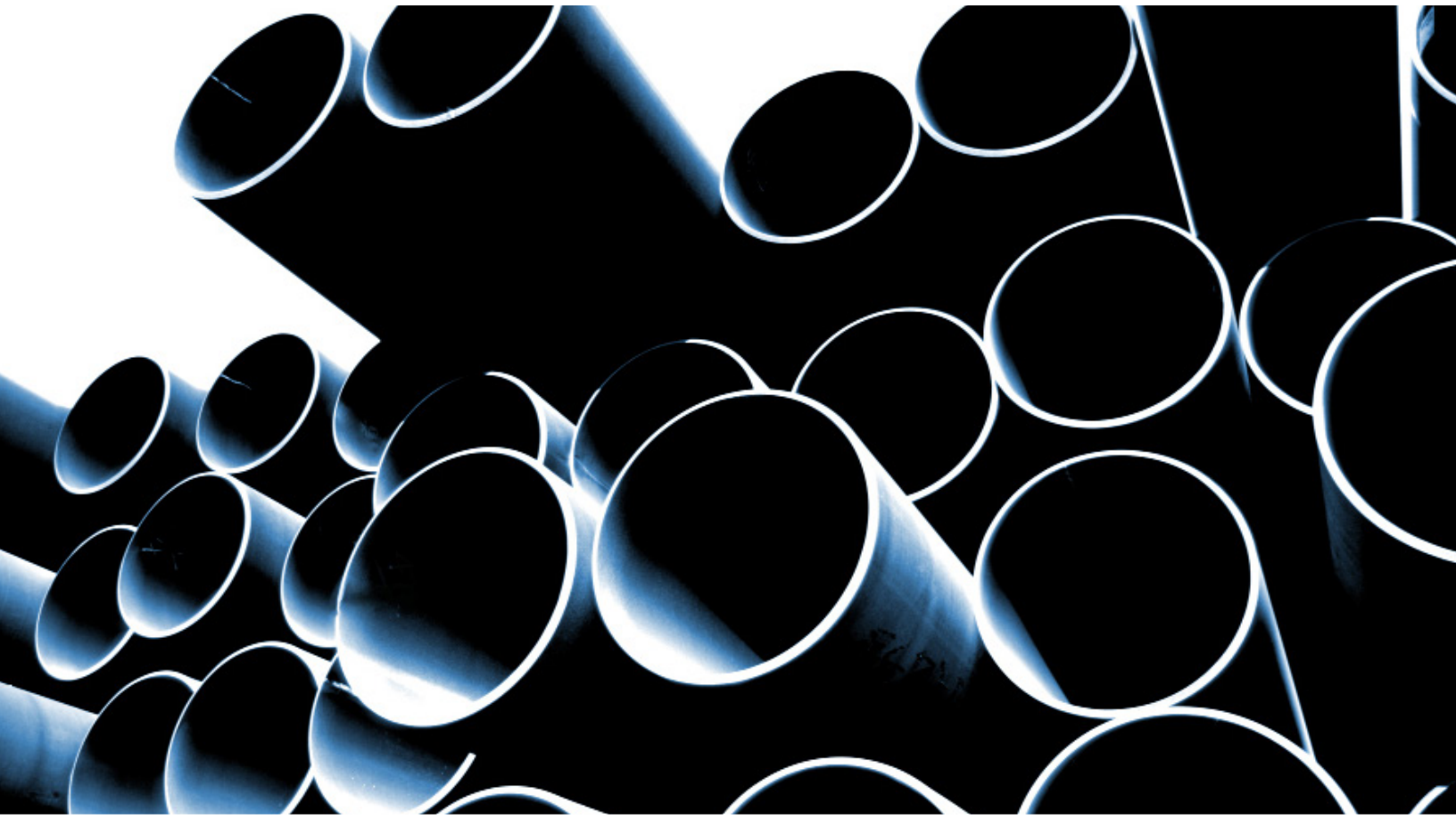




EDGEN



YOUR

TRUSTED PIPE

SUPPLIER

VALUE ADDED SERVICES

Edgen Murray specializes in the supply of prime domestic and foreign materials. Manufactured to the highest quality standards by our pre-qualified manufacturers, all products are fully traceable back to raw materials and are certified to API and ASTM standards, in accordance with EN 10204.

