

# TESTING AND INSPECTION

In adherence to our integrity management process, all our pipes are guaranteed 100% hydrotested in order to validate that these will function under desired conditions once used to different applications.

## DESTRUCTIVE TEST

Destructive test takes necessary measures to check the quality of tensile strength, elongation, hardness, ending, that is being conducted by accredited testing centers like the Metals Industry Research and Development Center, UP Testing Laboratory, Philippine Geoanalytics, and others.

## NON- DESTRUCTIVE TEST

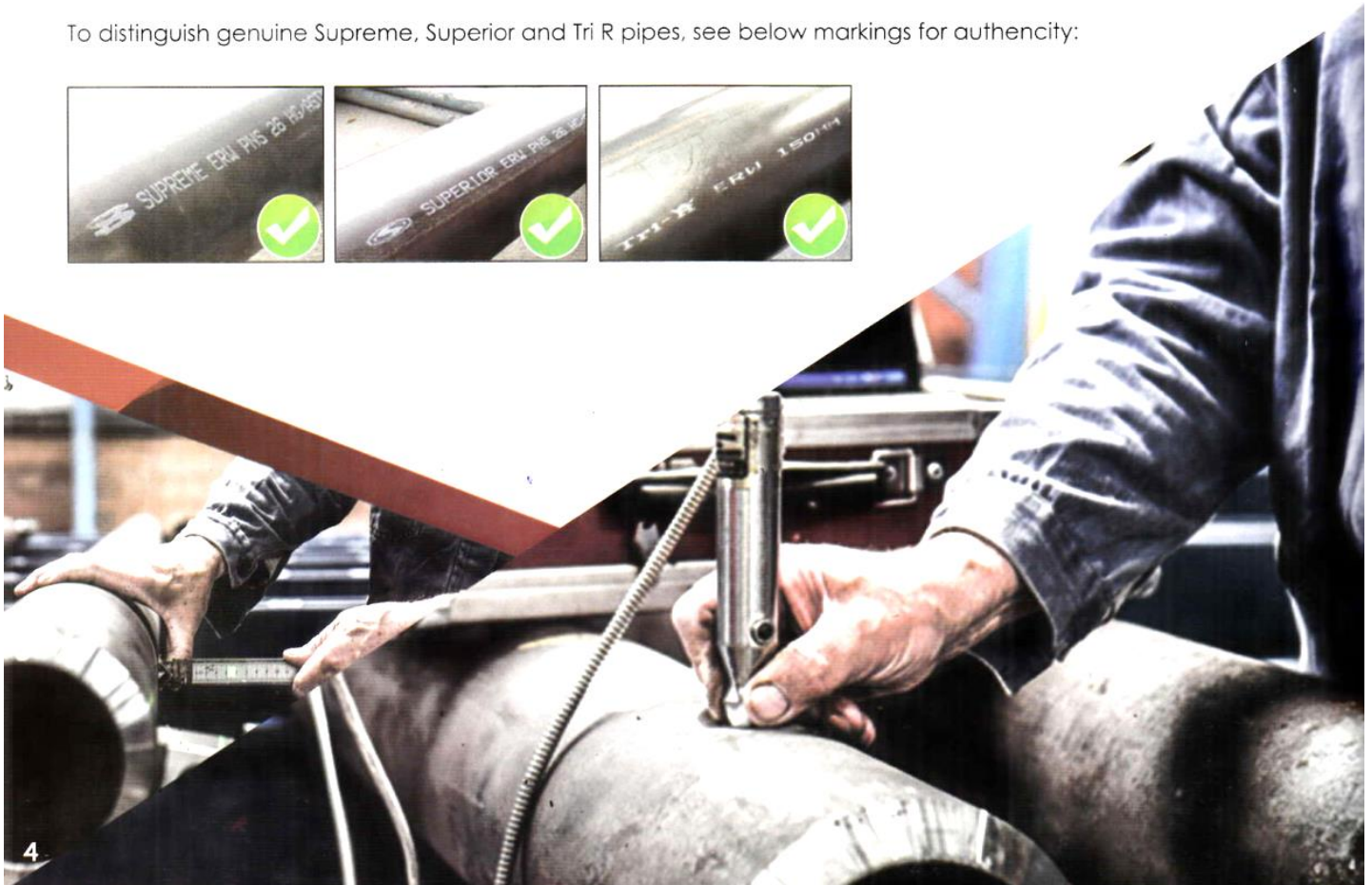
During the line of non-destructive process, the dimensions and physical properties of our pipes are checked including the accuracy of their diameter, wall thickness, length, straightness, and workmanship. At the same time, zinc coating is also tested by an electromagnetic meter.

## HYDROTEST

All pipes guaranteed 100% hydrotested.

# MARKINGS

To distinguish genuine Supreme, Superior and Tri R pipes, see below markings for authenticity:



# PRODUCT STANDARDS



## ASTM A-120 & A-53

American Society for Testing and Materials

## PNS 26

Philippine National Standard

## BSS

British Standard Specification

## Chemical Composition

C	≤ 0.26
Mn	0.29 ≤ X ≤ 1.06
S	≤ 0.035
P	≤ 0.035
Si	≤ 0.10

## UNIT WEIGHT CALCULATION METHOD

### API and ASTM standards

$$W = 10.68 (D-t) t$$

W: Weight per unit length (lb/ft)

t: Wall thickness of pipe (in.)

