	72	90	79	98	89	111
				0.109	2.8	4.53	2.05	6.82	68	86	80	100	96	120	105	131	119	148
				0.125	3.2	5.18	2.35	7.76	78	98	91	114	110	137	120	150	136	170
				0.141	3.6	5.82	2.64	8.70	88	110	102	128	123	154	135	168	153	191
				0.156	4.0	6.41	2.91	9.63	98	122	114	142	137	171	150	187	170	207
				0.172	4.4	7.04	3.19	10.55	108	134	125	157	151	188	165	206	187	207
				0.188	4.8	7.66	3.47	11.46	117	147	137	171	164	206	180	225	204	254
				0.226	5.7	9.12	4.14	13.48	139	174	162	193	195	244	207	267	207	302
				0.250	6.4	10.02	4.54	15.02	156	193	182	193	207	274	207	300	207	339
				0.281	7.1	11.17	5.07	16.55	174	193	193	193	207	304	207	332	207	376
			80 (XS)	0.318	8.1	12.52	5.68	18.68	193	193	193	193	207	347	207	379	207	429
4	4½	114.3	40 (Std)	0.083	2.1	3.92	1.78	5.81	96	57	53	66	64	80	70	87	79	99
				0.125	3.2	5.85	2.65	8.77	70	87	81	101	97	122	106	133	121	151
				0.141	3.6	6.57	2.98	9.83	78	98	91	114	110	137	120	150	136	170
				0.156	4.0	7.24	3.28	10.88	87	109	101	127	122	152	133	166	151	188
				0.172	4.4	7.96	3.61	11.92	96	120	111	139	134	167	146	183	166	207
				0.188	4.8	8.67	3.93	12.96	104	130	121	152	146	183	160	200	181	226
				0.203	5.2	9.32	4.23	13.99	113	141	132	164	158	198	173	216	196	245
				0.219	5.6	10.02	4.54	15.01	122	152	142	177	170	213	186	233	207	264
				0.237	6.0	10.80	4.90	16.02	130	163	152	190	183	228	200	250	207	283
				0.250	6.4	11.36	5.15	17.03	139	174	162	193	195	244	207	266	207	302
				0.281	7.1	12.67	5.75	18.77	154	193	180	193	207	270	207	295	207	335
				0.312	7.9	13.97	6.34	20.73	172	193	193	193	207	301	207	329	207	372
			80 (XS)	0.337	8.6	15.00	6.80	22.42	187	193	193	193	207	327	207	358	207	405
5	5¾	141.3	40	0.083	2.1	4.86	2.20	7.21	37	46	43	54	52	65	57	71	64	80
				0.125	3.2	7.27	3.30	10.90	56	70	65	82	79	99	86	108	98	122
				0.156	4.0	9.02	4.09	13.54	70	88	82	102	99	123	108	135	122	152
				0.188	4.8	10.80	4.90	16.16	84	105	98	123	118	148	129	162	146	183
				0.219	5.6	12.51	5.67	18.74	98	123	115	143	138	172	151	188	171	213
				0.258	6.6	14.63	6.64	21.92	116	145	135	169	163	203	178	222	201	252
				0.281	7.1	15.87	7.20	23.50	125	156	145	182	175	219	191	239	207	271
				0.312	7.9	17.51	7.94	25.99	139	174	162	193	195	243	207	266	207	301
				0.344	8.7	19.19	8.70	28.45	153	191	178	193	207	268	207	293	207	332
			80 (XS)	0.375	9.5	20.80	9.43	30.88	167	193	193	193	207	292	207	307	207	362
6	6¾	168.3	40	0.083	2.1	5.80	2.63	8.61	31	39	36	45	54	-	59	-	67	-
				0.109	2.8	7.59	3.44	11.43	41	52	48	60	72	-	79	-	90	-
				0.125	3.2	8.69	3.94	13.03	47	59	55	69	83	-	90	-	102	-
				0.141	3.6	9.77	4.43	14.62	53	66	62	77	93	-	102	-	115	-
				0.156	4.0	10.79	4.89	16.21	59	74	68	86	103	-	113	-	128	-
				0.172	4.4	11.87	5.38	17.78	64	81	76	95	114	-	124	-	141	-
				0.188	4.8	12.94	5.87	19.35	70	89	82	103	124	-	136	-	154	-
				0.203	5.2	13.94	6.32	20.91	77	96	89	112	134	-	147	-	166	-
				0.219	5.6	15.00	6.80	22.47	83	103	96	120	145	-	158	-	179	-
				0.250	6.4	17.04	7.73	25.55	94	118	110	137	165	-	181	-	205	-
				0.280	7.1	18.99	8.61	28.22	105	131	122	153	184	-	201	-	227	227
				0.312	7.9	21.06	9.55	31.25	117	146	136	170	204	-	207	223	207	253
				0.344	8.7	23.10	10.48	34.24	128	161	149	187	207	225	207	246	207	278
				0.375	9.5	25.05	11.36	37.20	140	175	163	193	207	246	207	268	207	304
			80 (XS)	0.432	11.0	28.60	12.97	42.67	162	193	189	193	207	284	207	311	207	352
8	8¾	219.1	40	0.125	3.2	11.36	5.15	17.04	36		45	42	53	64	-	69	-	-
				0.156	4.0	14.12	6.40	21.22	45		57	53	66	79	-	87	-	-
				0.188	4.8	16.96	7.69	25.37	54		68	63	79	95	-	104	-	-
				0.203	5.2	18.28	8.29	27.43	59		74	69	86	103	-	113	-	-
				0.219	5.6	19.68	8.93	29.48	63		79	74	92	111	-	122	-	-
				0.250	6.4	22.38	10.15	33.57	73		91	84	106	127	-	139	-	-
				0.277	7.0	24.72	11.21	36.61	79		99	92	115	139	-	152	-	-
				0.312	7.9	27.73	12.58	41.14	90		112	104	130	157	-	171	-	-
				0.322	8.2	28.58	12.96	42.65	93		116	108	135	163	-	178	-	-
				0.344	8.7	30.45	13.81	45.14	99		123	115	144	173	-	189	-	214
				0.375	9.5	33.07	15.00	49.10	108		135	125	157	189	-	206	-	233