We provide pipe for onshore, offshore, midstream and downstream applications, including line pipe, pipe for high temperature and pressure environments, abrasion resistant and HDPE pipe.

Typical Stock Size Range:
(size range might differ based on material grade)

- ERW - 1/2 nominal to 26" OD
- SAW - 24" OD to 48" OD (larger on request)
- SMLS - 1/2" nominal to 36" OD
- Pressure Equipment Directive (PED) and NACE MRO 0103 and MRO 0175 as applicable.

CUSTOMER SERVICE

Edgen Murray is dedicated to customer service providing single points of contact for large project orders, streamlining communication across all parties. Edgen Murray strives to foster relationships built on credibility and trust demonstrating value to our customers while creating an individualized, world-



LOGISTICS AND FIELD SERVICE

Edgen Murray has logistics expertise to handle moving materials from our stocking locations, vessels, or our manufacturers/coaters directly to our customer's jobsite. We have extensive experience in allocating carriers based on delivery requirements. We strive for on-time deliveries, quick and accurate communication, and being accessible after hours, weekends and holidays to support our customers.



MATERIAL PROPERTIES FOR PIPE AND TUBE

SUPPLY CONDITION

Our structural and process materials are offered in many supply conditions, including:

- PSL1, PSL2
- Seamless hot and cold finished
- Rolled and welded, including from HIC plate
- Annealed
- Normalized
- Quenched and tempered (Q&T)
- Thermo-mechanically control rolled and welded (TMCP)

Post weld heat treated (PWHT) testing

- Supplementary requirements
- Client specific non-destructive examinations
- Client specific destructive examinations
- Non-standard tolerances
- Specific restriction in residual elements

Certification: EN 10204 3.1 and 3.2 - Lloyds,
GL, ABS, DNV, BV

MATERIAL GRADES

LINE PIPE / API X GRADES HIGH YIELD CARBON STEEL

MATERIAL SPECIFICATION	GRADES
API 5L (PSL-1, PSL-2)	X42, X52, X60, X65, X70, X80
ASTM/ASME A/SA53	Grade A, B
ASTM/ASME A/SA106	Grade B, C
ASTM A252	Class 2, 3

LOW AND MODERATE TEMPERATURE CARBON AND ALLOY STEEL

MATERIAL SPECIFICATION	GRADES
ASTM/ASME A/SA333	Grade 1-6

COATED LINE PIPE

Our in-house expertise and experience in the manufacture, supply and delivery of API coated line pipe to the oil and gas, water and slurry pipeline markets, allows us to support you at every step of your project's lifecycle. This includes planning, prequalification and audit, procurement, production surveillance, quality management in addition to onshore and offshore logistics solutions.