D: Outside Diameter of pipe

The result of calculation is rounded to a three-figure number

### BS Standards

$$W = 10.68 (D-t) t$$

W: Weight per unit length (lb/ft)

t: Wall thickness of pipe (in.)

D: Outside Diameter of pipe

The result of calculation is rounded to a three-figure number

## Mechanical Properties GR.A

Yield Point	≥ 205 MPa
Tensile Point	≥ 300 MPa
Elongation	≥ 30%

## Mechanical Properties GR.B

Yield Point	≥ 240 MPa
Tensile Point	≥ 415 MPa
Elongation	≥ 30%

## CONVERSION OF UNITS

### API Standards

$$W (\text{lb/ft}) \times 0.453592 = W' (\text{kg/ft})$$

W, W': Weight per unit length

W': To be rounded to two places decimal

### ASTM Standards

$$S (\text{lb/ft}) \times 0.45395237 = W' (\text{kg/ft})$$

W': To be rounded to a three-figure number

### BS Standards

$$W (\text{lb/ft}) \times 0.453952 = W' (\text{kg/ft})$$

W': To be rounded to a three-figure number

### Length

$$L (\text{ft}) \times 0.3048 = L' (\text{m})$$

$$l (\text{ft}) \times 25.4 = l' (\text{mm})$$

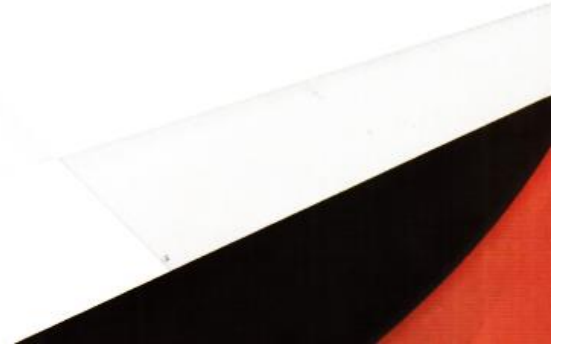
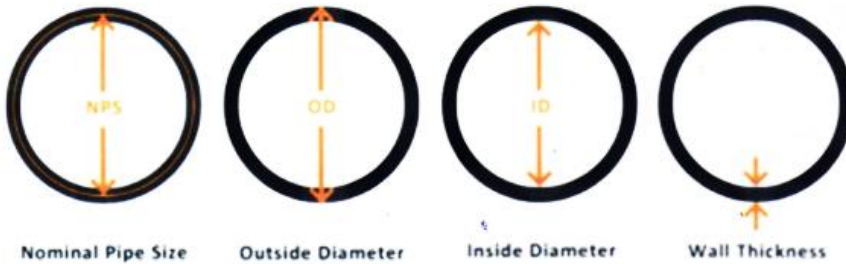
### Dimension Tolerance

$$\text{OD} \pm 0.40 \text{ mm}$$

$$\text{WT} \pm 12.50\%$$

### Zinc-Coating Thickness:

$$\text{Ave. } 76\text{-}85\mu$$



# OUR PRODUCTS

Supreme Steel Pipe Corporation provides only the best products to its clients. We are dedicated to always bring fresh and novel approach in producing our pipes marked by continuous technological innovation and leading-edge product upgrade.



## ERW

Black & Galvanized Iron  
Schedule 40  
ASTM A-53 / PNS 26

Brand :



**SUPERIOR  
PIPE**



## Spiral Pipes

ASTM A139 / AWWA 2200



## Light Gauge

Black & Galvanized Iron  
PNS 26

Brand :

