This is a reproduction of a library book that was digitized by Google as part of an ongoing effort to preserve the information in books and make it universally accessible.



http://books.google.com

TIPPETT&WODD

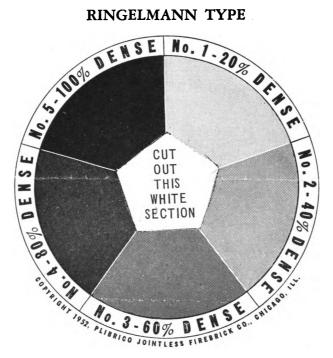


WATER TOWERS STAND PIPES GENERAL PLATE CONSTRUCTION

PHILLIPSBURG, N.J.

PLIBRICO SMOKE CHART

RINGELMANN TYPE



INSTRUCTIONS

This miniature Ringelmann smoke scale will enable the observer to conveniently grade the density of smoke issuing from the stack.

The scale should be held at arm's length at which distance the dots in the scale will blend into uniform shades.

Then compare the smoke (as seen through the hole) with the chart, determining the shade in the chart most nearly corresponding to the shade or density of the smoke. Experienced observers often record in half chart numbers. By recording the changes in smoke density, the average "percentage of smoke density" for any period of time can be determined.

Observer's line of observation should be at right angles to the direction of smoke travel.

Observer should not be less than 100 ft. nor more than ¼ mile from the stack.

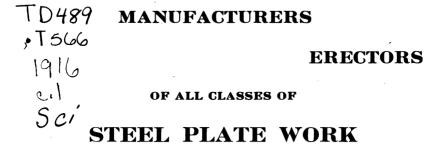
Observer should avoid looking towards bright sunlight. The background immediately beyond the top of the stack should be free of buildings or other dark objects.



ORGANIZED 1865

INCORPORATED 1891

DESIGNERS



MAKING A SPECIALTY OF

STAND PIPES

AND

WATER TOWERS

Digitized by Google

OFFICERS

S. TAYLOR WILSON		-	•	PRESIDEN	17
J. WHIT WOOD -	-	-	Vici	E PRES. & TREAS	5.
F. RAYMOND WOOD	-	-	-	- SECRETAR	Y
WM. A. BRUNNER	•	-	-	SUPERINTENDEN	т

MAIN OFFICE AND FACTORY

PHILLIPSBURG, N. J.

NEW YORK OFFICE, 135 WILLIAM ST.

SEE NEXT PAGE FOR LIST OF OUR PRODUCTS

1916

Products of Tippett & Wood

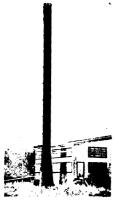
We are prepared to offer any of the following products to a customer and give him the benefit of fifty years of experience in this class of work, together with the assurance that the work will be done correctly, will not leave our plant until thoroughly inspected and its superior workmanship attested to by competent assistants.

Accessories for Water Towers and	Hydroylic Maine
Stand-Pipes	Hydraulic Mains Jacketed Tanks and Kettles
Accumulators	Ladles
Acid Tanks	Oil Tanks, Crude and Refined
Agitators	Products
Air Receivers	Penstocks
Bins	Plate Work
Blast Furnaces	Poles
Boilers	Pressure Tanks
Bosh Jackets	Railway Coaling Stations
Breechings for Stacks	Railway Water Stations
Buckets	Rectangular Tanks
Cable Towers	Riveted Pipe
Car Tanks	Smoke Stacks
Casings	Stand-Pipes
Caissons	Standard Water Towers
Clarifiers	Stills
Conveyor-Casings	Storage Tanks
Creosoting Tanks	Structural Supports for Wood or
Cyanide Tanks	Steel Tanks
Cylinders	Tanks of Steel for any purpose
Desiccators	Tanks for water softening
Drums	Trestles
Dryers	Troughs
Elevated Tanks above Buildings	Turntables
Filter Tanks	Water Jackets
Flumes	Water Towers to meet requirements
Fuel Oil Tanks	of Fire Insurance Associations
Furnace Work	Water Towers with Conical Bottom Tanks
Galvanizing Tanks	
Gas Holders	Water Towers with Elliptical Bot- tom Tanks
Heads, all sizes	Water Towers with Flat Bottom
Heaters	Tanks
Hearth Jackets	Water Towers with Hemispherical
Heavy Flange Work	Bottom Tanks
Hoppers	Vulcanizers

SUPERIOR TANKS

Digitized by Google

Steel Plate Work



F^{OR} the past fifty years we have been fabricating iron and steel plates into almost any conceivable form in commercial use. We have installed the heaviest hydraulic machinery for forming and riveting this class of work. Our plant has grown with our trade and is today equipped with the most modern electric, pneumatic and hydraulic machinery obtainable, some of which has been especially designed to meet our demand for superior workmanship.

The art of forming plates into a definite shape given on a detailed drawing, in such a way that no weakness can develop in any part of the product and so that the whole will have the full strength expected by the designer, required the constant attention and direction of our Superintendent's Department. Our long experience in this class of work and the command of a force of trained men, each an expert on some operation in the course of its fabrication, is in itself a valuable assurance that each product will be of unusual merit. We do not bevel shear the straight calking edges on water-tight work. We are the only plate manufacturing concern in the United States making a specialty of tank and tower work which, at the present time, possesses a planer capable of beveling tank plates full length, and we plane all straight caulking seams. We have found this to be the only certain way to insure tight work. The planer does not distort the plate like a shear does. Planed plates lay up smoothly and tightly. The edge is not rough but smooth and straight. Come and see them for yourself. You will never want any other.

It pays to do work right. If we do your work it will save you worry, maintenance expense and will certainly last longer. We invite you to inspect your order during its fabrication. It will not leave our plant until its correctness has been verified.

SUPERIOR TANKS

Digitized by GOOS (Page Three)



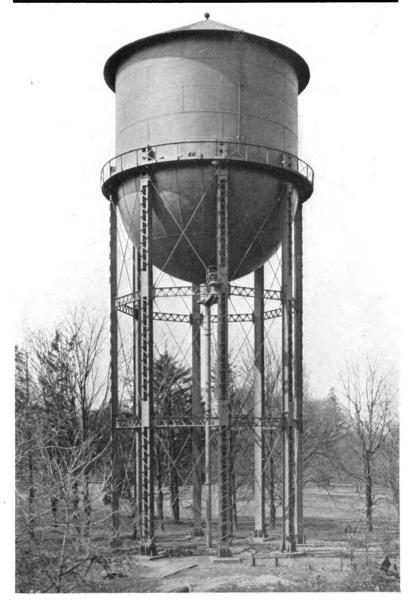
WATER TOWER FOR PRINCETON WATER CO. Diam. Tank 20 Ft., Height Cylinder 60 Ft., Height of Tower 60 Ft. Capacity 141,000 Gals.

Erected at Princeton, N. J., in 1883

This tower has been torn down and the tank re-erected for James E. Hulfish, at Lawrenceville, N. J. The material was found in excellent condition after 31 years of continuous service

SUPERIOR TANKS

(Page Four)

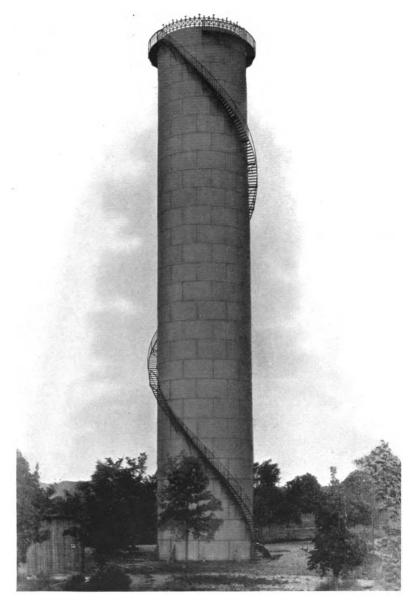


WATER TOWER FOR PRINCETON WATER CO. Diam. Tank 45 Ft., Height of Cylinder 30 Ft., Height of Tower 89'-6" to Balcony Capacity 537,000 Gals. Erected at Princeton, N. J., in 1914 This tower replaces the one on the opposite page also built by us

- SUPERIOR TANKS

Digitized by GOOglC(Page Five)





STAND-PIPE FOR PLAINFIELD WATER SUPPLY CO. Diam. 25 Ft., Height 140 Ft., Capacity 514,000 Gals. Erected at Plainfield, N. J. in 1890

Have you ever seen tank plates planed full length with a uniform beveled edge? We furnish them without extra charge. Specify them.

SUPERIOR TANKS

Digitized by Google



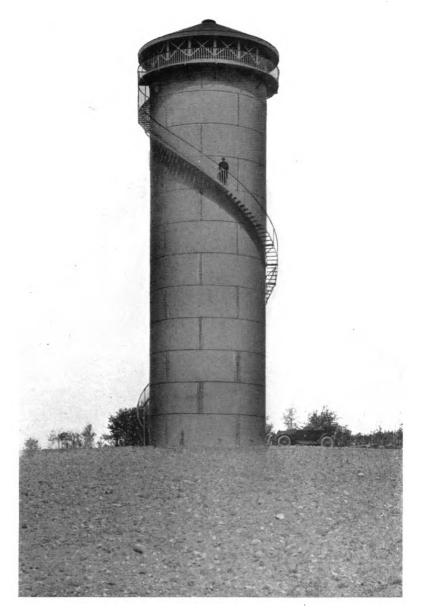
Steel Tanks

WE build steel tanks of all practical dimensions and for any purpose. We have made them of various shapes rectangular, round, elliptical, spherical, etc., and can advise you what will best suit your requirements for the liquid or other material stored and the space available.

A steel tank is economical for the storage of anything in commercial use. Steel tanks are used to store acids, coal tar, crude

and refined oils, linseed oil and paints, lime, coal, sand, molasses, beet sugar syrup, cyanide, galvanizing material, ammonia, creosote, turpentine, etc. We also build them for water or air pressure or for vacuums. A steel tank is by far superior to a wood tank. It is as permanent as a modern steel frame building and on account of being tight after once tested, requires no repairs except an occasional coat of paint. This cannot be said of wood tanks. Wood tanks may cost less to install but their life is comparatively short. They very often leak and cause trouble a short time after their installation and also on account of frequent failures are used in smaller numbers every year.

Steel tanks built by us have an actual factor of safety of from 4 to 10. This assures a long life proven by the fact that there are some in service today in excellent condition built between forty and fifty years ago. Each tank is designed for the special service it is intended for. Inform us of your requirements and the tank we build for you will be one that will best serve you. It will have the proper factor of safety and be riveted and caulked in a manner to give the greatest satisfaction. This we pride as the result of our many years of experience and it saves time and money for all concerned to know that a tank is tight and safe after completion.



STAND-PIPE FOR CONNECTICUT AGRICULTURAL COLLEGE Diam. 25 Ft., Height 80 Ft., Capacity 183,000 Gallons Erected at Storrs, Conn., in 1914

SUPERIOR TANKS

Digitized by Google

(Page Eight)



STAND-PIPE FOR THE SYRACUSE SUBURBAN WATER CO. Diam. 40 Ft., Height 80 Ft., Capacity 752,000 Gallons Erected at Syracuse, N. Y., in 1914

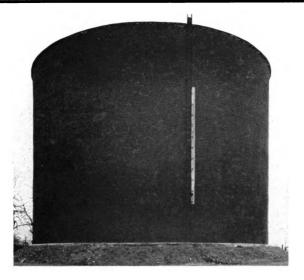


WATER TOWER FOR J. L. MOTT Trenton, N. J. Capacity 75,000 Gals., 60 Ft. to Tank Bottom Erected at Trenton, N. J., in 1913



STAND-PIPE FOR WILDWOOD WATER CO. Diam. 30 Ft., Height 110 Ft. Capacity 581,000 Gallons Erected at Wildwood, N. J., in 1906

SUPERIOR TANKS Digitized by Goog ((Page Nine)



TANK FOR BOROUGH OF BETHLEHEM Diam. 70 Ft., Height 50 Ft., Capacity 1,440,000 Gals. Erected at Bethlehem, Pa. in 1914



WATER TOWERS FOR THE ATLAS PORTLAND CEMENT CO. Capacity 100,000 Gals., Height 100 Ft. to

Bottom of Tank Capacity 40,000 Gals., Height 58 Ft. to Bottom of Tank

Erected at Northampton, Pa. in 1907

A steel tank or water tower properly designed and built is a permanent structure Its cost of maintenance is simply the cost of an occasional coat of paint. Concrete has been proven to be too porous to be a satisfactory material. Wood can be utilized on small construction only, and is comparatively short-lived.