COATINGS	LAYERS	CHARACTERISTICS	SPECIFICATIONS
Internal Coating	<ul style="list-style-type: none"> • Single Layer of Liquid Epoxy • FBE • Anticorrosive Painting 	We offer a variety of internal coatings, anti-corrosion options, resistant to many solvents and chemicals, resistant to cathodic disbondment for onshore line pipe applications	<ul style="list-style-type: none"> • API 5L9 • NACE RP0394
Fusion Bonded Epoxy (FBE)	Single Layer FBE	<ul style="list-style-type: none"> • Long term corrosion protection • Good mechanical and chemical protection • Max operating temp. -22°F to 230°F 	<ul style="list-style-type: none"> • API 5L9 • NACE RP0394
Dual Layer Fusion Bonded Epoxy (ARO)	<ul style="list-style-type: none"> • 1 Layer FBE • 1 Layer ARO 	<ul style="list-style-type: none"> • Excellent impact and abrasion resistance • Resistance to cathodic disbondment • Max operating temp. -22°F to 230°F 	<ul style="list-style-type: none"> • API 5L9 • NACE RP0394
Three Layer Polyethylene (3LPE)	<ul style="list-style-type: none"> • 1st - FBE • 2nd - Copolymer Adhesive • 3rd - Polyethylene 	<ul style="list-style-type: none"> • Long term corrosion protection • Very good mechanical protection • Max operating temp. -40°F to 185°F 	<ul style="list-style-type: none"> • CSA Z245.21-02 • DIN 30670 • AS 1518
Three Layer Polypropylene (3LPP)	<ul style="list-style-type: none"> • 1st - FBE • 2nd - Copolymer Adhesive • 3rd - Polypropylene 	<ul style="list-style-type: none"> • High temp corrosion protection • Excellent mechanical protection • Max operating temp. -4°F to 230°F 	<ul style="list-style-type: none"> • CSA Z245.20-02 • DIN 30670 • DIN 30678
Concrete Weight Coating (CWC)	<ul style="list-style-type: none"> • 1st - Anti-corrosion Coating / FBE • 2nd - Reinforced Concrete • 3rd - Outer Wrap 	Negative buoyancy and mechanical protection coating thickness: 0.984" to 5.90"	ISO 21809-5:2010
Powercrete	2ND Layer – Powercrete	Applied directly on the FBE mainline coating of a pipeline to provide a high-performance protection to the system under rough terrain conditions	Manufacturers application recommended procedures
Two Layer Polyolefin PRITEC®	<ul style="list-style-type: none"> • 1st - Butyl Rubber Adhesive • 2nd - Polyethylene Topcoat 	<ul style="list-style-type: none"> • Long term corrosion protection • Excellent mechanical protection • Effective both above and underground • Max operating temp. -40 F to 180 F 	<ul style="list-style-type: none"> • NACE SP0185 • AWWA C215



CIVIL INFRASTRUCTURE

Our comprehensive pipe pile solution, include engineering support for fully fabricated steel pipe piles for deep foundations in marine structures, levee systems, bridges and multi-modal facilities. All elements essential to provide our clients with a complete solution to their piling needs.

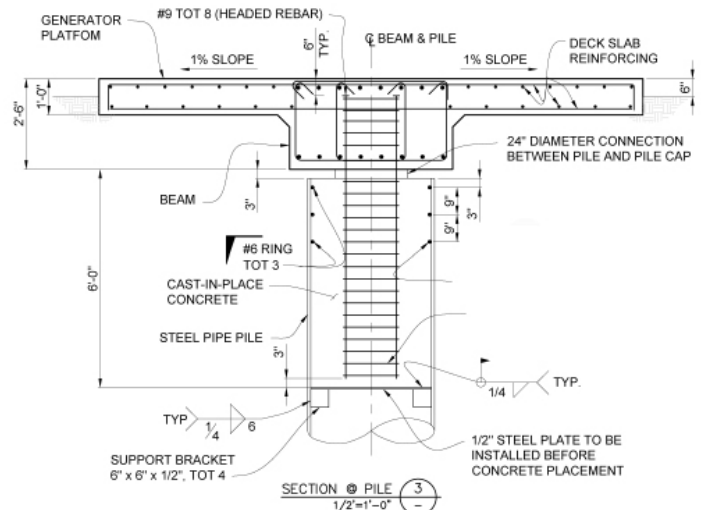
Steel & Piling for:

- LNG Import/Export Facility Upgrades
- Deep Foundations
- Ports, Harbors, and Marine Terminals
- Inland Waterways - Locks and Dams
- Flood Protection - Levee Systems
- Public Transportation Infrastructure
- Urban Mass Transit/Light Rail
- Support of Excavation (SOE)
- Highways and Bridges
- Multi-modal Facilities
- Airport Hydrant/Refueling Systems



