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Pipe Selection Guide

GUIDE TO SELECTION

PIPE — CARBON STEEL

CONTINUOUS BUTTWELD. A general purpose pipe for use in steam, gas and air lines. Not intended for close coiling, bending or high temperature service. Stocked in standard black coating. No color identification. Meets ASTM A53 Type F (which has replaced the obsolete ASTM A120 specification). No minimum mechanical properties specified.

ELECTRIC RESISTANCE WELDED. (ERW) Suitable width=100% for welding, coiling, bending, flaring and flanging. Pressure tested. Standard black coating. Plain ends, bevelled edge. No color identification. Meets ASTM A53 Grade B Type E (electrical resistance welded).

Minimum Mechanical Properties

Tensile strength psi 60,000

Yield strength psi 35,000

PIPE SIZE ERW. A structural purpose pipe sized tube ordered to ASTM A500. Compared to pipe, this product offers higher strength, better straightness as well as a superior finish and usually costs less than pipe.

Minimum Mechanical Properties

Tensile strength psi 62,000

Yield strength psi 46,000

Nominal Size in Inch	Weight per Ft. in Lbs.	O.D. in Inches	Wall Thickness Inches	Butt Welded ASTM A53F	ERW ASTM A53E	Pipe Size ERW
Schedule 10						
1	1.404	1.315	.1090			X
1 1/4	1.806	1.660	.1090			X
1 1/2	2.085	1.900	.1090			X
2	2.638	2.375	.1090			X
Schedule 40 - Standard'						
1/8	.2400	.405	.0680	X		
1/4	.4200	.540	.0880	X		
3/8	.5700	.675	.0910	X		
1/2	.8500	.840	.1090	X	X	X

3/4	1.130	1.050	.1130	X	X	X
1	1.680	1.315	.1330	X		X
1 1/4	2.270	1.660	.1400	X		X
1 1/2	2.720	1.900	.1450	X		X
2	3.650	2.375	.1540	X		X
2 1/2	5.790	2.875	.2030	X	X	X
3	7.580	3.500	.2160	X	X	X
3 1/2	9.110	4.000	.2260	X	X	X
4	10.79	4.500	.2370	X	X	X
5	14.62	5.563	.2580		X	
6	18.97	6.625	.2800		X	X
8	28.55	8.625	.3220		X	X
10	40.48	10.750	.3650		X	
12	49.56	12.750	.3750		X	
14	54.57	14.000	.3750		X	
16	62.58	16.000	.3750		X	
Schedule 80 - Extra Heavy"						
1/4	.5400	.540	.1190	X		
3/8	.7388	.675	.1260	X		
1/2	1.090	.840	.1470	X		
3/4	1.470	1.050	.1540	X		
1	2.170	1.315	.1790	X		
1 1/4	3.000	1.660	.1910	X		
1 1/2	3.630	1.900	.2000	X		
2	5.020	2.375	.2180	X		
2 1/2	7.660	2.875	.2760	X		
3	10.25	3.500	.3000	X		
3 1/2	12.51	4.000	.3180	X		
4	14.98	4.500	.3370	X		
10	54.74	10.750	.5000		X	
12	65.42	12.750	.5000		X	
14	72.09	14.000	.5000		X	
16	82.77	16.000	.5000		X	
Schedule 100 - Double Extra Heavy						
1 1/2	6.410	1.900	.4000	X		
8	50.93	8.625	.5940		X	

' For sizes under 12" Schedule 40 and Standard are the same.

" For sizes under 10" Schedule 80 and Extra Heavy are the same.

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