Submit your problem to an expert and he will probably cause a substantial saving and you will be assured of the best results.

Digitized by Google

Stand-Pipe or Water Tower



E^{VERY} pumping installation should have a stand-pipe or a water tower. The high cost of pumping water directly into the mains has made the use of one of these a necessity. An elevated reservoir furthermore is desirable for storing an efficient amount of water for fire protection and insures a uniform head on the mains always above the minimum.

Having decided upon a minimum head for the system, the topographical condition

in the immediate vicinity of the water works and the locality to be supplied with water, will indicate the economy of the use of either the water tower or stand-pipe. Nature has provided a tower in the form of an elevated projection of land within the economic reach of most municipalities. Where elevated land is available near the water works or within the municipality the advantage of the steel reservoir or stand-pipe is at once apparent. On the other hand if the water system is in an absolutely flat country and the water below the minimum desired head cannot be used advantageously, the water tower should be specified.

The water tower can be erected at most any location and at any elevation. The higher the elevation required to store a definite quantity of water, the cheaper the water tower is in comparison with a stand-pipe erected on the same site. For high elevations the cost of a stand-pipe may be several times that of a water tower. On the other hand where a stand-pipe can be used to advantage, several times as much water can be stored in it as could be carried by a water tower at the same cost.

We have a competent staff of engineers experienced in this line of work, who are at all times at your service and who can give you valuable suggestions without placing you under any obligations to us.

SUPERIOR TANKS

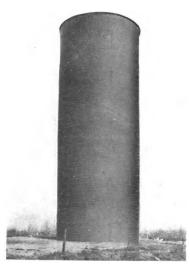
Digitized by GOOG (Page Eleven)



WATER TOWER FOR WYOMING VALLEY LACE MILLS Capacity 40,000 Gals., Height 85 Ft. to Bottom of Tank Erected at Wilkesbarre, Pa., in 1911



WATER TOWER FOR HEMMING MFG. CO. Capacity 10,000 Gals., Height 26 Ft. to Bottom of Tank Erected at Garfield, N. J., in 1910

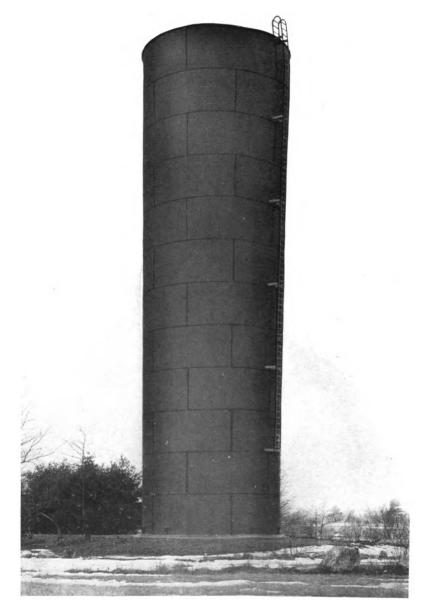


STAND-PIPE FOR GUILFORD CHESTER WATER CO. Diam. 32 Ft., Height 85 Ft. Capacity 511,000 Gals. Erected at Guilford, Conn., in 1914



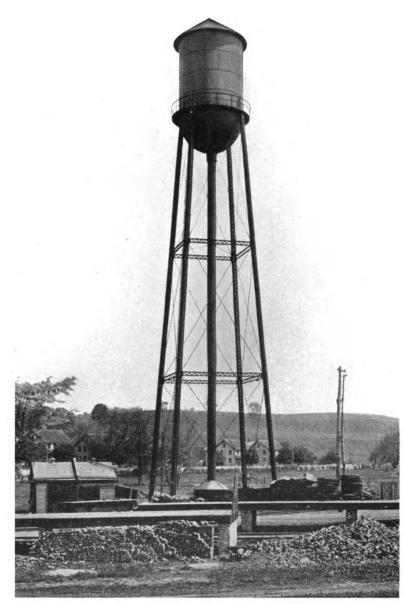
WATER TOWER FOR MUNICIPAL WATER WORKS Capacity 30,000 Gals., Height 75 Ft. to Bottom of Tank Erected at Walterboro, S. C.

Digitized by Google



STAND-PIPE FOR TOWN OF HAMPTON Diam. 25 Ft., Height 85 Ft., Capacity 322,000 Gals. Erected at Hampton, N. H., in 1914

> SUPERIOR TANKS ______ Digitized by GOOS (Page Thirteen)



WATER TOWER FOR THE AMERICAN SNUFF CO. Capacity 50,000 Gals., Height 100 Ft. to Bottom of Tank Erected at Yorklyn, Del. in 1910

SUPERIOR TANKS ______ Digitized by Google

(Page Fourteen)



Towers

THE two standard designs of tanks and towers which we build are given on pages 18 and 19. There are several hundred of our towers throughout the U. S. but we have never had a failure nor has it ever been necessary to repair any of them. There are several instances, however, where towers and stand-pipes we built have been replaced by us with some of larger capacity and our product was given a preference over any other. This is the best proof of the satisfaction obtained in having one of our installations.

If you order one of our standard towers you are absolutely sure that it is safe. No tower built by us has a factor of safety of less than four during a severe wind storm. The fact that several hundred are in use now and some have been in use for many years, is much more important and reliable than any theoretical analysis of something that might be just as good. We have not only carefully designed these towers but have put them to the most severe tests.

The capacity of these towers is always slightly in excess of the nominal. We are building them continually from the same templets. Every mechanic, in the process of the fabrication, knows just what to expect next and how it must be done. The result is that these towers are made correctly and with the greatest economy. All work is inspected before leaving our plant to insure its correctness and completeness. We desire that you see some of our installations, either stand-pipes or water towers, and will at any time upon request give you a list with addresses of those nearest your location.

We build and erect towers to suit any plans. There are many of our installations on the tops of buildings. We furnish towers to support wood tanks and have installed many for sprinkler service with either wood or steel tanks.

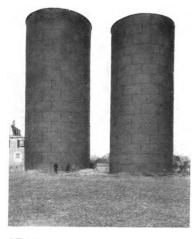
We offer information on tower and stand-pipe design for your particular requirements. If you are limited in room we can inform you how one of our standard towers can be used which will afford an appreciable saving over the cost of a special design.

SUPERIOR TANKS

Digitized by GOO Page Fifteen)



TANK FOR OVERBROOK ASYLUM Diam. 60 Ft., Height 30 Ft., Capacity 634,000 Gals. Erected at Overbrook, N. J., in 1908



STAND-PIPES FOR SPRINGFIELD WATER CO. Diam. 35 Ft., Height 80 Ft. Capacity 575,000 Gals. Erected at Chestnut Hill, Philadelphia, Pa., in 1899

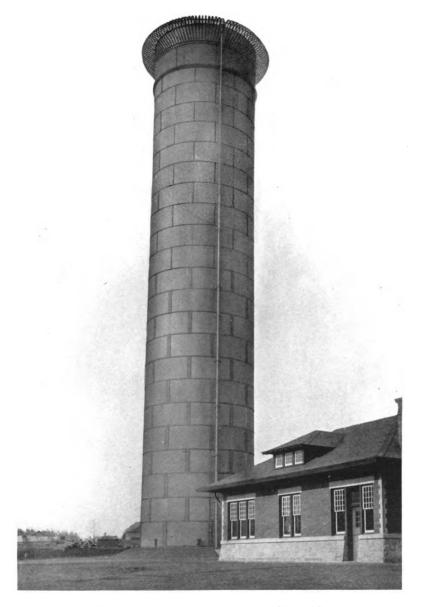


WATER TOWER FOR THE TOWN OF HAMLET

Capacity 150,000 Gals., Height 75 Ft. to Bottom of Tank

Erected at Hamlet, N. C., in 1908

Digitized by Google



STAND-PIPE FOR LEHIGH WATER CO. Diam. 25 Ft., Height 120 Ft., Capacity 440,000 Gals. Erected at Easton, Pa., in 1903

SUPERIOR TANKS

Digitized by GO (Page Seventeen)

1

Standard Water Towers

	Capacity in U. S. Gallens	Diameter "D" in Feet	Height ***** Feet and inches	Width Balcony in Inches
D +	7500	10	9_9	18
	10000	īi	10-8	,,
	15000	12	14-0	,,
T I	20000	14	13-0	,,
	25000	14	17-3	"
+	30000	16	14-11	24
	35000	16	18-3	,, ,,
	40000	18	15-3	,, ,,
	45000	18	17-11	,,
Ь.	50000	18	20-6	,,
물	55000	20	17-0	.,
	60000	20	19-2 21-3	,,
Ī	65000	20	23-3	,,
	70000 75000	20	19-3	,,
	80000	22	21-0	,,
	85000	22	22-10	,, ′
	90000	22	247	,,
	95000	22	26-5	,,
	100000	20 22 22 22 22 22 22 22 22 22 24	21-9	27
	110000	24	24-9	**
-	120000	24	27-9	**
	125000	25	25-11	,,
	130000	25	27-4	,,
\ н	140000	26	26-11	30
	150000	26	29-5	,, ,,
	160000	28	25-8	,,
	170000	28-	27-10 28-11	,,
AL I	175000	28		
	180000 190000	20	26-3	,,
V N 1	200000	24 25 25 26 28 28 28 28 30 30 35 35 38 38 38 40	28-3	,,
λN	250000	32	31-1	36
	300000	35	30-3	"
W I	350000	35	37-3	,,
	400000	38	34-9	**
	450000	38	40-6	**
ـ الملاجم	500000	40	40-3	,,
	600000	45 45	359	**
	700000	45	43-1	,, ,,
	750000	45	47-3	,,
	800000	50	38-3	,,
	900000	50 50	45-0	,,
	1900000	50	· 518	

Dimensions of Tanks

We have templets on hand for the above sizes of tanks. We also have templets for the details of standard towers supporting these tanks. In your inquiry you need state only the capacity of tank and the height of tower "H" which is the elevation of the bottom of the tank above the cap stones. When requested, our quotation will include an expansion joint for the size riser pipe you require. This is fitted with a brass sleeve and is connected directly to the tank bottom. We also quote on riser pipes, frost casings, indicator boards, steam pipes and foundations when requested. We erect these tanks anywhere and request that you give us as much information as possible about the site of erection.

Please note that our tanks are all 3 inches higher than necessary to give the indicated capacity.

Capacity U. S. Gallens	Diameter "D" in Feet	Height ''T'' Feet and Inches	Height "W" Feet and Inches
10000 15000 25000 30000 35000 40000 50000 60000 75000 80000 100000 125000 150000 150000	12 14 16 18 20 20 22 24 24 24 26 28 30	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	13-014-114-818-017-520-019-023-324-024-024-025-627-029-430-10
175000 175000 200000 200000 380000 480000 500000 680000 780000 800000 980000 980000 1000000	32 32 35 38 40 45 50 50 55 55 55 55	$ \begin{array}{r} 19-4\\ 23-6\\ 24-2\\ 30-3\\ 77-11\\ 25-0\\ 31-10\\ 35-3\\ 27-6\\ 33-0\\ 38-9\\ \end{array} $	$\begin{array}{c c} 31-10\\ 36-0\\ 37-8\\ 38-6\\ 46-3\\ 46-5\\ 46-5\\ 46-0\\ 52-10\\ 56-3\\ 50-6\\ 56-0\\ 61-9\end{array}$

Dimensions of Tanks

- 0

We have templets on hand for most of the above tanks which are used largely by Railroads. The most common sizes are the same as the P. R. R. standard design and we furnish the latter company many each year. These tanks are 3 inches higher than necessary to hold the indicated capacity. The height "W" is the distance between high and low water levels. The tank holds more than the indicated capacity between these levels. The height of the tower "H" is the elevation of the low water level above the cap stones. In your inquiry please state the capacity and height "H" desired. We will furnish a revolving ladder in place of stationary one when called for in the inquiry.