PILING ACCESSORIES AND SERVICES

- Pile Driving/Cutting Shoes/Conical Points
- Corrosion Coatings and Linings
- Shear Rings and Lifting Lugs
- Support Brackets/Bulkhead Plates
- Splicing and Delivery of Full Engineered Length
- Fabrication to AWS D1.1 and DOT Specification
- Logistics: Truck, Rail, Barge and Storage



ABRASIVE/ABRASION RESISTANT PIPE

Edgen Murray is a principal provider of Abrasion Resistant Pipe (Slurry Pipe) for the U.S. and Canada. With a minimum average brinell of 230, the pipe's highly durable composition is resistant to wear and abrasive materials, yet maintains ductility and workability in the field. These qualities make AR pipe the most cost-effective option for long-term use in various mining activities, dredging, power plants and other abrasive applications.

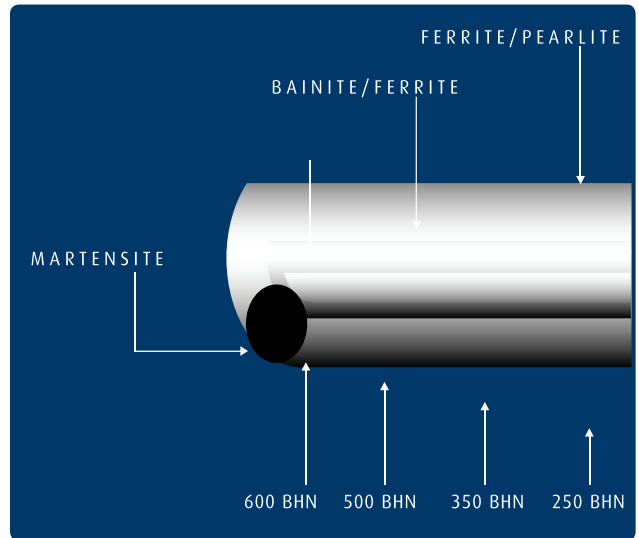
Edgen Murray surpasses other distributors in knowledge and experience, and offers considerable expertise in flanging services and welding in the field. Mill test reports certifying chemical and physical properties are available on all AR pipe.

PHYSICAL PROPERTIES	
Elongation	Minimum 20%
Brinell Hardness	Minimum average 230 bhn
Weld Flash	Maximum height of 1/8", with a minimum wall thickness of 95% of nominal wall thickness.
Wall Thickness	The average wall thickness of all pipe combined on a given rolling shall not be less than the nominal wall thickness.
Diameter	The diameter of no more than 1/32" smaller or 3/32" larger than the tabulated outside diameter for a distance of 4" from the end of the pipe.
Weight	Each pipe joint shall not weigh less than 95% of it's nominal weight.
Length	AR pipe is available in uniform lengths up to 100 ft. With a length tolerance of plus or minus one inch.



INDUCTION HARDENED PIPE

Edgen Murray is your source for IH pipe. The induction-hardened process begins by transforming medium-carbon, low-alloy steel pipe to a large face-centered cubic structure by passing it through an induction coil thereby heating it to a fully austenitic temperature, typically greater than 1550°F. The microstructure is then altered to a body-centered tetragonal configuration by rapidly quenching the inside diameter with treated coolant. Martensite, the resulting needle-like structure is tightly packed and interlocked, giving the steel its high hardness level that extends into the pipe wall.



As the distance from the inner pipe wall increases, the hardness tapers and the ductility increases to the outer surface into the pipe wall. As the distance from the inner pipe wall increases, the hardness tapers and the ductility increases to the outer surface.

