

## Wheatland Tube Co. Mega-Flow Pipe

**Table-1**

**Mega Flow (A-795-E) Pipe Properties**

Pipe NPS In.	Pipe 't' In.	Pipe ID 'd' In.	Pipe OD 'D' In.	Inside Area 'Ai' In. <sup>2</sup>	Metal Area 'Am' In. <sup>2</sup>	Wt Per ft. 'w <sub>1</sub> ' Lb.	Wt of Water. 'w <sub>2</sub> ' Lb.	Moment of Intertia 'I' In <sup>4</sup>	Section Mod. 'S' In <sup>3</sup>	Radius of Gyration 'r' In	Weight 'w' Lb/Ft w <sub>1</sub> +w <sub>2</sub>	Hanger Span Ft. (max)	Trapeze Load P Lb. = w+250
<b>1 1/4</b>	0.066	1.528	1.660	1.834	0.331	1.12	0.79	0.11	0.13	0.56	1.92	15	279
<b>1 1/2</b>	0.080	1.740	1.900	2.378	0.457	1.56	1.03	0.19	0.20	0.64	2.59	15	289
<b>2</b>	0.080	2.215	2.375	3.853	0.577	1.96	1.67	0.38	0.32	0.81	3.63	15	304
<b>2 1/2</b>	0.084	2.707	2.875	5.755	0.737	2.51	2.49	0.72	0.50	0.99	5.00	15	325
<b>3</b>	0.092	3.316	3.500	8.636	0.985	3.35	3.74	1.43	0.82	1.21	7.09	15	356
<b>4</b>	0.096	4.308	4.500	14.576	1.328	4.52	6.31	3.22	1.43	1.56	10.83	15	412
<b>6</b>	0.115	6.395	6.625	32.120	2.352	8.00	13.90	12.46	3.76	2.30	21.90	15	579

**Table-2**

**MegaFlow Section Modulus Required (minimum) for Trapeze Members (in<sup>3</sup>)**

**Nominal Diameter of MegaFlow Pipe Being Supported**

Span of Trapeze 'a' ↓	1 1/4 In.	1 1/2 In.	2 In.	2 1/2 In.	3 In.	4 In.	6 In.
<b>1'-6"</b>	0.08	0.09	0.09	0.10	0.11	0.12	0.17
<b>2'-0"</b>	0.11	0.12	0.12	0.13	0.14	0.16	0.23
<b>2'-6"</b>	0.14	0.14	0.15	0.16	0.18	0.21	0.29
<b>3'-0"</b>	0.17	0.17	0.18	0.19	0.21	0.25	0.35
<b>4'-0"</b>	0.22	0.23	0.24	0.26	0.29	0.33	0.46
<b>5'-0"</b>	0.28	0.29	0.30	0.32	0.36	0.41	0.58
<b>6'-0"</b>	0.33	0.35	0.37	0.39	0.43	0.49	0.69
<b>7'-0"</b>	0.39	0.40	0.43	0.45	0.50	0.58	0.81
<b>8'-0"</b>	0.45	0.46	0.49	0.52	0.57	0.66	0.93
<b>9'-0"</b>	0.50	0.52	0.55	0.58	0.64	0.74	1.04
<b>10'-0"</b>	0.56	0.58	0.61	0.65	0.71	0.82	1.16

The Table is based on a maximum bending stress of 15 ksi and a midspan concentrated load from 15 ft of water-filled pipe, plus 250 lb.



**Wheatland** *Tube*

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**Wheatland Tube Co. MegaFlow Pipe**  
**Table-3**

ZONE OF INFLUENCE (ZOI) LOAD CAPACITY (Lb) AT THE CENTER OF THE SPAN Lateral Sway Brace Spacing (Ft) <sup>a</sup> on MegaFlow Pipe (Fy = 30 ksi) <sup>e</sup> -- ref. NFPA 13 (2022) Table 18.5.5.3					
Pipe Diameter (In)	20 <sup>b</sup>	25 <sup>b</sup>	30 <sup>c</sup>	35 <sup>c</sup>	40 <sup>d</sup>
1 1/4	118	94	77	66	55
1 1/2	185	148	122	104	87
2	297	238	195	167	140
2 1/2	464	371	304	260	218
3	759	607	498	427	357
4	1330	1064	871	747	625
6 <sup>e</sup>	3494	2795	2290	1963	1644

**Notes:**

<sup>a</sup> The Tables for the maximum load Fpw in zone of influence (ZOI) are based on specific configurations of mains and branch lines.

<sup>b</sup> Assumes branch lines at center of pipe span and near each support.

<sup>c</sup> Assumes branch lines at third-points of pipe span and near each support.

<sup>d</sup> Assumes branch lines at quarter-points of pipe span and near each support.

<sup>e</sup> ASTM A795 has a minimum yield strength (Fy) = 30 ksi. Effect on overall stresses in the pipe due to operational stresses is not considered.