Each tower has a downleg riveted to the centre of tank bottom which is from 4 to 6 feet in diameter according to the size of tank. A detail of our standard construction is shown on page 39. The pipe connections at bottom are made to suit your requirements.

SUPERIOR TANKS

Digitized by GOOPage Nineteen)

Dimensions and Weights of Bell and Spigot Cast Iron Pipe

Nominal Inside Diamotor, Inches		00 FT. H LBS. PRE			00 FT. H LBS. PR			DO FT. HI Lbs. pre	lbs. Lead Per thes Thick	e Ibs. Hemp Joint	
Nomina amotor	Thick- ness	Weigl	nt Per			Thick- ness	Weig	Approximate lbs. Joint 2 Inches	Approximate Per Jo		
	inches	Foet	Length	inches	Feot	Length	inches	Foot	Length	Appro: Join	Appr
3	.39	14.5	175	.42	16.2	194	.45	17.1	205	6.00	.18
4	.42	20.0	240	.45	21.7	260	.48	23.3	280	7.50	.21
6	.44	30.8	370	.48	33.3	400	.51	35.8	430	10.25	.31
8	.46	42.9	515	.51	47.5	570	.56	52.1	625	13.25	.44
10	.50	57.1	685	.57	63.8	765	.62	70.8	850	16.00	.53
12	.54	72.5	870	.62	82.1	985	.68	91.7	1100	19.00	.61
14	.57	89.6	1075	.66	102.5	1230	.74	116.7	1400	22.00	.81
16	.60	108.3	1300	.70	125.0	1500	.80	143.8	1725	30.00	.94
18	.64	129.2	1550	.75	150.0	1800	.87	175.0	2100	33.80	1.00
20	.67	150.0	1800	.80	175.0	2100	.92	208.3	2500	37.00	1.25
24	.76	204.2	2450	.89	233.3	2800	1.04	279.2	3350	44 00	1.50
30	.88	291.7	3500	1.03	333.3	4000	1.20	400.0	4800	54.25	2.06
36	.99	391.7	4700	1.15	454.2	5450	1.36	545.8	6550	64.75	3.00
42	1.10	512.5	6150	1.28	591.7	7100	1.54	716.7	8600	75.25	3.62
48	1.26	666.7	8000	1.42	750.0	9000	1.71	908.3	10900	85.50	4.37
54	1.35	800.0	9600	1.55	933.3	11200	1.90	1141.7	13700	97.60	6.25
60	1.39	916.7	11000	1.67	1104.2	13250	2.00	1341.7	16100	108.30	8.25
72	1.62	1281.9	15380	1.95	1547.3	18570	2.39	1904.3	22850	131.25	12.50
84	1.72	1635.8	19630	2.22	2104.1	25250				152.00	15.00

SUPERIOR TANKS

Digitized by Google

Capacities of Cylinders and Tank Bottoms. Circumference of and Area Enclosed by Cylinders

=	Gallons Vortical I Cylindor	U. S. Gallons in Neutspherical Bettom			2	U. S. Gallens Per Vertical Ft. of Cylinder	Circumference of Cylinder	Area of Circle
통물	252		cumferen ef Cylinder	krea ef Circle	i i i i i i i i i i i i i i i i i i i). Gallee: /ertical Cylieder	umferenc Cyllader	5
Diameter Foot	5 L T	~	Circemference ef Cylinder	A D	Diametor Feet	~ ~ ~ ~	er C	
	ವ ಷಿ ಜಿ		5			- ž -	5 •	And And
1	5.9	1.9	3.1416	.7854	51	15.281	160.221	2012.8
2	23.5	15.6	6.2832	3.1416	52	15.887	163.363	2123.7
3	52.9	52.9	9.4248	7.0686	53	16.503	166.504	2206.2
4	94.0	124	12.566	12.566	54	17.132	169.646	2290.2
5	146.9	245	15.708	19.635	55	17.772	172.788	2375.8
6	211.5	423	18.850	28.274	56	18.425	175.929	2463.0
7	287.9	672	21.991	38.485	57	19.089	179.071	2551.8
8	376.0	1003	25.133	50.265	58	19.764	182.212	2642.1
9	475.9	1427	28.274	63.617	59	20.452	185.354	2734.0
10	587.5	1958	31.416	78.540	60	21.151	188.496	2827.4
11	711	2607	34.558	95.033	61	21.862	191.637	2922.5
12	846	3385	37.699	113.10	62	22.584	194.779	3019.1
13	993	4303	40.841	132.73	63	23.319	197.920	3117.2
14	1152	5374	43.982	153.94	64	24.065	201.062	3217.0
15	1322	6610	47.124	176.71	65	24.823	204.204	3318.3
16	1504	8022	50.265	201.06	66	25.592	207.345	3121.2
17	1698	9621	53.407	226.98	67	26.374	210.487	3525.7
18	1904	11422	56.549	254.47	68	27.167	213.628	3631.7
19	2121	13432	59.690	283.53	69	27.972	216.770	3739.3
20	2350	15667	62.832	314.16	70	28.788	219.911	3848.5
21	2591	18137	65.973	346.36	71	29.617	223.053	3959.2
22	2844	20853	69.115	380.13	72	30.457	226.195	4071.5
23	3108	23828	72.257	415.48	73	31.309	229.336	4185.4
24	3384	27073	75.398	452.39	74	32.173	232.478	4300.8
25	3672	30600	78.540	490.87	75	33.048	235.619	4417.9
26	3972	34421	81.681	537.93	76	33.935	238.761	4536.5
27	4283	38547	84.823	572.56	77	34.834	241.903	4656.6
28	4606	42991	87.965	615.75	78	35.745	245.044	4778.4
29	4941	47763	91.106	660.52	79	36.667	248.186	4901.7
30	5288	52877	94.248	706.86	80	37.601	251.327	5026.5
31	5646	58342	97.389	754.77	81	38.547	254.469	5153.0
32	6016	64170	100.531	804.25	82	39.505	257.611	5281.0
33	6398	70378	103.673	855.30	83	40.474	260.752	5410.6
34	6792	76976	106.814	907.92	84	41.455	263.894	5541.8
35	7197	83965	109.956	962.11	85	42.448	267.035	5674.5
36	7614	91368	113.097	1017.9	86	43.453	270.177	5808.8
37	8043	99197	116.239	1075.2	87	44.469	273.319	5944.7
38	8484	107464	119.381	1134.1	. 88	45.498	276.460	6082.1
39	8936	116168	122.522	1194.6	89	46.537	279.602	6221.1
40	9400	125333	125.664	1256.6	90	47.589	282.743	6361.7
41	9876	134972	128.805	1320.3	91	48.653	285.885	6503.9
42	10364	145096	131.947	1385.4	92	49.727	289.027	6647.6
43	10863	155703	135.088	1452.2	93	50.815	292.168	6792.9
44	11374	166819	138.230	1520.5	94	51.913	295.310	6939.8
45	11897	178455	141.372	1590.4	95	53.024	298.451	7088.2
46	12432	190624	144.513	1661.9	96	54.146	301.593	7238.2
47	12978	203322	147.655	1734.9	97	55.280	304.734	7389.8
48	13536	216576	150.796	1809.6	98	56.425	307.876	7543.0
49	14106	230398	153.938	1885.7	99	57.583	311.018	7697.7
50	14688	244800	157.080	1963.5	100	58.752	314.159	7854.0

	Inch of Screw	27	18	18	14	14	11}	ĨIJ	113	113	90	80	90	30	*	80	90	s o	s o	80	x 0	*	80
Nominal Weisht ser	Foot	.241	.420	.559	.837	1.115	1.668	2.244	2.678	3.609	5.739	7.536	100'6	10.665	12.340	14.502	18.762	23.271	28.177	33.701	40.065	45.950	48.985
REAS	Metal	.0720	.1249	.1669	.2503	.3327	.4972	.6685	:7995	1.074	1.712	2.238	2.680	3.175	3.675	4.321	5.586	6.921	8.405	10.040	11.940	13.401	14.590
TRANSVERSE AREAS	Internai	.0568	.1041	906 1.	.3039	.5333	6098.	1.496	2.038	3.356	4.780	7.388	9.887	12.730	15.961	19.985	28.886	38.743	50.021	62.722	78.822	95.034	113.098
TRAN	External	.129	.229	.358	.554	.866	1.358	2.164	2.835	4.430	6.492	9.621	12.566	15.904	19.635	24.306	34.472	45.664	58.426	72.760	90.763	108.434	127.677
Nominal	Inches	.068	.088	160.	.109	.113	.134	.140	.145	.154	.204	.217	.226	.237	.246	.259	.280	.301	.322	.344	.366	.375	.375
ICHES	Appreximate Internal	.270	.364	.494	.623	.824	1.048	1.380	1.611	2.067	2.468	3.067	3.548	4.026	4.508	5.045	6.065	7.023	7.982	8.937	10.019	11.000	12.000
DIAMETER IN INCHES	Actual External	.405	.540	.675	.840	1.050	1.315	1.660	1.900	2.375	2.875	3.500	4.000	4.500	5.000	5.563	6.625	7.625	8.625	9.625	10.75	11.75	12.75
DIAME	Nominal Internal		1 <i>"</i>	¥ 695		4 7 4	1″	11″	13″	2"	2 <u>4</u> ″	3″	3ł″	4″	4§″	2″	"9	<i>"L</i>	8″	<i></i> 6	10″	11″	12″

Wrought Iron and Steel Water Pipe

SUPERIOR TANKS

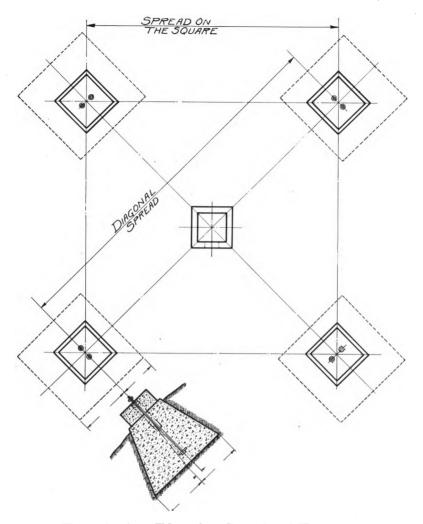
(Page Twenty-two)

Digitized by Google

TIPPETT & WOOD

Standard Expansion Joints and Base Elbows and Base Elbows Dimensions of Standard Com- panion Flanges and Height of Base Elbows of Base Elbows ALL DIMENSIONS ARE GIVEN IN INCHES		4 4 <i>k</i> 5 6 7 7 <i>k</i> 8 <i>k</i> 9 9 <i>k</i> 10 11 12 <i>k</i> 13 <i>k</i> 15 16 19 21 22 <i>k</i> 23 <i>k</i> 25 27 <i>k</i> 29 <i>k</i> 32	16 ½ ² ² ² ⁶ ⁵⁸ ¹ ¹ ³ ¹ ¹ ³ ¹	118 2rs 256 376 376 4rs 476 476 548 548 6rs 7rs 656 918 1056 1148 1476 15rs 15rs 17rs 19rs 21% 23% 26	$\frac{1}{18} \ \ \ \ \ \ \ \ \ \ \ \ \$	3 3 3 3 3 3 3 4 3 5 4 7 7 7 7 7 8 4 9 4 9 10 4 11 13 13 4 14 4 17 16 3 14 4 17 16 3 14 4 17 16 3 14 4 17 16 3 14 4 17 16 3 14 4 17 16 3 14 4 17 16 3 14 4 17 16 3 14 4 17 16 3 14 4 17 16 3 14 4 17 16 3 14 4 17 16 3 14 17 16 3 14 17 16 3 14 17 16 3 14 17 16 3 14 17 16 3 14 17 118 114 117 118 117 118 117 118 117 118	4 4 4 4 4 4 4 4 4 8 8 8 8 8 12 12 12 16 16 16 20 20 20	7 e 7 e 7 e 7 e 5 e 5 e 5 e 3	11% 11% 11% 2 21% 21% 21% 21% 3 3 3 3 3 3 3 3 3 3 3 3 5 8 5 8 5 % 5 % 5 % 5 % 5 % 5 % 5 % 5 %	1 ⁸ 1 ⁸ 5 ⁸ 3 ⁴ 3 ⁴ 3 ⁴ 3 ⁶ 3 ⁸ 1 1 1 1 ⁹ 1 ⁹ 1 ⁹ 1 ⁹ 1 ⁹ 1 ⁹	
1 1 1 1997 1997 1997 1997 1997 1997 1997	1 1%	4 41/2					4 4				
ALL ALL	%	3½	1 ⁶	1½	5 %	2½	4	3%	1½	72	
	Size Pipe	Diam. of Flange	Thickness of Flange	Diam. of Hub	Length of Thread	Diam. of Bolt Circle	Number of Bolts	Size of Bolts	Length of Bolts	Diam. of Bolt Holes	