	API 5L X-GRADES	ABRASIVE RESISTANT PIPE	INDUCTION-HARDENED PIPE
Hardness	150-170	280	480-650
Abrasion Resistant	Moderate	Good	Very good
Impact Resistant	Good	Good	Moderate
Strength	Good	Very Good	Excellent
Lengths	100'	100'	50'
Handling & Installation	Excellent	Excellent	Very good
Fabrication	Unlimited	Unlimited	Some limitations
Wear Monitored	Yes/UT	Yes/UT	Yes/UT
Emergency Repair	Easily completed	Easily completed	Easily patched
Initial Cost	10% above mild steel	15-25% above mild steel	50-100% above mild steel
Typical Life Expectancy	Up to 1.5 times mild steel	Up to 3 times mild steel	Mild steel
Advantages	Improved wear over mild steel; Lengths to 100'; good ductility	Vast improvement over mild steel; Lengths to 100'; good ductility	Up to 6 times Mild Steel Excellent combination of abrasion & impact resistance
Disadvantages	Limited in wear No corrosion resistance	No corrosion resistance	Limited in wear No corrosion resistance

NOM PIPE SIZE	O.D. IN INCHES	Pipe sizes made to API and other standards NOT SCHEDULED										Upper Figures = Wall Thickness in Inches Lower Figures = Weight per Foot in Pounds				
		O.D. – Wall x Wall x 10.69 = Weight per Foot of Steel Pipe (P.E.)														
2	2.375	0.065 1.61	0.083 2.03	0.109 2.64	0.120 2.89	0.134 3.21	0.154 3.66	0.188 4.40	4.44	0.218 5.03	0.254 5.76	0.281 6.29	0.344 7.47	0.375 8.02	0.436 9.04	0.500 10.02
2½	2.875	0.078 2.33	0.083 2.48	0.109 3.22	0.120 3.53	0.141 4.12	0.154 4.48	0.188 5.40	0.203 5.80	0.216 6.14	0.217 6.17	0.250 7.02	0.276 7.67	0.308 8.45	0.375 10.02	0.552 13.71
3	3.500	0.078 2.85	0.083 3.03	0.109 3.95	0.120 4.34	0.125 4.51	0.141 5.06	0.156 5.58	0.188 6.66	0.216 7.58	0.250 8.69	0.254 8.81	0.281 9.67	0.300 10.26	0.438 14.34	0.600 18.60
3½	4.000	0.083 3.48	0.094 3.92	0.109 4.53	0.120 4.98	0.125 5.18	0.141 5.82	0.156 6.41	0.172 7.04	0.188 7.66	0.226 9.12	0.250 10.02	0.262 10.47	0.281 11.17	0.318 12.52	0.636 22.87
4	4.500	0.083 3.92	0.109 5.12	0.120 5.62	0.125 5.85	0.141 6.57	0.156 7.24	0.172 7.96	0.188 8.67	0.203 9.32	0.219 10.02	0.224 10.24	0.250 11.36	0.290 13.05	0.312 13.97	0.375 16.54
4½	5.000	0.120 6.26	0.125 6.51	0.156 8.08	0.188 9.67	0.203 10.41	0.219 11.19	0.237 12.07	0.253 12.84	0.296 14.88	0.362 17.95	0.437 21.32	0.500 24.05	0.562 26.66	0.750 34.07	1.250 50.11
5	5.563	0.083 4.86	0.109 6.36	0.125 7.27	0.134 7.78	0.156 9.02	0.188 10.80	0.219 12.51	0.258 14.63	0.281 15.87	0.312 17.51	0.344 19.19	0.375 20.80	0.500 27.06	0.625 32.99	0.750 38.59
6	6.625	0.109 7.59	0.125 8.69	0.134 9.30	0.141 9.77	0.156 10.79	0.172 11.87	0.188 12.94	0.203 13.94	0.219 15.00	0.250 17.04	0.312 21.06	0.344 23.10	0.375 25.05	0.500 32.74	0.625 40.09
8	8.625	0.109 9.92	0.125 11.36	0.156 14.12	0.172 15.54	0.188 16.96	0.203 18.28	0.219 19.68	0.264 23.60	0.312 27.73	0.344 30.45	0.375 33.07	0.438 38.33	0.562 48.44	0.812 67.82	0.875 72.49
10	10.75	0.156 17.67	0.172 19.45	0.188 21.23	0.203 22.89	0.219 24.65	0.279 31.23	0.344 38.27	0.350 38.91	0.400 44.26	0.438 48.28	0.562 61.21	0.625 67.65	0.812 86.26	1.000 104.23	1.250 126.94
12	12.75	0.172 23.13	0.188 25.25	0.203 27.23	0.219 29.34	0.281 37.46	0.312 41.48	0.344 45.62	0.438 57.65	0.625 81.01	0.750 96.21	0.812 103.63	0.875 111.08	1.500 180.39	1.750 205.78	2.000 229.84