Marking

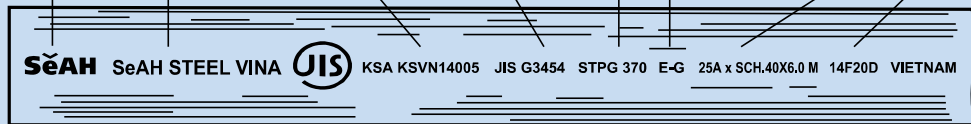
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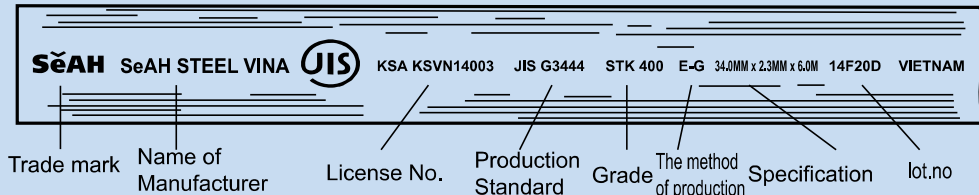
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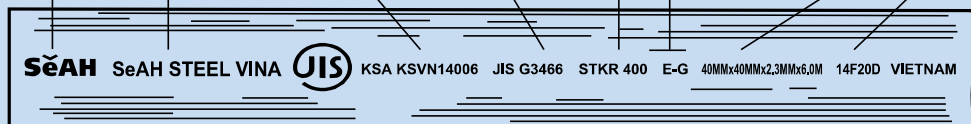
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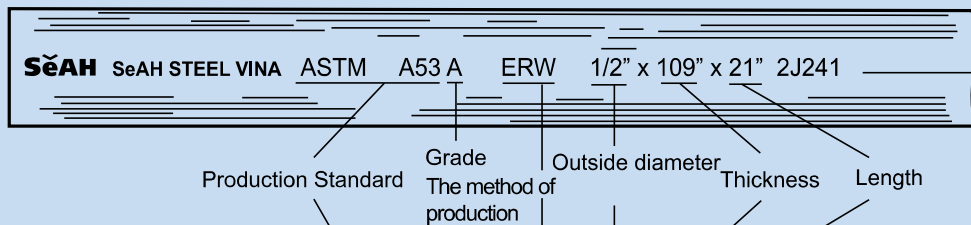
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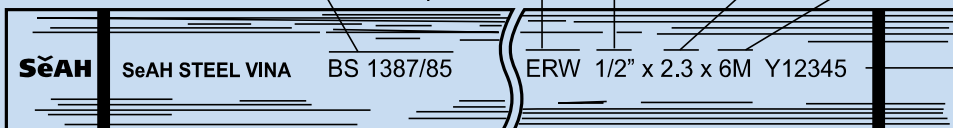
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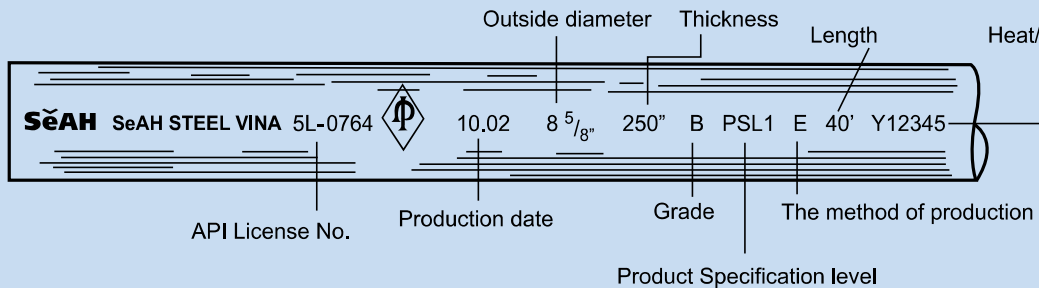
ASTM A 53
GRADE A