SUPERIOR TANKS Digitized by GO (Page Twenty-three)



Foundation Plan for Standard Towers

This plan shows the general arrangement of the piers and how they are constructed. The diagonal and side spreads of STANDARD TOWERS on centre line of capstones can be determined very closely as follows, where D and H are in feet:

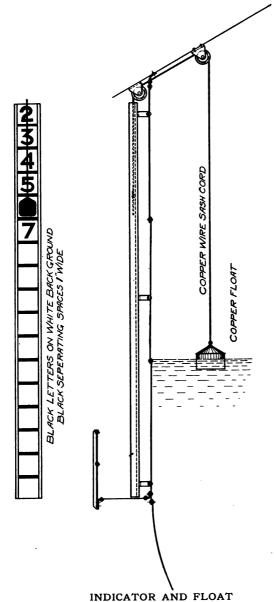
Side Spread=.707D+.147(H+
$$\frac{D}{2}$$
)+1½"
Diagonal Spread=D+.208(H+ $\frac{D}{2}$)+2"

The exact spread of each tower is given by us with every proposition and a foundation plan is furnished free of charge upon receipt of order for tower. We furnish the anchor bolts shown, with the tower. We assume no responsibility for the safety of foundations not placed by ourselves.

SUPERIOR TANKS

Digitized by Google

(Page Twenty-four)



Accessories for Stand-pipes and Water Towers

We manufacture a complete line of accessories and suggest that you specify them in your order. In ordering ladders always state where ladder is to start and end. Also state if ladder is desired inside of The size of tank. pipe should be given and whether cast iron or wrought iron.

Roofs

Inside Covers Ladders Indicators Riser Pipes Steam Coils Pipe Connections Expansion Joints Pipe Casing Pipe Stay, Rings and Rods Manholes

Digitized by GOOPage Twenty-five)

Useful Information

One cubic foot of water at 62 degrees F weighs 62.355 lbs.

One U. S. Gallon of water at 62 degrees F weighs 8.33 lbs.

One cubic foot is equivalent to 7.48 U. S. gallons.

One U. S. Gallon contains 231 cubic inches.

One Imperial Gallon is equivalent to 1.2 U. S. Gallons.

A pressure of one lb. per square inch is produced by 2.31 feet of water at 62 degrees F. To find the pressure per square inch due to a column of water, divide its height in feet by 2.31 or multiply by .433.

One foot of water at 39 degrees F is equivalent to .8826 inches of mercury at 30 degrees.

One inch of mercury at 32 degrees is equivalent to 1.133 feet of water.

Fire Stream Data for 1-Inch Smooth Nozzle

indicated Pressure	Best Fire Jet		Gailens		Tower requ mms 2 and				
Lis.	Neight Feot	Reack Feet	Minute	50 Feet	100 Foet	200 Feet	300 Feet	400 Feet	500 Feet
25 35 40 55 55 665 70 58 85 95 100	43 51 58 64 69 73 76 79 82 85 87 89 91 92 94 94 96	42 47 51 55 58 61 67 70 72 74 76 80 82 83	147 161 174 186 198 208 218 228 237 246 255 263 274 279 287 295	67 77 92 106 119 131 145 158 172 184 197 211 226 237 250 264	71 84 102 115 129 142 158 172 186 200 216 230 243 257 271 287	82 99 117 133 149 165 181 200 216 232 248 264 282 298 264 282 298 314 331	94 113 131 151 170 188 207 226 246 246 246 246 246 246 243 300 319 338 339 337	106 126 147 168 191 211 232 253 273 253 273 253 273 253 273 317 338 359 379 400 420	117 140 163 186 209 234 257 280 303 327 280 303 327 349 372 398 420 444 467

This Table also serves for 1¹/₄-Inch Ring Nozzle

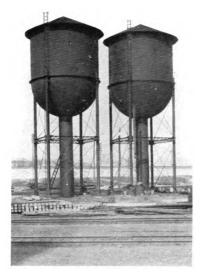
Fire Stream Data for 1¹/₈-Inch Smooth Nozzle

Indicated Pressure	sure Jet		Gailons		Tower requ umas 2 and				
Lbs. at Nezzie			Minute	50 Feet	100 Feet	200 Feet	300 Feet	400 Feet	500 Feel
25	44	44	188	72	80	100	119	137	156
25 30 35 45 55 66 50 55 67 58	44 52 59	50	206	86	96	121	· 142	165	186
35	59	54	222	100	112	140	165	190	218
40	65	50 54 59	238	116	128	161	188	218	248
45	70	63	252	130	144	180	204	246	278
50	75	66	266	144	160	201	227	274	310
55	80	69	279	158	176	222	250	302	340
60	83	72	291	172	192	241	273	327	370
65	86	72 75	303	188	208	262	296	355	402
70	88	77	314	202	224	281	322	383	432
75	90	79 81	325	216	240	302	345	411	464
80	92	81	336	230	256	323	368	436	494
85	94	83	346	246	272	342	391	464	524
90 95	%	83 85	356	260	288	363	414	492	556
95	80 83 86 88 90 92 94 96 98 99	87	366	274	304	382	439	520	586
100	99	89	376	288	320	403	462	548	608

	20%	Ca. Fr Mia Tr	288283333338888828282328232828888888888
	Ñ	훈흥훈	11111111111111111111111111111111111111
	18/	Ca. Ft. per Min.	22285858585888888888888888555555555555
Ft.		Fric Fead	1130 1130 1130 1130 1130 1130 1130 1130
100 Ft	16″	Cu. Ft. por Mia.	866535859586665554656688888888888888888888888
		Fric- tien Head	1113 1113 1113 1113 1113 1113 1113 111
s per	INCHES	Cn. Ft. por Min.	44836933338833388333886625233388258866444534533338883338883338885338866444453453333888533388664444453453333888558886644444534533338885588866444445345333388855888664444445345333888664444444444
Losses S N PIPES		Fric- tion Head	1122328883338884444338855885555555 1125368833388588839555855555555555555555555
	PE IN	Cu. Ft. per Mia.	
frictional Lo Discharges wrought iron	PIPE 12	Fric- tien Head	746648884466668888668919564 8 8
Frictional d Dischar; wrought i	2 OF	Cu. Ft. per Min.	
Di Di WR0		Fric- tion Head	\$
	MET	Ca. Ft. per Min.	448228282828282828282828282828282828282
Heads, Pipe an , cast or	DIAMETER	Fric tier Hea	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
H. D. H	AL I 6″	Cn. Ft. per Min.	22222222222222222222222222222222222222
elocity locity of H smooth.		Fric tier Hea	88.48.98%84.41111111111111111111111111111111111
	NOMINAL 4" 6"	Cu. Ft. per Min.	111.54 11.54 11.54 11.5
		Fric- tien Head	\$\$\$\$£\$577777777777777777777777777777777
Velocities,	31/1	Cu. Ft. per Min.	88 88 88 88 88 88 88 88 88 88
loci	3	E THE	7.28282828282828282828282828282828282828
< C	ů.	Cu. Ft. per Min.	6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0
		Fric- tien Head	665388833332222888228882288 66538883332222888228882288 882288828883883332228882288
	Je y	:= 2	
	تو ج	Per Sec.	111116888884444448888888888888888888888

SUPERIOR TANKS -

Digitized by GQPage Twenty-seven)

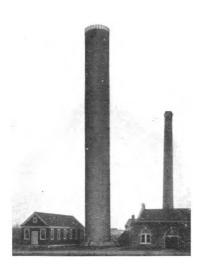


WATER TOWERS FOR P. R. R. Capacity each 50,000 Gals. Height 24 Ft. to Bottom of Tank

Erected at Baltimore, Md., in 1911



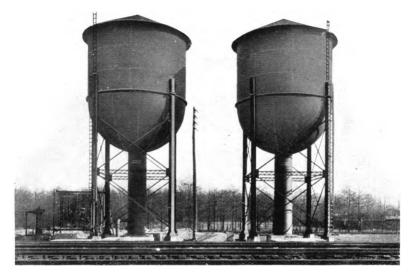
WATER TOWER FOR L. V. R. R. Capacity 100,000 Gals., Height 22 Ft. to Bottom of Tank Erected at West Manchester, N. Y., in 1911



STAND-PIPE FOR THE ELBER-ON WATER AND LIGHT CO. Diam. 18 Ft., Height 150 Ft. Capacity 285,600 Gals. Erected at Elberon, N. J., in 1906



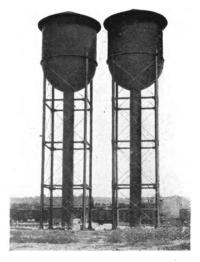
WATER TOWER FOR NEW JERSEY ZINC CO. Capacity 100,000 Gals., Height 100 Ft. to Bottom of Tank Erected at Palmerton, Pa., in 1911



WATER TOWERS FOR P. R. R. Capacity each 100,000 Gals., Height 22 Ft. to Bottom of Tank Erected at Rahway, N. J.



WATER TOWERS FOR N. Y., P. & N. R. R. Capacity each 50,000 Gals., Height 24 Ft. to Bottom of Tank Erected at Cape Charles, Va.



WATER TOWERS FOR P. R. R. Capacity 50,000 Gals., Height 51 Ft. to bottom of Tank Erected at Northumberland, Pa., in

1911

SUPERIOR TANKS

Digitized by GO (Page Twenty-nine)



WATER TOWER FOR L. V. R. R. Capacity 100,000 Gals., Height 16 Ft. to Bottom of Tank Erected at East Manchester, N. Y., in 1911



WATER TOWER FOR ARMSTRONG CORK CO. Capacity 60,000 Gals., Height 110 Ft. to Bottom of Tank Erected at Camden, N. J. in 1912

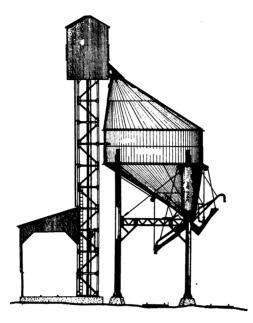


WATER TOWER FOR P. R. R. Capacity 35,000 Gals., Height 22 Ft. to Bottom of Tank Erected at Auburn, Pa., in 1911



WATER TOWER FOR BOROUGH OF LODI Capacity 50,000 Gals., Height 46 Ft. to Bottom of Tank Erected at Lodi, N. J., in 1910

Digitized by Google



Standard Steel Coaling Stations

These stations are usually built with a capacity of from 150 to 600 tons for an individual installation. They are far superior to and rapidly replacing the old wooden types. They are recommended for their permanency and economy in maintenance.

We will build and furnish estimate for steel coaling stations in exact accordance with your plans and specifications. We would prefer, however, that you give us your requirements and we will furnish a design and specification which will be the most economical arrangement and in accordance with our standard practice in design and details. The use of standard details in tower construction for which we have shop templets and forming blocks, will result in the lowest cost of fabrication. This means a saving to you as we can consequently give a corresponding lower price.