14	14.00	0.188 27.76	0.203 29.94	0.219 32.26	0.281 41.21	0.344 50.22	0.406 59.00	0.469 67.84	0.562 80.73	0.625 89.36	0.688 97.91	0.812 114.48	0.875 122.77	2.000 256.56	2.125 269.76	2.500 307.34
16	16.00	0.188 31.78	0.203 34.28	0.219 36.95	0.281 47.22	0.344 57.57	0.406 67.68	0.438 72.86	0.469 77.87	0.625 102.72	0.750 122.27	0.812 131.84	0.938 151.03	1.125 178.89	1.618 248.76	2.000 299.32
18	18.00	0.188 35.80	0.219 41.63	0.281 53.23	0.344 64.93	0.406 76.36	0.469 87.89	0.625 116.09	0.688 127.32	0.812 149.20	0.875 160.18	1.000 181.73	1.125 202.94	1.250 223.82	1.500 264.58	1.562 274.48
20	20.00	0.219 46.31	0.281 59.23	0.312 65.66	0.344 72.28	0.406 85.04	0.438 91.59	0.469 97.92	0.625 129.45	0.750 154.34	0.875 178.89	1.000 203.11	1.250 250.55	1.375 273.76	1.500 296.65	1.750 341.41
22	22.00	0.219 50.99	0.281 65.24	0.312 72.34	0.344 79.64	0.406 93.72	0.438 100.96	0.469 107.95	0.625 142.81	0.750 170.37	1.000 224.49	1.219 270.80	1.250 277.27	1.625 353.94	1.875 403.38	2.125 451.49
24	24.00	0.281 71.25	0.312 79.01	0.344 86.99	0.406 102.40	0.438 110.32	0.469 117.98	0.625 156.17	0.750 186.41	0.875 216.31	1.000 245.87	1.250 304.00	1.312 318.21	1.500 360.79	1.812 429.79	2.343 542.44
26	26.00	0.250 68.82	0.281 77.26	0.344 94.35	0.406 111.08	0.438 119.69	0.469 128.00	0.562 152.83	0.625 169.54	0.656 177.73	0.688 186.16	0.750 202.44	0.875 235.01	1.000 267.25	1.188 315.11	1.250 330.72
28	28.00	0.250 74.16	0.312 92.35	0.375 110.74	0.500 146.99	0.625 182.90	0.750 218.48	0.875 253.72	1.000 288.63	1.250 357.45	1.500 424.93					
30	30.00	0.281 89.27	0.344 109.06	0.406 128.44	0.438 138.42	0.469 148.06	0.562 176.86	0.656 205.78	0.750 234.51	0.875 272.43	1.000 310.01	1.250 384.17	1.375 420.75	1.500 457.00	1.750 528.49	2.500 734.94
32	32.00	0.312 105.69	0.375 126.78	0.500 168.37	0.625 209.62	0.750 250.55	0.875 291.14	1.000 331.39	1.250 410.90							
34	34.00	0.312 112.36	0.375 134.79	0.500 179.06	0.625 222.99	0.750 266.58	1.000 352.77									
36	36.00	0.281 107.30	0.312 119.03	0.344 131.12	0.406 154.48	0.438 166.51	0.469 178.14	0.562 212.90	0.656 247.85	0.688 259.71	0.875 328.55	1.000 374.15	1.250 464.35	1.500 553.21	1.750 640.73	2.000 726.92
40	40.00	0.312 132.37	0.375 158.85	0.500 211.13	0.562 236.93	0.625 263.07	0.750 314.69	1.000 416.91								
42	42.00	0.312 139.04	0.344 153.18	0.406 180.52	0.438 194.60	0.469 208.22	0.562 248.95	0.625 276.44	0.656 289.93	0.688 303.84	0.750 330.72	0.875 384.67	1.000 438.29	1.125 491.57	1.250 544.52	1.500 649.42
48	48.00	0.406 206.56	0.438 222.70	0.469 238.30	0.562 285.00	0.625 316.52	0.656 332.01	0.688 347.97	0.750 378.83	0.812 409.61	0.875 440.80	0.938 471.90	1.000 502.43	1.125 563.73	1.250 624.70	1.500 745.63
54	54.00	0.250 143.65	0.312 179.06	0.344 197.31	0.375 214.97	0.406 232.61	0.438 250.79	0.469 268.38	0.500 285.96	0.562 321.04	0.625 356.61	0.750 426.93	0.812 461.69	0.875 496.92	0.938 532.06	1.000 566.57
60	60.00	0.250 159.68	0.312 199.08	0.344 219.38	0.375 239.02	0.406 258.65	0.438 278.88	0.465 295.94	0.500 318.03	0.562 357.09	0.625 396.70	0.688 436.22	0.750 475.04	0.812 513.77	0.875 553.04	1.000 630.71

