



## Straight-seam Electric Resistance Welding (ERW) Pipe Piling:

# Support for deep foundations

Our ERW steel pipe piles are the strongest and most reliable in the industry. They support bridges and structures for civil, private and government projects worldwide.

Friction and load-bearing geotechnical applications

Mill test reports for quality assurance

Structural and metallurgical engineers on staff

Quick turnaround

Plain or beveled ends

Good weldability

Ranges from 10 to 20 NPS

Rolling cycles of 4-6 weeks

Drop-in rolling capabilities

Meet ARRA's strict standards



### Quality Product, Readily Available

We focus on meeting all your needs, delivering quality product directly to your project site at a price that fits your budget. Our drop-in rollings and manufacturing process allow for efficient turnarounds, even of large volumes. You can place orders and check inventory, rolling schedules and available tons at [atlaspipepiles.com](http://atlaspipepiles.com)

### We're There When You Need Us

Our shipments are quick and cost-effective, so you save time and money. We can run a length of 16 x .500 85 feet long every 90 seconds, or our mills can produce in excess of 1,000/1,200 tons per shift. We can roll non-standard wall thickness to save on the cost of the piles (by having a thinner wall). Contact us anytime to find a stocking partner near you.

### Made and Melted in America

When your domestic project requires products that meet ARRA's strict standards, we'll ship your pipe piles directly from our domestic facility in Chicago, Illinois.

### Green and Sustainable

Our team supports your green initiatives. We use innovative practices and technologies to reduce waste and promote sustainability. Plus, steel's high recycled content and high reclamation rate make it the ideal material for green buildings and structures.

**MADE AND MELTED IN AMERICA**

For more information, call **800.733.5683** or visit [atlaspipepiles.com](http://atlaspipepiles.com)

A red Taylor 400 forklift is shown from a low angle, carrying two large black pipes on its forks. The forklift is positioned on a light-colored floor, and the background is a plain, light color. The Taylor logo and the number 400 are visible on the mast of the forklift. A person is visible in the operator's cab.

# Hands-on support services

## **RFQ and Order Review**

Our sales, quality, scheduling, production and engineering support groups review every RFQ and order, confirming that work proceeds according to your project control plan.

## **Logistics Support**

Our logistics team connects you with the best carriers in the business, ensuring that your product arrives on time, anywhere in North America — via truck, barge or rail. Contract truckers drop trailers at our plant for pre-shipment loading, speeding up the process even more.

## **Short- and Long-term Storage**

We offer local transloading services, providing inside and outside storage for up to 12 months.

## **Testing and Quality Checks**

We provide complete quality assurance for each of the following: receiving, production, post-production, shipping, value-added manufacturing, LEED compliance, third-party inspection and mill test reports (MTRs).

## **Shipping and Invoicing Review**

We understand that every order has unique requirements, and we prepare the paperwork accordingly to prevent bottlenecks. We provide custom stenciling and a packing list at the time of shipping.

## Steel Grade Specifications

### CHICAGO, USA

A500

A252

### Specialty Grades

High-strength low-alloy (HSLA)

Copper-bearing (CU)

### Outer Diameter<sup>1</sup>

A500 — 1.315 to 20'

A252 — 4.500 to 20'

### Gauge<sup>2</sup>

.250 to .625

### Length<sup>3</sup>

21 to 125'

### HARROW, CANADA

A500

A252

CSA G40.21

### Outer Diameter<sup>1</sup>

A500 — 4.500 to 16

A252 — 4.500 to 16

### Gauge<sup>2</sup>

.219 to .688

### Length<sup>3</sup>

20 to 120'

### A500 Gr. C

46,000 min. psi yield

62,000 min. tensile

Elongation in 2" — 21%

### A252 Gr. 2

35,000 min. psi yield

60,000 min. tensile

Elongation in 2" — 25%

### A252 Gr. 3

45,000 min. psi yield

66,000 min. tensile

Elongation in 2" — 20%

### ASTM A500 Gr. C Modified

50,000 min. yield

### ASTM A252 Gr. 3 Modified

50,000 min. yield

### ASTM A500 Gr. C Modified

60,000 min. yield

### ASTM A252 Gr. 3 Modified

60,000 min. yield

### ASTM A500 Gr. C Modified

70,000 min. yield

### Copper-bearing (CU)

.2% copper

### HSLA

High-strength low-alloy

<sup>1</sup> Atlas Pipe Piles does not weigh each individual length of tube. Weight is controlled by utilizing minimum-gauge coil stock. Weight should not vary more than 15% over or 5% under theoretical weight, calculated using its length and weight per unit.