Inform us of the desired capacity of bin, the number of tracks to be served and their distance apart and we will be pleased to furnish design and estimate to deliver and erect this material at any place designated by you. If sand bin is required, please state desired capacity. These stations are an economical necessity to distributors of coal for domestic requirements as well as to the railroads.

SUPERIOR TANKS Diailized by (1) (Page Thirty-one)



WATER TOWER FOR L. V. R. R. Capacity 70,000 Gals., Height 19 Ft. to Bottom of Tank Erected at Hinkles, Pa., in 1911



WATER TOWER FOR E. H. FITLER & CO. Capacity 50,000 Gals., Height 100 Ft. to Bottom of Tank Erected at Philadelphia, Pa., in 1914

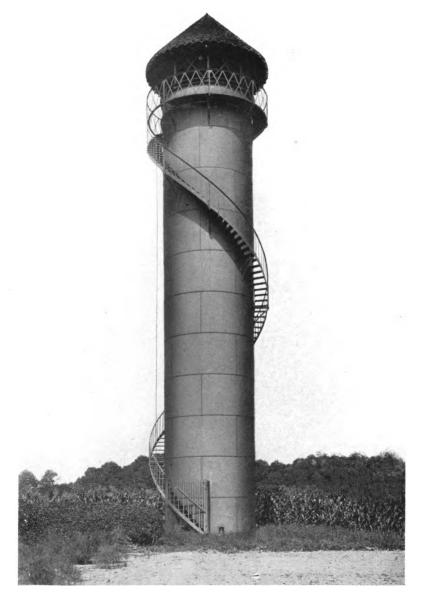


WATER TOWER FOR LOWELL FERTILIZER CO. Capacity 75,000 Gals., Height 75 Ft. to Bottom of Tank Erected at Lowell, Mass., in 1909

Digitized by Google

SUPERIOR TANKS

(Page Thirty-two)



STAND-PIPE FOR CROSBY S. NOYES Diam. 12 Ft., Height 60 Ft., Capacity 50,000 Gals. Erected at Silver Spring, Md., in 1898

SUPERIOR TANKS

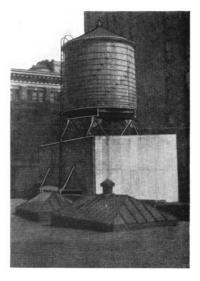
Digitized by GO (Page Thirty-three)

ΤΙΡΡΕΤΤ & WOOD



10,000 GAL. GRAVITY TANK AND 7500 GAL. PRESSURE TANK Erected for Earnest Gabler and Bros., in New York, N. Y.





PRESSURE TANKS AND STEEL FRAME

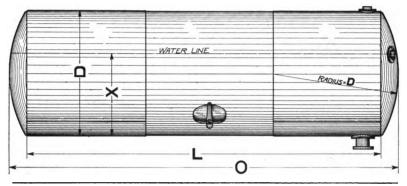
COMPLETED STRUCTURE

25,000 Gal. Gravity Tank and 2-9000 Gal. Pressure Tanks Erected for Caroline H. Johnson, at New York, N. Y.

> SUPERIOR TANKS Digitized by Google

(Page Thirty-four)

Pressure Tanks For Sprinkler Systems



Capacity	Diameter	Length Shell	Length Over All	Water Level
	D	L	0	х
3,500	6'-0"	17'-0"	18'-7"	3'-9½"
4.000	6'-0"	19'-0"	20'-7"	3'-91/2"
4,500	6'-0"	21'-6"	23'-1"	3'-91/2"
5.000	6'-0"	24'-0"	25'-7"	3'-91/20
5,000	7'-0"	17'-4"	19'-2"	4'-5 1/4 "
5,000	7'-6"	15'-0"	ĨĨ'-Ō"	4'-9"
5,000	8'-0"	13'-0"	15'-2"	5'-0 ½"
6.000	6'-0"	28'-6"	30'-1"	3'-91/2"
6,000	7'-0"	21'-0"	22'-10"	4'-51/4"
6,000	7'-6"	18'-2"	20'-2"	4'-9"
6,000	8'-0"	16'- 0 "	18'-2"	5'-01/2"
6,500	7'-0"	23'-0"	24'-10"	4'-51/4"
7,000	7'-0"	24'-6"	26'-4"	4'-51/4"
7,500	7'-0"	26'-Ŏ"	27'-10"	4'-51/4"
7,500	7'-6"	22'-8"	24'-8"	4'-9"
7,500		20'-0"	22'-2"	5'-0 ½"
7,500	8'-6"	17'-8"	20'-0"	5'-4 1/2"
7,500	9'-0"	15'-9"	18'-4"	5'-81/4"
8.000	7'-0"	28'-0"	29'-10"	4'-514"
8,500	7'-6"	26'-0"	28'-0"	4'-9"
9.000	7'-6"	27'-0"	29'-0"	4'-9"
9,000	8'-0"	24'-0"	26'-2"	5'-01/2"
9,000	8'-6"	21'-2"	23'-6"	5'-4 1/2 "
9,000	9'-0"	18'-10"	. 21'-5"	5'-8 1/4 "

These tanks are built in accordance with the requirements of the FIRE INSURANCE ASSOCIATIONS and the ordinances of any state and city. The capacity given is the volume contained in the cylindrical portion of tank not including the dished heads. Tanks for New York are designed for working pressure of 75 to 85 lbs. per square inch and are tested at our plant to 150 lbs. hydrostatic pressure for at least two hours.

In your inquiry please state capacity of tank desired, the city in which it is to be erected, and all information available pertaining to the limitations of space to be occupied and location of walls and columns which might be used for supports.

SUPERIOR TANKS

Digitized by GOOPage Thirty-five)



WATER TOWER FOR L. V. R. R. Capacity 100,000 Gals., Height 26 Ft. to Bottom of Tank Erected at Tunkhannock, Pa., in 1910



STAND-PIPE FOR STONINGTON WATER CO. Diam. 35 Ft., Height 50 Ft. Capacity 360,000 Gals. Erected at Stonington, Me., in 1909



STAND-PIPE FOR TOWN OF NORTH HAVEN Diam. 25 Ft., Height 67 Ft. Capacity 246,000 Gals. Erected at North Haven, Me., in 1911

.



WATER TOWER FOR U. S. ARSENAL Capacity 75,000 Gals., Height 120 Ft. to Bottom of Tank Erected at Frankford, Pa., in 1905



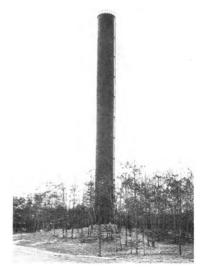
WATER TOWER FOR P. R. R. Capacity 35,000 Gals., Height 22 Ft. to Tank Bottom Erected at Penns Grove, N. J., in 1910



WATER TOWER FOR THE HAEMMERSCHLAG MFG. CO. Capacity 100,000 Gals., Height 100 Ft. to Tank Bottom Erected at Garfield, N. J., in 1911



WATER TOWER FOR WATER WORKS AT PLEASANT PLAINS, STATEN ISLAND, N. Y. Capacity 40,000 Gals., Height 75 Ft. to Bottom of Tank Erected in 1900



STAND-PIPE FOR SEA VIEW GOLF CLUB Diam. 10 Ft., Height 120 Ft. Capacity 176,250 Gals. Erected at Pleasantville, N.J., in 1914

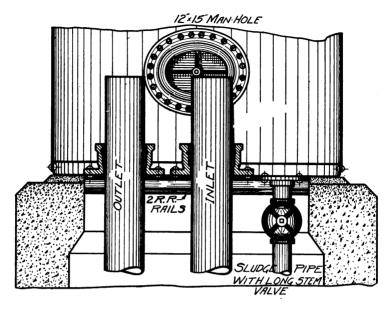
Digitized by GO(Page Thirty-seven)



WATER TOWER FOR P. R. R. Capacity 35,000 Gals., Height 22 Ft. to Bottom of Tank Brected at Elmer, N. J., in 1911

SUPERIOR TANKS — ______ Digitized by Google





Riveted Steel Downlegs

Riveted steel pipes of large diameter are being used extensively on water towers today in preference to cast iron or wrought pipe with wood casing for frost protection. On the larger diameters of cast and wrought pipe the cost including the wood casing is greater than that of the riveted pipe. Riveted pipes or downlegs, as they are called, are made from 4 to 6 feet in diameter, depending on the size storage tank, and number and size connecting pipes at the bottom of downleg. They need no casing because they will not freeze up on account of the large They are made of heavy plate and shipped in secdiameter. When the number and size of connecting pipes are stated tions. in the inquiry, our quotation will include the required fittings on the downleg. It is a permanent installation, avoiding the usual expense for frequent repair on riser pipes and casings and is better suited and more pleasing in appearance on an all steel water tower.

The downleg also acts as a settling basin for any solid matter which enters with the water. This sediment can be easily blown out from time to time through a valve conveniently located underneath. A manhole is provided which will permit easy access to the interior of downleg for inspection of pipes attached to same.

SUPERIOR TANKS

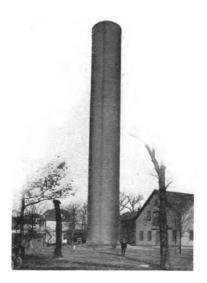
Digitized by GOORage Thirty-nine)



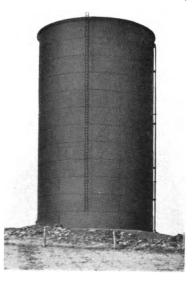
WATER TOWER FOR L. V. R. R. Capacity 100,000 Gals., Height 23 Ft. 6 inches to Bottom of Tank Erected at Reider, N. J., in 1911



WATER TOWER FOR P. R. R. Capacity 50,000 Gals., Height 24 Ft. to Bottom of Tank Erected at Northumberland, Pa., in 1911

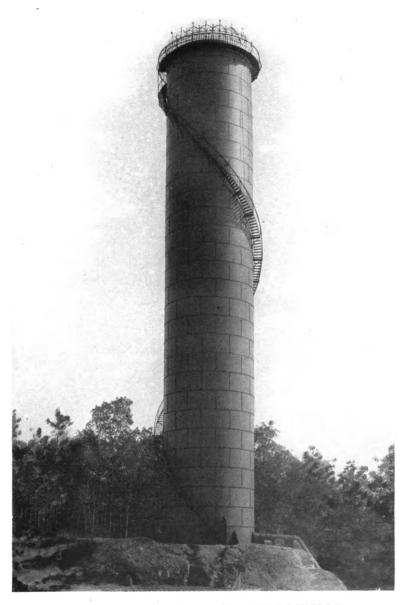


STAND-PIPE FOR QUEENS CO. WATER CO. Diam. 20 Ft., Height 140 Ft. Capacity 330,000 Gals. Erected at Far Rockaway, L. I., in 1909



STAND-PIPE FOR TOWN OF SO. HADLEY Diam. 35 Ft., Height 60 Ft. Capacity 431,000 Gals. Erected at Hadley, Mass., in 1911

Digitized by Google



STAND-PIPE FOR TOWN OF NEW ROCHELLE Diam. 25 Ft., Height 140 Ft., Capacity 514,080 Gals. Erected at New Rochelle, N. Y., in 1892

SUPERIOR TANKS

Digitized by GOO (Page Forty-one)



12,000 GAL. GRAVITY TANK AND 9,000 GALLON PRESSURE TANK Erected for Estate of Andrew Alexander, in New York, N. Y.



20,000 GAL. GRAVITY TANK AND TWO 7,500 GALLON PRESSURE TANKS Erected for Abraham and Strauss in Brooklyn, N. Y.



WATER TOWER FOR NASSAU COUNTRY CLUB Capacity 45,000 Gals., Height 60 Ft. to Bottom of Tank Erected at Glen Cove, L. I., in 1911

Digitized by Google



Fire Protection

IN ORDER to reduce the fire insurance rate, and reduce the risk of the prolonged inconvenience and accumulating expenses resulting from a fire, it has repeatedly been found to be a very profitable investment to install an ever-ready water supply system to protect country estates and city property. There is no method of water protection more reliable than the storage of a sufficient quantity of water closely to the place to be protected and at an elevation which will produce enough pressure to reach the most remote part of the property

effectively. The installation of one of our steel water towers will permit a large quantity of water to be ready for action at all times. The cost of this invaluable service is a very small charge for depreciation and maintenance. The life of an all steel tower is that of the modern steel frame building. The cost of maintenance for such a tower amounts to practically the cost of a coat of paint every few years.