PIPE SIZE	O.D. IN INCHES	PIPE SCHEDULES															DBLE E.H.
		5S	5	10S	10	20	30	STD.	40	60	E.H.	80	100	120	140	160	
1/8	0.405				0.049 0.186			0.068 0.245	0.068 0.245		0.095 0.315	0.095 0.315					
1/4	0.540				0.065 0.330			0.088 0.425	0.088 0.425		0.119 0.536	0.119 0.536					
3/8	0.675				0.065 0.424			0.091 0.568	0.091 0.568		0.126 0.739	0.126 0.739					
1/2	0.840		0.065 0.539		0.083 0.672			0.109 0.852	0.109 0.852		0.147 1.089	0.147 1.089				0.188 1.310	0.294 1.716
3/4	1.050	0.065 0.68		0.083 0.86				0.113 1.13	0.113 1.13		0.154 1.48	0.154 1.48				0.218 1.94	0.308 2.44
1	1.315	0.065 0.87		0.109 1.41				0.133 1.68	0.133 1.68		0.179 2.17	0.179 2.17				0.250 2.85	0.358 3.66
1¼	1.660	0.065 1.11		0.109 1.81				0.140 2.27	0.140 2.27		0.191 3.00	0.191 3.00				0.250 3.77	0.382 5.22
1½	1.900	0.065 1.28		0.109 2.09				0.145 2.72	0.145 2.72		0.200 3.63	0.200 3.63				0.281 4.86	0.400 6.41
2	2.375	0.065 1.61		0.109 2.64				0.154 3.66	0.154 3.66		0.218 5.03	0.218 5.03				0.344 7.47	0.436 9.04
2½	2.875	0.083 2.48		0.120 3.53				0.203 5.80	0.203 5.80		0.276 7.67	0.276 7.67				0.375 10.02	0.552 13.71
3	3.500	0.083 3.03		0.120 4.34				0.216 7.58	0.216 7.58		0.300 10.26	0.300 10.26				0.438 14.34	0.600 18.60
3½	4.000	0.083 3.48		0.120 4.98				0.226 9.12	0.226 9.12		0.318 12.52	0.318 12.52					0.636 22.87
4	4.500	0.083 3.92		0.120 5.62				0.237 10.80	0.237 10.80		0.337 15.00	0.337 15.00		0.438 19.02		0.531 22.53	0.674 27.57
4½	5.000							0.247 12.55			0.355 17.63						0.710 32.56
5	5.563	0.109 6.36		0.134 7.78				0.258 14.63	0.258 14.63		0.375 20.80	0.375 20.80		0.500 27.06		0.625 32.99	0.750 38.59
6	6.625	0.109 7.59		0.134 9.30				0.280 18.99	0.280 18.99		0.432 28.60	0.432 28.60		0.562 36.43		0.719 45.39	0.864 53.21
8	8.625	0.109 9.92		0.148 13.41		0.250 22.38	0.277 24.72	0.322 28.58	0.322 28.58	0.406 35.67	0.500 43.43	0.500 43.43	0.594 51.00	0.719 60.77	0.812 67.82	0.906 74.76	0.875 72.49
10	10.75	0.134 15.21		0.165 18.67	0.165 18.67	0.250 28.06	0.307 34.27	0.365 40.52	0.365 40.52	0.500 54.79	0.500 54.79	0.594 64.49	0.719 77.10	0.844 89.38	1.000 104.23	1.125 115.75	1.000 104.23