<sup>2</sup> Wall thickness at any point should not be more than 12.5% under the specified nominal wall thickness.

<sup>3</sup> Atlas Pipe Piles will only ship prime full-length piling — no mid-weld splices.

OUTSIDE DIAMETER	PIPE SIZE	PIPE SCHEDULE SIZES								WEIGHT/FOOT INDICATES MILL CAPABILITY															
		10	20	30	40	STD	60	80	XS	16 ga	14 ga	13 ga		12 ga	11 ga	1/8	10 ga	3/16	1/4	5/16	3/8	.400	1/2	5/8	
										0.065	0.083	0.095	0.100	0.109	0.120	0.125	0.134	0.188	0.250	0.313	0.375	0.400	0.500	0.625	
1.245																									
1.250																									
1.315	1.00	<u>.109</u> 1.404			<u>.133</u> 1.679	<u>.133</u> 1.679																			
1.660	1.00	<u>.109</u> 1.404			<u>.140</u> 2.273	<u>.140</u> 2.273																			
1.900	1.50	<u>.109</u> 2.085			<u>.145</u> 2.72	<u>.145</u> 2.72			<u>.179</u> 2.17	<u>.179</u> 2.17															
2.000																									
2.250																									
2.375	2.00	<u>.109</u> 2.638			<u>.154</u> 3.656	<u>.154</u> 3.656																			
2.500																									
2.875	2.50	<u>.120</u> 3.531			<u>.203</u> 5.798	<u>.203</u> 5.798																			
3.000																									
3.500	3.00	<u>.125</u> 4.510			<u>.216</u> 7.58	<u>.216</u> 7.58			<u>.300</u> 10.26	<u>.300</u> 10.26															
4.000	3.50																								
4.500	4.00				<u>.237</u> 10.80	<u>.237</u> 10.80			<u>.337</u> 14.997	<u>.337</u> 14.997															
5.000	4.50				<u>.247</u> 12.55	<u>.247</u> 12.55			<u>.355</u> 17.628	<u>.355</u> 17.628															
5.563	5.00				<u>.258</u> 14.631	<u>.258</u> 14.631			<u>.375</u> 20.797	<u>.375</u> 20.797															
6.625	6.00				<u>.280</u> 18.99	<u>.280</u> 18.99			<u>.432</u> 28.60	<u>.432</u> 28.60															
7.625	7.000				<u>.301</u> 23.57	<u>.301</u> 23.57			<u>.500</u> 38.08	<u>.500</u> 38.08															
8.625	8.00		<u>.250</u> 22.38	<u>.277</u> 24.72	<u>.322</u> 28.58	<u>.322</u> 28.58	<u>.406</u> 35.67	<u>.500</u> 43.428	<u>.500</u> 43.428																
9.625	9.00		<u>.250</u> 22.38	<u>.277</u> 24.72	<u>.322</u> 28.58	<u>.322</u> 28.58	<u>.406</u> 35.67	<u>.500</u> 43.428	<u>.500</u> 43.428																
10.750	10.00		<u>.250</u> 28.06	<u>.307</u> 34.27	<u>.365</u> 40.52	<u>.365</u> 40.52	<u>.500</u> 54.79	<u>.594</u> 64.49	<u>.500</u> 54.786																
11.750	11.00				<u>.375</u> 45.60	<u>.375</u> 45.60		<u>.500</u> 60.132	<u>.500</u> 60.132																
12.00																									
12.750	12.00		<u>.250</u> 33.41	<u>.330</u> 43.81	<u>.406</u> 53.575	<u>.375</u> 49.61	<u>.562</u> 73.22	<u>.500</u> 65.476																	
13.750	13.00																								
14.000	14.00	<u>.250</u> 36.75	<u>.312</u> 45.65	<u>.375</u> 54.62	<u>.438</u> 63.36	<u>.375</u> 54.62	<u>.594</u> 85.13	<u>.500</u> 72.158																	
16.000	16.00	<u>.250</u> 42.09	<u>.312</u> 52.32	<u>.375</u> 62.64	<u>.500</u> 82.848	<u>.375</u> 62.64		<u>.500</u> 82.848																	
18.000	18.00	<u>.250</u> 47.44	<u>.312</u> 58.99	<u>.438</u> 82.23	<u>.562</u> 104.76	<u>.375</u> 70.65		<u>.500</u> 93.54																	
20.000	20.00	<u>.250</u> 52.78	<u>.375</u> 78.67	<u>.500</u> 104.23	<u>.593</u> 123.23	<u>.375</u> 78.67		<u>.500</u> 104.23																	