In cities where the conditions limit the use of water towers of sufficient size, pressure tanks are used in which the water is confined under a pressure necessary to effectively operate the sprinklers protecting any part of the property. The standard sizes of these tanks are given on page 35. Pressure tanks are generally installed on the tops of buildings and are enclosed by a housing, also furnished by us.

Many of the gravity tanks we furnish with the pressure tanks are made of wood as shown in accompanying photographs. Where wood tanks are supplied at the request of our customers, only the best grade of lumber is selected and only the best workmanship permitted. These tanks are placed directly on all steel platforms to avoid the rotting of any wood placed between the tank and the steel supports. The structure under the tank is built in accordance with the regulations of the local building department.

SUPERIOR TANKS

Digitized by GOO Page Forty-three)



40,000 GAL. GRAVITY TANK & 4-7,500 PRESSURE TANKS Erected for Varick Realty Co., at New York, N. Y.



WATER TOWER FOR H. D. PARMELEE MFG. CO. Capacity 20,000 Gals., Height 75 Ft. to Bottom of Tank Erected at Newark, N. J., in 1914



10,000 GAL. GRAVITY TANK 3500 GAL. STAND-PIPE TANK AND 7,500 GAL. PRESSURE TANK Erected for the Folsom Estate Agency in New York, N. Y.

_



WATER TOWER FOR THE SAUER MOTOR CO. Capacity 50,000 Gals., Height 75 Ft. to Bottom of Tank Erected at Plainfield, N. J., in 1913

Digitized by Google



40,000 GAL. GRAVITY TANK FOR JULIUS KAYSER & CO. Erected at Brooklyn, N. Y.



TWO 50,000 GAL. TANKS FOR THE NATIONAL STORAGE CO. Erected at Communipaw, N. J.



GAS HOLDER FOR TOWN OF PHILLIPSBURG Erected at Phillipsburg, N. J.



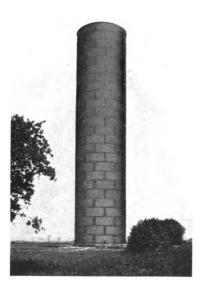
STAND-PIPE FOR SPRINGFIELD WATER CO. Diam. 40 Ft., Height 50 Ft. Capacity 470,000 Gals. Erected at Bryn Mawr, Pa., in 1894



WATER TOWER FOR ANDREW McLEAN Capacity 20,000 Gals., Height 16 Ft. to Bottom of Tank Erected at Garfield, N. J., in 1914



WATER TOWER FOR BORDEN CONDENSED MILK CO. Capacity 40,000 Gals., Height 30 Ft. to Tank Bottom Built 1908



STAND-PIPE FOR GARDEN CITY ESTATE Diam. 30 Ft., Height 125 Ft., Capacity 661,000 Gals. Erected at Garden City, L. I., in 1907



WATER TOWER FOR TOWN OF DENTON

Capacity 65,000 Gals., Height 75 Ft. to Bottom of Tank Erected at Denton, Md., in 1911

- SUPERIOR TANKS

(Page Forty-six)

Special Towers



COME of the tanks and towers shown by Jour cuts were built in exact accordance with the detail plans and specifications of our customers. They are not recomended for their economy in design as known today, but are shown for the express purpose of informing the public of our ability to build any type of structure to meet the requirements of the supervising engineer, architect or owner. A few photographs are shown to give ideas on the methods of beautifying a tank or tower to harmonize with its surroundings. To show what can be done in this class of architecture, we give a picture of a tower in Japan. The water tank supported by this struct-

ure is entirely hidden from view. One cannot help but note that this is an oriental design and that the designer succeeded in harmonizing its outline with the architecture of the country. Its practical purpose is the same as that of the many towers one sees throughout the country.

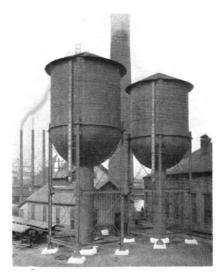
A tank or tower can be ornamented so that it will become a pleasing and attractive addition to any country estate or club. The owner very often would be willing to spend a considerable sum to beautify the tank or tower he bought. A moderate extra cost, if allowed us by the purchaser at the time the order is placed, would accomplish big results. A design would be submitted showing just what we could do for the consideration. We have made such additions to several of our standard designs in the past.

We build towers with elliptical, segmental or conical bottoms but recommend them only for special requirements. The greatest economy in the fabrication of these bottoms, considering that we have the forms for all types, lies with the hemispherical type. Furthermore, the fabrication of this type in large quantities also reduces the cost below what it would be to fabricate a few of each at the same time. We can therefore offer more in material and workmanship on a tower at the prevailing price. When a definite quantity of water is desired above a certain level on a large ball bottom tank, we find the greatest economy of design lies in placing the extreme bottom of the ball a few feet below this line and adding the weight of the water below the line into the tower loads.

SUPERIOR TANKS

Digitized by GO Page Forty-seven

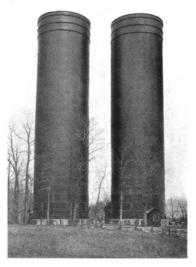
ΤΙΡΡΕΤΤ & WOOD



WATER TOWERS FOR L. V. R. R. Capacity of each 40,000 Gals., Height 24 Ft. to Bottom of Tank Erected at Lehighton, Pa. in 1913



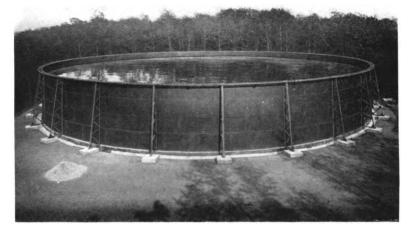
AN ORNAMENTAL WATER TOWER IN JAPAN



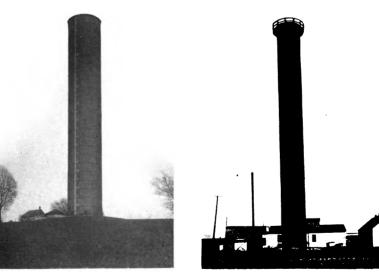
STAND-PIPES FOR THE SPRINGFIELD CONSOLIDATED WATER CO. Diam. [35 Ft., H e]i gh ti 130 Ft., "Capacity 935,000 Gals. Each Erected at Hillside, Pa. in 1899

SUPERIOR TANKS

(Page Forty-eight)



TANK FOR ROCHESTER AND LAKE ONT. WATER CO. Diam. 150 Ft., Height 20 Ft., Capacity 2,644,000 Gals. Erected at Rochester, N. Y. in 1904



STAND-PIPE FOR THEJTOWN OF ORANGE Diam. 20 Ft., Height 120 Ft., Capacity 282,000 Gals. Erected at Orange, Va. in 1910

t

Ł

STAND-PIPE FOR DELMAR WATER CO. Diam. 12 Ft., Height 115 Ft., Capacity 97,000 Gals. Erected at Delmar, Del. in 1912

SUPERIOR TANKS

Digitized by Go (Page Forty-nine)

From a Customer

Just as this book was going to press we received the letter, copy of which is given below. A fair idea of the work in question may be had from the photograph on page 8. We are drawing this to your attention because the work has only been completed recently and the letter is typical of the commendations we quite frequently receive. It has been our own experience that to deal with a long-established, highly recommended concern is an item in your contract which may prove to be a very appreciable asset before the work is completed.

CONNECTICUT AGRICULTURAL COLLEGE

Storrs, Conn., May 21, 1915

Messrs. Tippett & Wood, Phillipsburg, N. J.

Gentlemen:

As you are about to issue a new catalog I would like to say to you and to anyone else interested in your products that our experience with the firm of Tippett & Wood has been entirely satisfactory. We purchased from you a standpipe, 25x80 feet, with cover, pagoda roof, and spiral stairway and your firm fabricated and erected it. You have good facilities for doing this work and competent mechanics and you have done an honest piece of work, exactly according to specifications and I am glad to commend your ability and integrity, and especially the fair spirit in which you have adjusted the few points not covered by the specifications. Before placing our order with you, I visited your plant and several others, and saw some of the structures built by you elsewhere and these visits gave me a favorable impression of your firm. This impression has been strengthened by our experience with you and though you have not suggested it, I feel that it is only fair to say that I have been pleased.

> Very truly yours, CHARLES A. WHEELER, Engineer.

> > Digitized by Google

SUPERIOR TANKS

(Page Fifty)

Stand-Pipe and Water Towers

BUILT BY

We have built the following structures and will furnish particulars concerning any of them upon request. Dimensions are in feet. The height of water towers is given to the extreme bottom.

_

LOCATION		STAN	D-PIPE	WATER TOWER	
LUCA		DIAM.	NEIGNT	CAPACITY	NEIGNT
ALABAMA	Montgomery Selma Opelika Decatur Greenville Troy	15 18 20	10512070120100	100,000	100
ARKANSAS	Little Rock	20	185		
CONNECTICUT	Naraton Heights Graton Springdale, Danbury Niantic Guilford Willimantic	30 21 15 12 32 14	65 80 40 60 85 17	45,000 50,000	75 75
	Willimantic	••••		25,000	50
DELAWARE	Yorklyn Bridgeville Frederica Middletown Delmar	10 	100 100	50,000 30,000	100 75
	Dover New Castle	12 	115 	$50,000 \\ 25,000$	22 75
DISTRICT OF CO	LUMBIA				
	Silver Springs Washington	9 	80 	75,000	40
FLORIDA	Pensacola Tallahassee Miami	20 20 20	$^{135}_{100}_{120}$		
GEORGIA	Waycross Athens Milledgeville Tallaposa Gainesville La Grange Griffin	20 20 15 16 15 15	$ \begin{array}{r} 120 \\ \\ 65 \\ 100 \\ 80 \\ 90 \\ 1$	150,000	60
	Dawson Savannah	•••••	•••••	50,000 15,000	100 75
ILLINOIS	Sterling Lake Forest	$\begin{array}{c} 20\\ 16 \end{array}$	100 80		
INDIANA	Vincennes Shelbyville Mt. Vernon Wabash Green Castle	$22 \\ 5 \\ 16 \\ 25 \\ 22$	$200 \\ 125 \\ 30 \\ 100 \\ 140$		

SUPERIOR TANKS

Digitized by GO (Page Fifty-one)

		STAN	D-PIPE	WATER TOWER	
		DIAM.	HEIGHT	CAPACITY	HEIGH
IOWA	Algona Cherokee	12.6 18	100 80		
KANSAS	Fort Scott Minneapolis	$\begin{array}{c} 14\\20\end{array}$	80 85		
KENTUCKY	Paducah Louisville Hopkinsville	22 5 60	$175 \\ 135 \\ 100$		
LOUISIANA	Jackson Shreveport	$\begin{smallmatrix}12\\20\end{smallmatrix}$	100 110		
MAINE	Farmington Winter Harbor Sag Harbor Stonington North Haven	40 8 20 35 25	25 70 100 50 67		
MARYLAND	Cambridge Salisbury Centreville Aberdeen Baltimore Baltimore Baltimore Denton Denton Stony Run Rising Sun	$ \begin{array}{r} 14 \\ 12 \\ 10 \\ 12 \\ 20 \\ \hline 23.6 \\ \hline 10 \\ 10 \\ \end{array} $	$ \begin{array}{c} 100\\ 100\\ 100\\ 100\\ 100\\ 100\\ 125\\ 20\\ \dots\\ 100\\ 100\\ \end{array} $	75,000 (2) 50,000 35,000 50,000	40 22 22 22
MASSACHUSETTS	Marlboro Marion Medfield Sagmore Sagmore South Hadley South Hadley Bedford Siasconset	20 25 25 35 25 35 20 10	$ \begin{array}{c} 100\\ 65\\ 60\\ 100\\ 60\\ 100\\ 40\\ \end{array} $	300,000 30,000 50,000	75 75 25
	Lowell Acton Norwood Salisbury	35 60 25	70 55 85	75,000	75
MICHIGAN	Mt. Pleasant	•••••	• • • • • •	40,000	30
MISSOURI	Rockport Tarkio Carrolton Hannibal	$\begin{array}{c} 15\\10\\12\\\ldots\end{array}$	30 50 100	100,000	100
MONTANA	Kalispell	25	50		
NEBRASKA	Wayne	12	75		
NEW HAMPSHIRE	Tilton Hampton	25		20,000	35
NEW JERSEY	Rahway Newfield Sea Isle City Cape May Meadows Riverside South Amboy	20 25	24 	35,000 35,000 35,000 50,000 10,000	22 22 22 22 22 100