BS 1387



API 5L
GRADE B
PSL 1



API 5CT



List of Specification of ERW Tubes and Pipes for Piping

Standard Specification		Chemical Requirement (Max%)				Physical Requirement			Flattening Test	Bend Test	Hydrostatic Test																												
						Tensile Strength	Yield Strength	Elongation	H= Distance between Exterior Surface D= Outside Diameter	Angle x Inner Radius	P=Test Pressure (Psi) S=A.F.Stress(Psi)																												
		C	Mn	P	S	Psi (MPa)	Psi (MPa)	Psi (MPa)																															
ASTM A53	A	0.25	0.95	0.050	0.045	Min. 48,000 (33.8 kg/mm ²)	Min. 30,000 (21.1 kg/mm ²)	625,000 x $\frac{A^{0.2}}{U^{0.9}}$	Apply for Standard Weight And Extra Strong Pipe of NB>2in.	Apply for NB≤2in 90 ⁰ x 6D	Specified Respectively In Size and Grade Note:the Max.P NB≤3in. P=2,500psi NB>3in. P=2,800psi																												
	B	0.30	1.20	0.050	0.045	Min. 60,000 (42.2 kg/mm ²)	Min. 35,000 (24.6 kg/mm ²)		Ductility of the Weld H =¾D Ductility from The Weld H=½D	When Orderd for Close Coiling 180 ⁰ x 8D																													
BS1387	L	0.20	1.20	0.045	0.045	320~460 N/mm ² (33~47.2 kg/mm ²)	Min. 195 N/mm ² (20 kg/mm ²)	Min. 20	Apply for NB>DN50(2in.) Weld Portion H=0.75D	Apply for NB≤DN50 Ungalvanized Tubes At Cold 180 ⁰ x 6D	P=53kgf/cm ² (50 bar)																												
	M	0.20	1.20	0.045	0.045				The Other Side of Weld Portion H=0.6D	Galvanized Tubes 90 ⁰ x 8D																													
	H	0.20	1.20	0.045	0.045				(The Weld Shall Be Located At 90 Deg.)																														
KS D3507 JIS G3452	SPP SGP			0.040	0.040	Min.290 N/mm ²		30	H=¾D	90 ⁰ x 6D	2.5MPa (25kgf/cm ²)																												
JIS G3454	STPG370	0.25	0.30-0.90	0.040	0.040	Min 370 N/mm ²	Min. 215 N/mm ²	30	H=2/3D																														
	STPG410	0.30	0.30-1.00			Min 410 N/mm ²	Min. 245 N/mm ²	25																															
JIS G3444	STK290	-	-	0.050	0.050	Min.290 N/mm ²	-	30	H=2/3D	90 ⁰ x 6D																													
	STK400	0.25	-	0.040	0.040	Min.400 N/mm ²	Min.235 N/mm ²	23	H=2/3D	90 ⁰ x 6D																													
	STK490	0.18	1.65	0.035	0.035	Min.490 N/mm ²	Min.315 N/mm ²	23	H=7/8D	90 ⁰ x 6D																													
	STK500	0.24	0.30-1.30	0.040	0.040	Min.500 N/mm ²	Min.355 N/mm ²	15	H=7/8D	90 ⁰ x 8D																													
	STK540	0.23	1.5	0.040	0.040	Min.540 N/mm ²	Min.390 N/mm ²	20	H=7/8D	90 ⁰ x 6D																													
JIS G3466	STK R400	0.25	1.5	0.040	0.040	Min. 400 N/mm ²	Min. 245 N/mm ²	23																															
	STK R490	0.18		0.040	0.040	Min. 490 N/mm ²	Min. 325 N/mm ²	23																															
API 5L	P S L 1	A	0.22	0.90	0.030	0.030	Min. 48,000(331)	Min. 30,000(207)	$e = 625,000 \times \frac{A^{0.2}}{U^{0.9}}$	Weld Portion H = ¾D	※ 1 Specified respectively in size and grade Note : $P = \frac{2St}{D}$ or 3,000. Whichever is the smaller <table><tr><th>Grade</th><th>O,C</th><th>Standard</th><th>Alternative</th></tr><tr><td>A</td><td>2½ and over^a</td><td>60</td><td>75</td></tr><tr><td>B</td><td>2½ and over^b</td><td>60</td><td>75</td></tr><tr><td>X42</td><td>5⅛ and under^c</td><td>60</td><td>75^d</td></tr><tr><td>~</td><td>6⅝ ~ 8^b and under^c</td><td>75</td><td>75^d</td></tr><tr><td>X80</td><td>10⅜ ~ 18 and^c</td><td>85</td><td>85^d</td></tr><tr><td></td><td>20 over^c</td><td>90</td><td>90^d</td></tr></table> ^a 2500psi. Max ^b 2800psi. Max ^c 3000psi. Max ^d D<16in. 7260psi Max D≥16in. 3630 psi Max	Grade	O,C	Standard	Alternative	A	2½ and over ^a	60	75	B	2½ and over ^b	60	75	X42	5⅛ and under ^c	60	75 ^d	~	6⅝ ~ 8 ^b and under ^c	75	75 ^d	X80	10⅜ ~ 18 and ^c	85	85 ^d		20 over ^c	90	90 ^d