Rolling of some sizes and gauges are subject to accumulation—please check rolling schedule or contact sales.  
ASTM A500 grades B & C, A252-CSA G40.21 50W or metric 350W available.  
ASTM A252 for .625" gauge only available in 16", 18" and 20".

Atlas ABC Corp (Atlas Tube Chicago)  
 1855 East 122nd Street  
 Chicago, Illinois, USA  
 60633  
 Tel: 800.733.5683  
 Fax: 773.646.6128

Ref. B/L:  
 Date:  
 Customer:



## MILL TEST REPORT

Material: 16.000x500'0"0(1x1)RALC H940 A2523

Material No: R16000500

Made in: USA

Melted in: USA

Sales order:

Heat No:	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
T84793	0.190	0.760	0.008	0.007	0.014	0.045	0.030	0.005	0.003	0.010	0.020	0.001	0.001	0.000	0.000

Bundle No	Yield	Tensile	Eln.2in	Certification	CE: 0.33
M900292866	061040 Psi	074400 Psi	38%	ASTM A252-98 GR3	

Test	Sample	Absorbed	Absorbed	Absorbed	Avg	Shear	Shear	Shear	Avg
Ft_lbs	Temp	Energy1	Energy2	Energy3	FT-LBS	Area1	Area2	Area3	%
		FT-LBS	FT-LBS	FT-LBS		%	%	%	
20	0 F	50	80	30		50	100	50	

# Tested and certified for safety

Quality management takes top priority in our ISO 9001 certified facilities. Our in-house metallurgical engineer provides steel analysis, ultrasonic testing and complete technical assistance. Upon request, you will receive our original mill test report for every bundle, including details on complete heat traceability, chemical analysis, tensile properties and Charpy impact testing, so you know your product is guaranteed to perform.

### ISO 9001:2008 Certified—Chicago

- Chicago plant ISO certified since October 2007
- Chicago plant ISO certified through September 29, 2016

### Atlas Mill Test Reports

- Complete heat traceability
- Chemical analysis
- Tensile properties
- Charpy impact testing

### Carbon and HSLA Coil Material

- BOF-integrated mill
- EAF mini mill

### ISO: 9001:2008 Certified—Harrow

- Harrow plant ISO certified since August 1994
- Harrow plant ISO certified through September 29, 2016

### AWS D1.1 Prequalified Base Materials Various Welding Processes

- SMAW
- SAW
- GMAW
- FCAW

### Metallurgical Engineer on Staff

- Technical assistance
- Product testing
- Steel analysis
- In-house NDT/ultrasonic testing



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### **About Atlas Tube**

Atlas Tube produces a wide range of steel tubular products and is the leading provider of hollow structural sections (HSS) in North America. Other offerings include HSS Design Tools, straight-seam electric resistance weld (ERW) pipe piling and Epox Z Kote<sup>®</sup> powder primed tubing.

For more information, contact Atlas Tube at:

**800.773.5683** or **info@atlastube.com**

Or, visit our website at [atlastube.com](http://atlastube.com)