SUPERIOR TANKS -

-

С

LOCATION)-PIPE	WATER TOWER	
	DIAM.	NEIGNT	CAPACITY	NEIGNI
NEW JERSEY - (Continued)				
Absecon	10	120		
Chrome Gloucester	50	80	10,000	80
Princeton	· · · · · · ·		537,000	67
Phillipsburg Perth Amboy Lawrenceville			30,000	48
Perth Amboy	$20 \\ 20$	25 60		
New Brunswick			100,000	60
Dover			10.000	50 80
Gloucester Perth Amboy	20	25	10,000	00
Crosswicks	Ĩğ	9 0		
Trenton	· · · · · · · · · · · · · · · · · · ·	60	40,000	75
Port Morris Huntsville	16	45		
Garfield			100,000	100
Sewell Garfield	10	100	10,000	36
Garfield	30	40		
Garfield Carlton Hill Midland Park	22	28		
Lodi	40	30	50,000	50
Blairstown	15	85		
Avalon Elmer	20 12	$125 \\ 110$		
Camden			60,000	110
Bridgeport South River			50,000	100
Trenton	20	100	50,000	50
Pleasantville			10,000	50
Hightstown	• • • • • •		50,000 8,000	22 40
Hainesport Keansburg	15	100	3,000	1 10
Keansburg Rahway			(2)100,000	
Elberon	18	150	50,000	100
Garfield Lawrenceville	6	50	50,000	100
Lawrenceville Highlands	30	30 80		
Kinkora	14 10	100		
Lumberton Jersey City Lakewood			50,000	80
Lakewood	12	50	35,000	22
Phillipsburg Meadows	· · · · · · ·		(2) 75,000	
Wildwood	30	110		
Allentown Phillipsburg	12	80	40,000	21
Midland Park	40	30		
Pennsgrove	• • • • • •		35,000	22
Port Reading Elmer	· · · · · · ·		(4) 20,000 35,000	15
Haddon Heights.	12	100		
Overbrook Hammonton	60	30	35,000	22
Pitman	10	80	35,000	
Cape May Point	$10 \\ 12$	100 70		
Camden Wildwood			50,000	75
Morristown	15	40	00,000	1
Medford Metuchen	$12 \\ 60$	$ 100 \\ 35$		1
Helmetta	10	135		
Spottswood	• • • • • •	• • • • •	5,000	100
National Stores Wilburtha	••••		100,000 15,000	85 45
Passaic			20,000	26.
Madison		120	16,000	40
May's Landing	12			

LOCATION		STAN	D-PIPE	WATER TOWER	
		DIAM.	HEIGHT	CAPACITY	NEIGN
NEW JERSEY-	- (Continued)				
	Milltown			75,000	100
	New Orange Park	20	60	.0,000	1 100
	Pitman Convent Station	50	70		
	Trenton	$\frac{18}{25}$	100 80		
	Plainfield			10,000	30
	Island Heights			50,000 100,000	80
	Moorestown Rahway	30	50	100,000	44
	Jersey City Jersey City	13.6	29(2)		
	Jersey City	25	30(2)		
	Ridgewood Egg Harbor	50 10	30		
	Metuchen	50	$\begin{array}{c}100\\30\end{array}$		
	Riverton	30	70		
	Chatham Westville	15	70		
	Marlton	10	60	100,000	100
	Tom's River			50,000	75
	Tuckertown Bound Brook			50,000	75
	Short Hills	20	50		
	Washington			10,000	60
	Sea Isle City	10	100	,	
	Vincentown Glassboro	12	100	150.000	150
	Morristown	25	80	150,000	150
	Bernardsville	8	22		
	Jersey City	20	49		
	Bogota Ventnor	25 18.6	37 100		
	Trenton		100	100,000	72
	Raritan	25	140	100.000	1
	Clayton	····		100,000	100
	Ridgewood		120 40		
	Atlantic City Atlantic City	80	10		
	Raritan	15	140		
	Princeton	10	140	150,000	60
	Lawrenceville	10	85	100,000	
	Stockton	14	100		
	Flemington Junc Woodstown	12 12	60 100		
	Englewood	20	70		
	Keyport	20	125		
	Atlantic High'nds.	$\left\{ \begin{array}{c} \bar{3} \\ 15 \\ 15 \end{array} \right\}$	$\left\{ \begin{array}{c} 35\\20 \end{array} \right\}$		
	Holliswood	15	30		
	Freehold	20	100		
	Plainfield Summit	25	140		
	Montclair	25 40	50 30		
	Ridgewood	21	105		
	Plainfield Columbus	75	25		
	Port Oram	60 14	10 100		
	Dolphin Station		100	40,000	50
EW VODV		. 1			
IEW YORK	Far Rockaway Rockaway Beach.	20 18	$\begin{array}{c c}140\\130\end{array}$		
	Glen Cove			45,000	60
	Hastings-on-H'son	18	70	10,000	30
	Eastwood Peekskill	40	80		
	Rockaway Beach.	30 10	$\begin{array}{c} 75\\ 120 \end{array}$		
	Greenport	20	100		
	Wateroliet	30 J	50		
			1	30,000	75

SUPERIOR TANKS -

(Page Fifty-four)

LOCATION	STAN	D-PIPE	WATER TOWER	
	DIAM.	HEIGHT	CAPACITY	NEIGN
NEW YORK—(Continued)				1
Loon Lake			30,000	40
Utica	5	40		10
Albany			$\begin{array}{r} 40,000 \\ 50,000 \end{array}$	100
East Liberty Blasdell		••••	50,000 50,000	22
Loon Lake	12	12	20,000	22
Norwich	24	21.9		
Remsen Neck	15	30		
Yorktown Heights	20	$\cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot$	50,000	71
Madrid Holland Patent		80 80		
Hallis	50	30		
Richmond Hill	1 40	57		
Jamaica New York City	31.3	80	10.000	
		100	40,000	25
Port Jefferson	20	50		
Niagara Falls			10,000	100
Port Washington. New York City	40	50		1
New York City Haines Falls	55	· · · · · · · ·	60,000	50
Haines Falls Hastings-on-H'son Haines Falls Howe's Cove	18	20 70		
Haines Falls	55	1 20 1		
Howe's Cove	22	12.6		
Gien Fails	1 40	35		
Hudson Hudson		•••••	50,000 25.000	50
Pine Camp		•••••	60,000	50
Reeder	1		100,000	23
Long Island City. Manchester			60,000	51
Manchester			100.000	22
Manchester Oakdale			100,000 25,000	
Williamsville	1 12	100	25,000	50
Poughkeepsie	15	50		
		75 75		
Perry Monticello Glens Falls	16			
Glens Falls	25 18	60 120		
	1 20	100		
Hyde Park	15	50		
Tarrytown			20,000	50
White Plains Cold Spring		• • • • •	30,000 40,000	28
Olean			100.000	40
Jamesville	20	60		
Cold Spring Grand Hotel			10,000	20
Pleasant Plains	25	27.6	40,000	75
Bochester	150	20	40,000	10
Roslyn Tupper Lake Brooklyn	20	60		
Tupper Lake	50	60 50		
Brooklyn	(2)14	80	50,000	1 10
Roslyn Port Chester		· · · · ·	30,000	40
Garden City	30	125		0.0
Far Bockaway	20	100		1
Staten Island	35	25		
		125		
Sea Cliffe Hyde Park New Rochelle Walden	20	120 16		1
New Rochelle	25	140		1
Walden	16	50		1
Uakdale	0	60		1
Amityville Palmyra	20	125 50		1
raimyra	18	40		1
Skaneateles				
Skaneateles Hyde Park	25	1ž		1

SUPERIOR TANKS

.

IDPAT	LOCATION		D-PIPE	WATER TOWER	
	UN	DIAM.	NEIGHT	CAPACITY	HEIGHT
NEW YORK-(Con	ntinued)				
	Ardsley Hyde Park New Rochelle Oakdale Rome Buffalo Rockville Centre Antwerp Seneca Falls	30 20 8 15 20 20 20 25	$ \begin{array}{r} 30 \\ 50 \\ 50 \\ 60 \\ 72 \\ 60 \\ 100 \\ 50 \\ 80 \\ \end{array} $		
NORTH CAROLIN					
	Charlotte Henderson Greenville Goldsboro Hamlet Tarboro	$22 \\ 15 \\ 15 \\ 18 \\ \cdots \\ $	85 130 110 110 	150,000 100,000	75 100
SOUTH CAROLIN	A				
	Sumpter Anderson Orangeburg Walterboro	20 18 8	$ \begin{array}{r} 70 \\ 110 \\ 60 \\ \dots \end{array} $	30,000	75
NORTH DAKOTA	Watertown	20	90		
OHIO	Belleville Massillon Defiance Marion Ashtabula Salem Circleville Kent Montpelier Columbus Warren	15 20 20 25 20 25 22 14 21 22	$120 \\ 150 \\ 140 \\ 90 \\ 100 \\ 85 \\ 150 \\ 100 \\ 110 \\ 42 \\ 140$		
OREGON	East Portland	25	100		
PENNSYLVANIA	Easton	· · · · · ·	 10 50 90 15 78 35 39	$\begin{array}{c} 35,000\\ 50,000\\ 35,000\\ 75,000\\ 75,000\\ 50,000\\ 75,000\\ 25,000\\ 25,000\\ 30,000\\ 50,000\\ 50,000\\ 25,000\\ 25,000\\ 100,000\\ 30,000\\ 100,000\\ 30,000\\ 100,000\\ \end{array}$	$\begin{array}{c} 22\\ 22\\ 22\\ 22\\ 22\\ 22\\ 24\\ 75\\ 75\\ 75\\ 75\\ 75\\ 75\\ 6\\ 6\\ 72\\ 10\\ 12\\ 604\\ 12\\ 25\\ 60\end{array}$