		Grade	O,C	Standard	Alternative																																		
		A	2½ and over ^a	60	75																																		
		B	2½ and over ^b	60	75																																		
		X42	5⅛ and under ^c	60	75 ^d																																		
	~	6⅝ ~ 8 ^b and under ^c	75	75 ^d																																			
	X80	10⅜ ~ 18 and ^c	85	85 ^d																																			
		20 over ^c	90	90 ^d																																			
	B	0.26	1.20	0.030	0.030	Min. 60,000(414)	Min. 35,000(241)	$e = 625,000 \times \frac{A^{0.2}}{U^{0.9}}$	The Other Side of Weld Portion H =¾D																														
	X42	0.26	1.30	0.030	0.030	Min. 60,000(414)	Min. 42,000(290)	$e = 625,000 \times \frac{A^{0.2}}{U^{0.9}}$	The test shall be made alternately with the weld at 0deg. And at 90 deg. From the line of direction of force.																														
X46	0.26	1.40	0.030	0.030	Min. 63,000(434)	Min. 46,000(317)	$e = 625,000 \times \frac{A^{0.2}}{U^{0.9}}$	(Weld ductility Test) D ≥ 2 ⅜ in.																															
X52	0.26	1.40	0.030	0.030	Min. 66,000(455)	Min. 52,000(359)	$e = 625,000 \times \frac{A^{0.2}}{U^{0.9}}$	H = $\frac{3.07t}{0.07+3 t/D}$ (for Grades less than X 52)																															
P S L 2	B	0.22	1.20	0.025	0.015	60,000~110,000 (414~758)	35,000~65,000 (241~448)	$e = 625,000 \times \frac{A^{0.2}}{U^{0.9}}$	H = $\frac{3.05t}{0.05+3 t/D}$ (for Grades X 52)																														
	X42	0.22	1.30	0.025	0.015	60,000~110,000 (414~758)	42,000~72,000 (290~496)	$e = 625,000 \times \frac{A^{0.2}}{U^{0.9}}$																															
	X46	0.22	1.40	0.025	0.015	63,000~110,000 (434~758)	46,000~76,000 (317~524)	$e = 625,000 \times \frac{A^{0.2}}{U^{0.9}}$																															
	X52	0.22	1.40	0.025	0.015	66,000~110,000 (455~758)	52,000~77,000 (359~531)	$e = 625,000 \times \frac{A^{0.2}}{U^{0.9}}$																															
API 5CT	H-40	-	-	0.030	0.030	Min. 60,000 (414)	40,000~80,000 (276~552)	$e = 625,000 \times \frac{A^{0.2}}{U^{0.9}}$	(Grade H40) D/t ≥16 H=0.5D D/t <16 H=D(0.83-0.0206D/t) The weld shall be located at 90 deg.	Specified respectively in size and grade. Note : $P = \frac{(2 \cdot f \cdot YS \min \cdot t)}{D}$ or 3,000. Whichever is the smaller. (f: 0.6 for Grade H40, J55 and K55 larger than Label 1: 9⅝ or 0.8 for all other grades and sizes)																													
	J-55	-	-	0.030	0.030	Min. 75,000 (517)	55,000~80,000 (379~552)	$e = 625,000 \times \frac{A^{0.2}}{U^{0.9}}$	(Grade J55 & K55) D/t ≥16 H=0.65D 3.93≤D/t<16 H=D(0.980-0.0518D/t) D/t<3.93 H=D(1.104-0.0518D/t) The weld shall be located at 90 deg.																														
	K-55	-	-	0.030	0.030	Min. 95,000 (655)	55,000~80,000 (379~552)	$e = 625,000 \times \frac{A^{0.2}}{U^{0.9}}$																															