12	12.75	0.156 21.00	0.165 22.20	0.180 24.19		0.250 33.41	0.330 43.81	0.375 49.61	0.406 53.57	0.562 73.22	0.500 65.48	0.688 88.71	0.844 107.42	1.000 125.61	1.125 139.81	1.312 160.42	
14	14.00	0.156 23.09		0.188 27.76	0.250 36.75	0.312 45.65	0.375 54.62	0.375 54.62	0.438 63.50	0.594 85.13	0.500 72.16	0.750 106.23	0.938 130.98	1.094 150.93	1.250 170.37	1.406 189.29	
16	16.00	0.165 27.93		0.188 31.78	0.250 42.09	0.312 52.32	0.375 62.64	0.375 62.64	0.500 82.85	0.656 107.60	0.500 82.85	0.844 136.74	1.031 164.98	1.219 192.61	1.438 223.85	1.594 245.48	
18	18.00	0.165 31.46			0.250 47.44	0.312 58.99	0.438 82.23	0.375 70.65	0.562 104.76	0.750 138.30	0.500 93.54	0.938 171.08	1.156 208.15	1.375 244.37	1.562 274.48	1.781 308.79	
20	20.00	0.188 39.82		0.218 46.10	0.250 52.78	0.375 78.67	0.500 104.23	0.375 78.67	0.594 123.23	0.812 166.56	0.500 104.23	1.031 209.06	1.281 256.34	1.500 296.65	1.750 341.41	1.969 379.53	
22	22.00					0.375 86.69	0.500 114.92			0.875 197.60		1.125 251.05	1.375 303.16	1.625 353.94	1.875 403.38	2.125 451.49	
24	24.00				0.250 63.47	0.375 94.71	0.562 140.81	0.375 94.71	0.688 171.45	0.969 238.57	0.500 125.61	1.219 296.86	1.531 367.74	1.812 429.79	2.062 483.57	2.343 542.44	
26	26.00				0.312 85.68	0.500 136.30		0.375 102.72			0.500 136.30						
28	28.00				0.312 92.35	0.500 146.99	0.625 182.90	0.375 110.74			0.500 146.99						
30	30.00	0.250 79.51			0.312 99.02	0.500 157.68	0.625 196.26	0.375 118.76	0.750 234.51		0.500 157.68						
32	32.00				0.312 105.69	0.500 168.37	0.625 209.62	0.375 126.78	0.750 250.55		0.500 168.37						
34	34.00					0.500 179.06		0.375 134.79			0.500 179.06						
36	36.00	0.250 95.54			0.312 119.03	0.500 189.75	0.625 236.35	0.375 142.81	0.750 282.62		0.500 189.75						
42	42.00							0.375 166.86			0.500 221.82						
48	48.00							0.375 190.92			0.500 253.89						
54	54.00							0.375 214.97			0.500 285.96						
60	60.00							0.375 239.02			0.500 318.03						



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