SUPERIOR TANKS

-

۱

LOCATION	STAN	D-PIPE	WATER TOWER	
LUCATION	DIAM.	HEIGHT	CAPACITY	HEIGH
PENNSYLVANIA —(Continued)				
Akron	12	100		
Akron Willow Grove	20	35	10.000	
Frankford, Phila			40,000	75
D'ware Water Gar Chestnut Hill, Phil	20	20 80		
Dh a su institut	10000	1.	50,000	24
Bangor	50	25		
Birdsboro			50,000	100
Sunbury			35,000	22 35
Easton			$3,000 \\ 35,000$	22
Devault			35,000	22
Bangor Bangor Sunbury Easton Devault Ridgeway Colza Marysville Glen Rock Shamrock Bond Graceton Lovell Garland Irvineton Kittaning Point Ben's Branch. Northampton Chestnut Hill, Phi Palmerton			35,000	22
Marysville			50,000	22
Glen Rock			$50,000 \\ 50,000$	22 22
Snamrock			50,000	2.2
Graceton			35,000	22
Lovell			$35,000 \\ 35,000$	22 22 22
Garland			35,000	22
Irvineton	20		55,000	22
Williamsport	40	40		
Kittaning Point	35	30		
Ben's Branch	(2)30	20		
Northampton			100,000	100
Chestnut Hill, Phi			$25,000 \\ 100,000$	100
Palmerton Plymouth			30,000	38
Philadelphia			$ \begin{array}{r} 30,000 \\ 35,000 \\ 95,000 \end{array} $	22
Philadelphia			95,000	55 24
Plymouth Philadelphia Philadelphia Northumberland Philadelphia Auburn Hinkle Laceyville Glendon			(2) 50,000 (2) 50,000	51
Northumberland Philadelphia			50,000	24
Auburn			35,000	22
Hinkle			70,000	20 20
Laceyville			$100,000 \\ 100,000$	20
Tunkhannock			40,000	12
Glendon Swarthmore Wilkes-Barre Portland Hillside Janey Station Bryn Mawr Ardmore			100,000	100
Wilkes-Barre		45	40,000	85
Portland	16	$ \begin{array}{c} 45 \\ 130 \end{array} $		
Hillside	(2)35	15		
Bryn Mawr	40	50		
		50		
Oak Lane	1 30	75		
Sweedland Furn'e	$\frac{12}{6}$	70 50	-	
Sweedland Furne Easton Frankford, Phila. Allentown Media Pottsville West Grove South Allentown	7	76		
Frankford, Phila.	12	100		
Allentown	50	150		
Media	30	50 30		
West Grove	20	30		
		50	Sec. 1	
Bethlehem			50,000	75
East Greenville Allentown	. 15	$ \begin{array}{c} 100 \\ 100 \end{array} $		
Bryn Mawr	50	50		
Easton	25	120		
Easton Freemansburg Pittsburgh			40,000	59
Pittsburgh			$ \begin{array}{r} 75,000 \\ 20,000 \end{array} $	25
Sharpsville			20,000	22
Northampton Enolia	25	40	40,000	38
Frankford, Phila. Telford			75,000	110
Telford	1.0	40	10,000	1

LOCAT		STAN	D-PIPE	WATER TO	WER
		DIÂM.	HEIGHT	CAPACITY	HEIGHT
PORTO RICO	San Juan			50,000	50
TENNESSEE	Vicksburg Lookout Mount'n.	12 20	140 70		
TEXAS	Halletsville Terrell	$24 \\ 12$	100 85		
VIRGINIA	Berkeley Smithfield Hampton Orange New Church Cape Charles Covington		100 125 120 30	50,000 50,000 (2) 50,000 (3 Tanks)	75 22 40
WEST VIRGINIA	Charlestown	15	50		
WISCONSIN	Hurley Racine Ironwood Jeansville Stevens Point Marinette	25 30 25 20 40	90 50 85 120 25		
WASHINGTON	Tacoma	20	140		
CUBA				40,000	48
NEW MEXICO	Clayton			75,000	45
FOREIGN	Curaco, D. Guinea (S. America) Export Export Export Export, Fox Bros. Export, Fox Bros.	20 30	40 20	$ \begin{array}{r} 10,000 \\ 8,000 \\ 30,000 \\ 50,000 \\ \end{array} $	50 30 51.6 19

Equipments for Fire Protection

These have been erected in the vicinity of New York City within a period of two years. We offer them as references and recommend their inspection to show our ability to cope with very peculiar and difficult problems in placing tanks over the roofs of buildings. All our equipments are accepted and approved by Insurance Companies, Fire Underwriters' Exchanges, and the local building departments.

EQUIPMENT.	LOCATION.	OWNER.
50,000 Wooden Tank 75 ft. Tower	Plainfield, N. J.	Sauer Motor Company
12,000 Gravity Tank 9,000 Pressure Tank	163-171 Carlton Ave., Brooklyn, New York	W. W. De Bevoise
30,000 Steel Tank	West New York	Paul G. Mehlin & Sons
30,000 Gravity Tank 3-7,500 Pressure Tanks	1926 Broadway	Halstead H. Frost, Jr.
10,000 Gravity Tank 7,500 Pressure Tank	115-117 W. 27th St.	Gross, Engel & Co.
50,000 Steel Tank	Adams and Plymouth Sts., Brooklyn, New York	E. W. Bliss Company
10,000 Gravity Tank	88-90 Walker Street	Rosenstock & Hellinger
5,000 Gravity Tank 5,000 Pressure Tank	21 Washington Place	Mrs. Emma A. Bradford
10,000 Gravity Tank 7,500 Pressure Tank	104-108 W. 27th St.	I. Unterberg
10,000 Gravity Tank 7.500 Pressure Tank 3,500 Stand-pipe Tank	35 East 12th Street	Folsom Estate Agency
10,000 Gravity Tank 7,500 Pressure Tank	Leggett & Whitlock Sts.	Earnest Gabler & Bros.
10,000 Gravity Tank 7,500 Pressure Tank	18 East 16th Street	Simon H. Kugel
10.000 Gravity Tank 7,500 Pressure Tank	737 Broadway	H. L. R. Edgar
2-9,000 Pressure Tanks	Hoboken, N. J.	Hoboken Land and Im- Provement Company
25,000 Gravity Tank	1248 Atlantic Ave., Brooklyn, New York	Metropolitan Engineering Company
12,000 Gravity Tank 9,000 Pressure Tank	Elizabeth, N. J.	Goerke-Kirch Company
10.000 Gravity Tank 9,000 Pressure Tank	1072 Atlantic Ave., Brooklyn, New York	Otto Wissner
10,000 Gravity Tank 7,500 Pressure Tank	28-32 West 27th St.	Sperry Realty Company
10,000 Gravity Tank	9 West 20th Street	E. P. Slevin
75,000 Tank and Tower	Hawthorne, N. J.	
5,000 Gravity Tank 5,000 Pressure Tank	9 East 4th Street	Mary M. Mills
40,000 Gravity Tank	Woodhaven, L. I.	Speer & Company

SUPERIOR TANKS

Digitized by GOO Page Fifty-nine

EQUIPMENT.	LOCATION.	OWNER.
10,000 Gravity Tank 7,500 Pressure Tank	29-33 E. 19th St.	Kendall Estate
40,000 Gravity Tank	232 Taafe Place, Brook- lyn, New York	Julius Kayser & Co.
12,000 Gravity Tank 9,000 Pressure Tank	Broadway and 22nd St.	Stein-Doblin Co.
10,000 Gravity Tank 7,500 Pressure Tank	273 Van Sinderen Ave., Brooklyn, New York	Levin-Kronenberg & Co.
50,000 Gravity Tank	Long Island City, N. J.	General Vehicle Co.
2-7,500 Pressure Tanks	409 Pearl Street	Scott & Boone
40,000 Gravity Tank 4-7,500 Pressure Tanks	Washington and West Sts.	Varick Realty Co.
10,000 Gravity Tank 7,500 Pressure Tank	112-116 Bleecker St.	Collegiate Baptist Church
15,000 Gravity Tank 2-6,000 Pressure Tanks	Fourth Street S. E. C. Lafayette St.	Chas. Lane
12,000 Gravity Tank 9,000 Pressure Tank	306 Sixth Avenue	Est. Andrew Alexander
12,000 Gravity Tank 9,000 Pressure Tank	39-47 W. 19th Street	Title Guarantee and Trust Company
10,000 Gravity Tank 7,500 Pressure Tank	74-76 Fifth Avenue	Title Guarantee and Trust Company
20,000 Gravity Tank 2-7,500 Pressure Tanks	Brooklyn, New York Flatbush and Nevins Sts.	Abraham & Straus
20,000 Gravity Tank	647 Lexington Avenue, Brooklyn, New York	Geo. Baker & Sons
4-20,000 Steel Tanks	Brooklyn, New York	Robert Gair Company
4-6,000 Pressure Tanks	216 William Street	Met. Realty Company
20,000 Tank and 75 ft. Tower	Newark, New Jersey	H. D. Parmelee Mfg. Co.
50,000 Steel Tank and 75 ft. Tower	Whitestone, L. I.	Jacob Sulzbach
10,000 Gravity Tank 7,500 Pressure Tank	44 East 14th Street	Astor Estate
10,000 Gravity Tank 7,500 Pressure Tank	37-39 W. 28th St.	Rexton Realty Co.
2-7,500 Pressure Tanks	220-230 W. 19th St.	E. S. Willard & Co.
5,000 Stand-pipe Tank	90 Prince Street	Frederick Southhack & Alwyn Ball, Jr.
2-5,000 Gravity Tanks 5,000 Pressure Tank	137 Fifth Avenue	Eugene Higgins
2-7,500 Pressure Tanks	65-67 Bleecker St.	Chas. T. Wills
10,000 Gravity Tank 7,500 Pressure Tank	28-30 W. 25th St.	Henry P. Gardner
1-25,000 Gravity Tank 2-9,000 Pressure Tanks	27-83 W. 23rd St.	Caroline H. Johnston
10,000 Gravity Tank	27-31 Bleecker St.	Conrad Stein
10,000 Gravity Tank 7,500 Pressure Tank	126-130 W. 22nd St.	Hy. R. Drowne
12,000 Gravity Tank 9,000 Pressure Tank	35-37 W. 3rd Street	Frank E. Lonos and Mary L. Richards
3,500 Stand-pipe Tank	75-77 Spring Street	Com. Chas. A. Gould

SUPERIOR TANKS Digitized by Google

(Page Sixty)

EQUIPMENT.	LOCATION.	OWNER.
10,000 Gravity Tank 7,500 Pressure Tank	46-54 Irving Street. Brooklyn, New York	Hills Bros. Company
10,000 Gravity Tank	Pittsburg, Pa.	Bedell Company
10,000 Gravity Tank 7,500 Pressure Tank	33-37 Bleecker St.	Equitable Life Insurance Society
10,000 Gravity Tank	153-157 W. 23rd St.	County Holding Co. (2)
25,000 Gravity Tank on a 25 ft. Tower	Fort Lee, N. J.	Motion Picture Prop. Company
20,000 Gravity Tank on a 25 ft. Tower	14th and Hancock Sts., Long Island City, L. I.	C. A. Willey Company
2-17,500 Steel Tanks	141-155 E. 25th St.	N. Y. Railways Company
10,000 Gravity Tank	121-123 Mercer St.	Chas. Broadway Rouss
4-7,500 Pressure Tanks	111 Fifth Avenue	Constable Estate
2-50,000 Steel Tanks	Communipaw, N. J.	National Storage Co.
10,000 Gravity Tank 7,500 Pressure Tank	500-508 E. 134th St.	Staib-Abendschein Co.
10,000 Gravity Tank 7,500 Pressure Tank	19-21 W. 36th Street	Wm. M. Sperry
12,000 Gravity Tank 9,000 Pressure Tank	112-116 W. 18th St.	Edw. Jansen
10,000 Gravity Tank 7,500 Pressure Tank	75-77 Spring Street	Com. Chas. A. Gould
10,000 Gravity Tank 7,500 Pressure Tank	127-131 W. 25th St.	Hudson Mortgage Co.
10,000 Gravity Tank 7,500 Pressure Tank	146-150 W. 25th St.	Isabel A. Cohen
2-7,500 Pressure Tanks	20-22 Nassau Street	Mechanics & Metals National Bank
10,000 Gravity Tank 7,500 Pressure Tank	782-786 Wythe Avenue, Brooklyn, New York	S. J. Stanfield
10,000 Gravity Tank 7,500 Pressure Tank	15-17 E. 16th Street	George Holding Co.
10,000 Gravity Tank 7,500 Pressure Tank	32-34 W. 20th Street	David Price
40,000 Tank	Ampere, N. J.	Ward Baking Company
30,000 Tank on a 60 ft. Tower	Belleville, N. J.	Hardman Tire and Rub- ber Company
10,000 Gravity Tank 7,500 Pressure Tank	134-140 W. 26th St.	Eagle Improvement Co.
10,000 Gravity Tank 7,500 Pressure Tank	225-227 E. 36th St.	Mrs. Elsa A. Beckel
10,000 Gravity Tank 7,500 Pressure Tank	142 Fifth Avenue	Est. of H. O. Havemeyer
15.000 Gravity Tank 2-6,000 Pressure Tanks	Hudson and Duane Sts.	L. Schepp Company

SUPERIOR TANKS -

Digitized by GOO (Rage-Sixty-one)



PREE PRESS PUBLISHING CO. Easton, Pennstlvania





TIPPETT & WOOD PHILLIPSBURG, N. J.