Project Used SeAH Pipes

Type of Project	Project Name	Location	Time	Standard
FACTORY	ASHTON FURNITURE CONSOLIDATION	VŨNG TÀU	2025-2026	ASTM A53 - A
FACTORY	MAPLETREE	ĐỒNG NAI	2025 - 2026	BS 1387 ASTM A53 - A
APARTMENT	SYCAMORE	BÌNH DƯƠNG	2025 - 2026	BS 1387 ASTM A53 - A
APARTMENT	EATON PARK	TP. HỒ CHÍ MINH	2025 - 2026	BS 1387 ASTM A53 - A
INFRASTRUCTURE	PASSENGER TERMINAL - LONG THANH AIRPORT	ĐỒNG NAI	2024-2026	BS 1387 ASTM A53 - A
APARTMENT	VŨNG TÀU PEARL	VŨNG TÀU	2024-2025	ASTM A53 - A
FACTORY	LOGICROSS NAM THUẬN	LONG AN	2024-2025	BS 1387
FACTORY	NITTO DENKO	BÌNH DƯƠNG	2024-2025	BS 1387 ASTM A53 - A
APARTMENT	STARLAKE B3CC1	HÀ NỘI	2024-2025	KS D 3507
FACTORY	TH DAIRY FARM	PHÚ YÊN	2024-2025	ASTM A53 - A
FACTORY	ASSA ABLOY VIỆT NAM	HẢI PHÒNG	2024-2025	ASTM A53 - A
HOSPITAL	HONG NGOC HOSPITAL PHASE 2	HÀ NỘI	2024-2025	ASTM A53 - A
HOTEL	PULLMAN NINH BÌNH	NINH BÌNH	2024-2025	BS 1387 ASTM A53 - A
FACTORY	COCA-COLA	LONG AN	2024-2025	BS 1387 ASTM A53 - A
SCHOOL	VAN LANG UNIVERSITY CS3	TP. HỒ CHÍ MINH	2024-2025	BS 1387 ASTM A53 - A
APARTMENT	THE TEN	BÌNH DƯƠNG	2024-2025	BS 1387 ASTM A53 - A
FACTORY	PANDORA	BÌNH DƯƠNG	2024-2025	BS 1387 ASTM A53 - A
COMPLEX	THE GRAND HÀ NỘI	HÀ NỘI	2023-2025	BS 1387 ASTM A53 - A
COMPLEX	TIẾN BỘ PLAZA	HÀ NỘI	2023-2025	BS 1387 ASTM A53 - A
COMPLEX	DAEWOO	HÀ NỘI	2023-2025	BS 1387 ASTM A53 - A
BUILDING	THE SUN TOWER BASON	TP. HỒ CHÍ MINH	2023-2025	BS 1387 ASTM A53 - A
COMPLEX	IXORA HỒ TRÀM	BÀ RỊA-VŨNG TÀU	2025	BS 1387 ASTM A53 - A

Project Used SeAH Pipes

Type of Project	Project Name	Location	Time	Standard
COMPLEX	HYAT HỒ TRÀM	BÀ RỊA-VŨNG TÀU	2025	BS 1387 ASTM A53 - A
APARTMENT	EMERALD 68	BÌNH DƯƠNG	2025	BS 1387 ASTM A53 - A
COMPLEX	WEST VILLAGE - HON THOM	PHÚ QUỐC	2025	BS 1387 ASTM A53 - A
APARTMENT	LAPURA	BÌNH DƯƠNG	2025	BS 1387 ASTM A53 - A
APARTMENT	ESTUARY	ĐÀ NẴNG	2025	BS 1387 ASTM A53 - A
COMPLEX	VEGA CITY	NHA TRANG	2025	BS 1387 ASTM A53 - A
APARTMENT	VICTORIA VILLAGE	TP. HỒ CHÍ MINH	2025	BS 1387 ASTM A53 - A
APARTMENT	THE GRAND MANHATTAN	TP. HỒ CHÍ MINH	2025	BS 1387 ASTM A53 - A
APARTMENT	K8HH1	HÀ NỘI	2025	BS 1387 ASTM A53 - A
APARTMENT	ST5	TP. HỒ CHÍ MINH	2025	BS 1387 ASTM A53 - A
FACTORY	WANEK 3&5	BÌNH DƯƠNG	2025	ASTM A53 - A
FACTORY	HYOSUNG	VŨNG TÀU	2025	ASTM A53 - A
BUILDING	LOTUS TOWER	TP. HỒ CHÍ MINH	2025	BS 1387 ASTM A53 - A
FACTORY	SHOWA GLOVES	BÌNH DƯƠNG	2025	BS 1387 ASTM A53 - A
THERMOELECTRIC PLANT	QUANG TRACH I THERMAL POWER PLANT	QUẢNG BÌNH	2025	BS 1387 ASTM A53 - A
FACTORY	NAM KIM STEEL ROOFING SHEETS	VŨNG TÀU	2025	BS 1387 ASTM A53 - A
HIGHWAY	GO DAU - XAMAT HIGHWAY	TÂY NINH	2025	BS 1387 ASTM A53 - A
BUILDING	NOREA CENTER	CABODIA	2025	BS 1387 ASTM A53 - A
FACTORY	SMC	ĐỒNG NAI	2024	BS 1387 ASTM A53 - A
FACTORY	PEPSI HÀ NAM	HÀ NAM	2024	BS 1387 ASTM A53 - A
FACTORY	STRONKIN VIỆT NAM	VŨNG TÀU	2024	BS 1387 ASTM A53 - A
FACTORY	SAIGON TOBACCO	TP. HỒ CHÍ MINH	2024	BS 1387 ASTM A53 - A

Project Used SeAH Pipes

Type of Project	Project Name	Location	Time	Standard
HIGHWAY	QUANG NGAI - HOAI NHON HIGHWAY	QUẢNG NGÃI	2024	BS 1387 ASTM A53 - A
FACTORY	CHECK POINT	BÌNH DƯƠNG	2024	BS 1387 ASTM A53 - A
SCHOOL	NGUYỄN THỊ MỘT HIGH SCHOOL	LONG AN	2024	BS 1387 ASTM A53 - A
FACTORY	COHERENT VIỆT NAM	KCN NHƠN TRẠCH 1	2024	BS 1387 ASTM A53 - A
FACTORY	LEGO	BÌNH DƯƠNG	2024	BS 1387 ASTM A53 - A
FACTORY	PESI LONG AN	LONG AN	2024	BS 1387 ASTM A53 - A
HOTEL	HYATT HẠ LONG	QUẢNG NINH	2023-2024	BS 1387 ASTM A53 - A
HOTEL	GELEX HOTEL	HÀ NỘI	2023-2024	BS 1387 ASTM A53 - A
APARTMENT	D-AQUA	TP. HỒ CHÍ MINH	2023-2024	BS 1387 ASTM A53 - A
FACTORY	WELSTORY VIỆT NAM	BẮC NINH	2023-2024	BS 1387 ASTM A53 - A
APARTMENT	CELESTA RISE	TP. HỒ CHÍ MINH	2023-2024	BS 1387 ASTM A53 - A
APARTMENT	URBAN GREEN	TP. HỒ CHÍ MINH	2023-2024	BS 1387 ASTM A53 - A
FACTORY	TTI	TP. HỒ CHÍ MINH	2023-2024	BS 1387 ASTM A53 - A
FACTORY	FRASER	BÌNH DƯƠNG	2023-2024	BS 1387 ASTM A53 - A
THERMOELECTRIC PLANT	VAN PHONG I THERMAL POWER PLANT	KHÁNH HÒA	2022 - 2024	BS 1387 ASTM A53 - A
BUILDING	LAO'S NATIONAL PARLIAMENT BUILDING	LÀO	2019 - 2020	BS 1387 ASTM A53 - A
RESORT	SWISSTOUCHES LALUNA RESORT	KHÁNH HÒA	2020	BS 1387 ASTM A53 - A
BUILDING	ASIANA CAPELLA	TP. HỒ CHÍ MINH	2020	BS 1387
BUILDING	HA DO CENTROSA GARDEN	TP. HỒ CHÍ MINH	2018	BS 1387 ASTM A53 - A
HOTEL	PULLMAN HOTEL HAIPHONG	HẢI PHÒNG	2019	BS 1387 ASTM A53 - A
BUILDING	HEADQUARTERS OF VIETTEL MILITARY TELECOMMUNICATIONS GROUP	HÀ NỘI	2018 - 2020	BS 1387 ASTM A53 - A
RESORT	VITOURS HOANG CUONG LUXURY TOURIST AREA & DA NANG HOTEL	ĐÀ NẴNG	2020	ASTM A53 - A







Member of the FM Global Group

Certificate of Compliance

This certificate is issued for the following:

Steel Pipe for Automatic Fire Sprinkler Systems

Steel Pipe Manufactured to:
 ASTM A35 / A35M Schedule 40
 ASTM A795 / A795M Schedule 40
 ASTM A135 / A135M Schedule 40
 Sizes 1 through 8 inch NPS
 (See Attached Table for Additional Details)

Prepared for: **SaGİ Steel America Inc, 2100 Main St, Suite 100
 Irvine, CA 92614, United States**

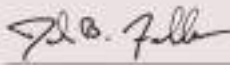
Manufacturing Location: **SaAH Steel Vin Corp, No. 7, 3A Road Bien Hoa II Industrial Zone
 Dong Nai, Vietnam**

FM Approval Class: **1600 - "Steel Pipe for Automatic Fire Sprinkler Systems"**

Approval Identification: **3066273** Approval Granted: **March 28, 2017**

To verify the availability of the Approved product, please refer to www.fmaglobal.com

Said Approval is subject to satisfactory field performance, continuing surveillance, audits, and strict conformity to the construction as shown in the Approved Guide, an online resource of FM Approvals.


David B. Fuller
 VVP, Manager – Fire Protection
 FM Approvals
 1131 Boston-Providence Turnpike
 Needham, MA 02462
 USA

Page 1 of 2





Member of the FM Global Group

Certificate of Compliance

This certificate is issued for the following:

Steel Pipe for Automatic Fire Sprinkler Systems

Product	Listing Country	Nominal Pipe Size, in.	Rated Working Pressure, psi	Rated Working Pressure, MPa	Certification Type
Schedule 40 ¹ 11.3.1.1.1	United States of America	1, 1-1/4, 1-1/2, 2	115	7.93	FM Approved
Schedule 40 ¹ 11.3.1.1.2	United States of America	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 5, 6, 8	300	20.70	FM Approved

Notes:

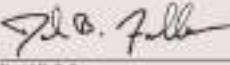
- a - FM Approved for use with FM Approved pipe fittings as listed or not pressure
- b - FM Approved for use with FM Approved pipe fittings when threaded
- c - FM Approved for use in wetted systems when supplied with standard bevel on ends
- d - When not slip gasketed by factory, the sprinkler pipe is FM Approved for dry pipe systems
- e - Any FM Approved pipe coating or fitting suitable for use with Schedule 10 pipe may be used with this product at the lesser rated pressure of the pipe or the fitting
- f - FM Approved for use with pipe-end fittings
- g - FM Approved for use in all steel sprinkler systems composed of annealed steel pipe
- h - Manufactured per ASTM A35 / A35M Grade A steel
- i - Manufactured per ASTM A795 / A795M Grade A as an alternate material
- j - Manufactured per ASTM A135 / A135M Grade B as an alternate material

FM Approval Class: **1600 - "Steel Pipe for Automatic Fire Sprinkler Systems"**

Approval Identification: **3066273** Approval Granted: **March 28, 2017**

To verify the availability of the Approved product, please refer to www.fmaglobal.com

Said Approval is subject to satisfactory field performance, continuing surveillance, audits, and strict conformity to the construction as shown in the Approved Guide, an online resource of FM Approvals.


David B. Fuller
 VVP, Manager – Fire Protection
 FM Approvals
 1131 Boston-Providence Turnpike
 Needham, MA 02462
 USA

Page 2 of 2




Certificate of Compliance

This certificate is issued for the following:

Schedule 10 Steel Sprinkler Pipe
 Sizes: 1-1/4 through 8 inch NPS
 (See table below)

Prepared for:

SeAH Steel Vina Corporation
 No. 7, 3A Road Bien Hoa II Industrial Zone
 Dong Nai
 Vietnam

Manufactured at:

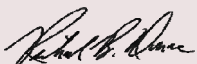
SeAH Steel Vina Corporation
 No. 7, 3A Road Bien Hoa II Industrial Zone
 Dong Nai
 Vietnam

FM Approvals Class: 1630

Approval Identification: 0003039459 Approval Granted: May 4, 2011

Said Approval is subject to satisfactory field performance, continuing follow-up Facilities and Procedures Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

For more than 160 years FM Approvals has partnered with business and industry to reduce property losses.


 Richard B. Dunne
 Group Manager -Hydraulics
 FM Approvals
 1151 Boston-Providence Turnpike
 Norwood, MA 02062




Certificate of Compliance

Product	Listing Country	Nominal Pipe Size, inch.	Rated Working Pressure, psi	Rated Working Pressure, kPa	Remarks
Schedule 10	Vietnam	1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 5, 6, 8	300	2070	c, d, e

Notes:

c.	FM Approved for use in welded systems when supplied with standard bevel on both ends.
d.	When hot dip galvanized by factory, the sprinkler pipe is FM Approved for dry pipe systems.
e.	Any FM Approved pipe coupling or fitting suitable for use with Schedule 10 pipe may be used with this product at the lower rated pressure of the pipe or the fitting.

Approved Certifications





UL the standard in safety

Underwriters Laboratories

File: EX15856 Vol. 8 Issued: 2017-12-19 Revised: 2017-12-19

TESTING OF SERVICE PROCEDURE
TYPE E

METALLIC SPRINKLER PIPE
(V121, V1217)

Manufacturer: SEAH STEEL VINA CORPORATION
(157856-018)
NO 7 ST 3A
BIEN HOA II INDUSTRIAL ZONE
DONG NAI DIST HAI

Model: 8522-001
TYPE E
8522-001 F10000 8522
NOMINAL DIAMETER 1/2 IN

System: TYPE A METALLIC SPRINKLER PIPE (157856-018)

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc. (UL) or any authorized licensee of UL, only on products covered by this procedure, in accordance with the applicable UL Business Agreement.

The prescribed back of marking shall be used only at the above manufacturing location on each product which complies with this procedure and any other applicable requirements.

The Procedure contains information for the use of the above listed trademarks and responsibilities of Underwriters Laboratories Inc. and is not to be used for any other purpose. It is left to the manufacturer with the understanding that it is to be copied, stored, used, or in part, and that it will be returned to Underwriters Laboratories Inc. (UL) or any authorized licensee of UL upon request.

This procedure, with any subsequent revision, is the property of Underwriters Laboratories Inc. (UL) and the authorized licensee of UL and is not transferable.

Underwriters Laboratories Inc.

George B. Basso
George B. Basso
Senior Vice President
Global Follow-Up Service Operations

William E. Carey
William E. Carey
President
North American Certification Program

CERTIFICATE OF COMPLIANCE

Certificate Number 20170112-EX15856
Report Reference EX15660-20101027
Issue Date 2017-JANUARY-12

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Schedule 10 steel pipe in the 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, and 4 in. sizes as per ASTM A 135, Grade A, Type E.

Schedule 10 steel pipe in the 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 6 and 8 in. sizes as per ASTM A 795, Grade A, Type E.

Schedule 40 steel pipe in the 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2 and 4 in. sizes as per ASTM A 135, Grade A, Type E.

Schedule 40 steel pipe in the 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 5, 6 and 8 in. sizes as per ASTM A 795, Grade A, Type E.

Seah Steel SVF Flow steel sprinkler pipe, 1-1/4 through 4 in. nominal diameter for wet, dry, preaction and deluge type sprinkler systems with unthreaded ends intended to be joined by welding or by listed rubber gasketed fittings as indicated under the category of Fittings, Rubber Gasketed (VIZM) when installed in accordance with the fitting manufacturer's installation instructions where the rated pressures and corrosion resistance ratios (CRR) are as follows:

Pipe Size, in.	Rated Pressure, psig	UL CRR Unthreaded	UL CRR Unthreaded
1-1/4	300	2.07	0.15
1-1/2	300	3.82	0.31
2	300	3.10	0.26
2-1/2	300	1.78	0.11
3	300	1.48	0.11
4	300	1.10	0.10

UL
Underwriters Laboratories Inc.
Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/customer-service.

Page 2 of 2

CERTIFICATE OF COMPLIANCE

Certificate Number 20170112-EX15856
Report Reference EX15660-20101027
Issue Date 2017-JANUARY-12

Issued to: SEAH STEEL VINA CORPORATION
NO 7 ST 3A
BIEN HOA II INDUSTRIAL ZONE
DONG NAI VIET NAM

This is to certify that representative samples of METALLIC SPRINKLER PIPE
See Addendum Page for Models/Product

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 852, Metallic Sprinkler Pipe for Fire Protection Service.
ULC/ORD C199S, Light Wall Steel Pipes for Sprinkler Systems for Fire Protection Service.

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

UL
Underwriters Laboratories Inc.
Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/customer-service.

Page 1 of 2

Approved Certifications





SEAH STEEL VINA CORPORATION
NO.7, STREET 3A, BINH HOA 2 INDUSTRIAL ZONE, LONG BINH TAN WARD, BINH HOA CITY,
DONG NAI PROVINCE, VIETNAM

This is a multi-site certification, additional details are listed on the next page(s)

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of
the above organisation has been audited and found to be in accordance with the requirements of
the management system standards described below

ISO 9001:2015
Scope of certification

MANUFACTURE OF ELECTRIC RESISTANCE WELDED PIPE (ERW PIPE) WITH SIZE RANGE:

- * NOMINAL BORE: 3/8" (10A) UP TO 8" (200A)
- * OUTSIDE DIAMETER: 15.9MM UP TO 219.1 MM
- * WALL THICKNESS: 0.8MM UP TO 12MM
- * S.H.S AND R.H.S WITH THICKNESS 0.8MM UP TO 7.0MM
- * LENGTH: MAX 12.850 METERS

Original cycle start date: 30-03-2016
Expiry date of previous cycle: NA
Certification / Recertification Audit date: NA
Certification / Recertification cycle start date: 11-03-2025
Subject to the continued satisfactory operation of the organisation's
Management System, this certificate expires on: 29-03-2028

Certificate No.: VM01312B Version: 1 Issue date: 11-03-2025



Hauren Thai Thao Vy - Certification Manager
Signed on behalf of BVCH SAS UK Branch
Certification Body Address: 30 Finsbury, 300 London, Thames Street, London, EC2M 6RN, United Kingdom
Local Office: No. 36-38 Nguyen Van Thu Street, Ward 15, Phu Nhuan District, Ho Chi Minh City, Vietnam

Further Certification regarding the scope and validity of this certificate, and the applicability of the management system
requirements, please call: +65 28 3612 2146.
CDL CERT ALL THE BEST FOR U.S.

1/1 4 Nov 2025



Bureau Veritas Certification

SEAH STEEL VINA CORPORATION
NO.7, ROAD 3A, BINH HOA 2 INDUSTRIAL ZONE, LONG BINH TAN WARD, BINH HOA CITY,
DONG NAI PROVINCE, VIETNAM

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of
the above organisation has been audited and found to be in accordance with the requirements of
the management system standards described below

ISO 14001:2015
Scope of certification

MANUFACTURE OF ELECTRIC RESISTANCE WELDED PIPE (ERW PIPE) WITH SIZE RANGE:

- * NOMINAL BORE: 3/8" (10A) UP TO 8" (200A)
- * OUTSIDE DIAMETER: 15.9MM UP TO 219.1MM
- * WALL THICKNESS: 0.8MM UP TO 12MM
- * S.H.S AND R.H.S WITH THICKNESS 0.8MM UP TO 7.0MM
- * LENGTH: MAX 12.850 METERS

Original cycle start date: 05-04-2021
Expiry date of previous cycle: NA
Certification / Recertification Audit date: NA
Certification / Recertification cycle start date: 28-03-2024
Subject to the continued satisfactory operation of the organisation's
Management System, this certificate expires on: 04-04-2027

Certificate No.: VM011757 Version: 1 Issue date: 25-03-2024



Lou Thi Mai Huang - Certification Manager
Signed on behalf of BVCH SAS UK Branch
Certification Body Address: 30 Finsbury, 300 London, Thames Street, London, EC2M 6RN, United Kingdom
Local Office: No. 36-38 Nguyen Van Thu Street, Ward 15, Phu Nhuan District, Ho Chi Minh City, Vietnam

Further Certification regarding the scope and validity of this certificate, and the applicability of the management system
requirements, please call: +65 28 3612 2146.
UKAS Certificate Template Single Site Rev.4.1

1/1 25 Aug 2023



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RECOGNIZES

SeAH Steel Vina Corporation
Vietnam

AS COMPLYING WITH NSF/ANSI 372 AND ALL APPLICABLE REQUIREMENTS.
PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE
AUTHORIZED TO BEAR THE NSF MARK.



This certificate is the property of NSF International and must be returned upon request. This certificate remains valid as long as it is affixed to products in Listing for the referenced standards. For the most current and complete Listing information, please access NSF's website (www.nsf.org).

December 21, 2020

Certificate# C0582856 - 01

Theresa Bellish

Theresa Bellish

General Manager, Water Systems



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