**TRI**  **Pipe**



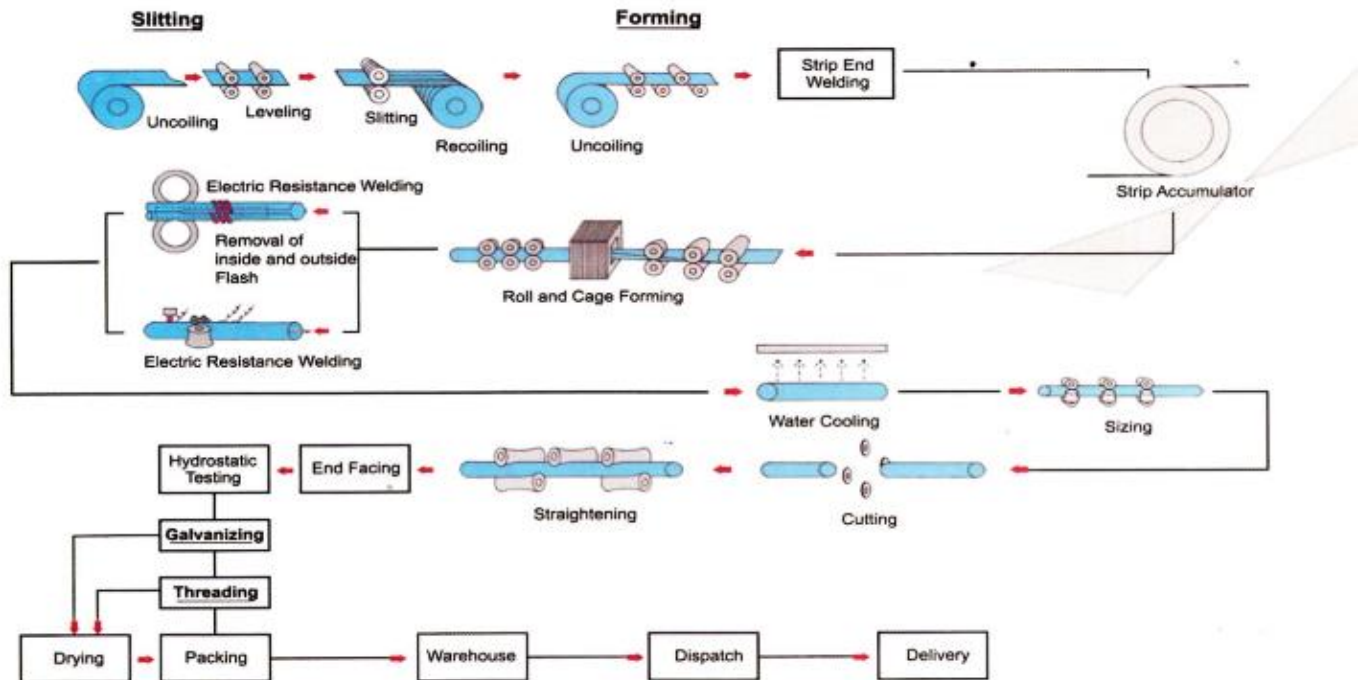
## Red Painted Pipe

Black & Galvanized Iron  
Schedule 40

Brand :  **Dragon Pipe**

# ERW PRODUCTION

AUTOMATIC BLOWING SYSTEM



## PROCESS :

### 1. METAL PREPARATION

The pipes go through the process of pickling, degreasing, and fluxing in preparation for the dripping process.

### 2. PRE-DIPPING PHASE

### 3. DIPPING

The pipes are immersed into a tank of molten zinc.

### 4. AUTO PICK-UP SYSTEM

Also called as the post-dipping procedure.

### 5. AIR WIPE SYSTEM

This process ensures the zinc coating to be evenly spread on each pipes' surface.

### 6. STEAM BLOWING SYSTEM

This system blows out internal zinc excesses.

# ASTM A53

BLACK & GALVANIZED IRON PIPES

Nominal Size	Outside Diameter		Wall Thickness		Class	PLAIN END							
						Sched	Normal Weight			Test Pressure Grade A		Test Pressure Grade B <small>*made to order</small>	
							lb/ft	kg/ft	kg/m	psi	kg/cm <sup>2</sup>	psi	kg/cm <sup>2</sup>
in.	in.	mm	in.	mm									
1/4	0.540	13.7	0.088	2.20	std	40	0.42	0.19	0.63	700	49.20	700	49.20
3/8	0.675	17.1	0.091	2.30	std	40	0.57	0.26	0.84	700	49.20	700	49.20
1/2	0.840	21.3	0.109	2.80	std	40	0.85	0.39	1.27	700	49.20	700	49.20
3/4	1.050	26.7	0.113	2.90	std	40	1.13	0.51	1.69	700	49.20	700	49.20
1	1.315	33.4	0.133	3.40	std	40	1.68	0.76	2.50	700	49.20	700	49.20
1 1/4	1.660	42.2	0.140	3.60	std	40	2.27	1.03	3.39	1200	84.40	1300	91.40
1 1/2	1.900	48.3	0.145	3.70	std	40	2.72	1.23	4.05	1200	84.40	1300	91.40
2	2.375	60.3	0.154	3.90	std	40	3.66	1.66	5.44	2300	161.70	2500	175.80
2 1/2	2.875	73.0	0.203	5.20	std	40	5.80	2.63	8.63	2500	175.80	2500	175.80
3	3.500	88.9	0.216	5.50	std	40	7.58	3.44	11.29	2220	156.10	2510	176.50
4	4.500	114.3	0.237	6.00	std	40	10.80	4.89	16.07	1900	133.60	2210	155.40
5	5.563	141.3	0.258	6.60	std	40	14.63	6.63	21.77	1670	117.40	1950	137.10
6	6.625	168.3	0.280	7.10	std	40	18.99	8.61	28.26	1520	106.90	1780	125.20
8	8.625	219.1	0.322	8.20	std	40	28.58	12.96	42.55	1340	94.20	1570	110.40
10	10.750	273.0	0.365	9.30	std	40	40.52	18.38	60.29	1220	85.80	1430	100.50
12	12.750	323.8	0.406	10.31	std	40	53.57	24.30	79.70	1150	80.90	1340	94.20
14	14.000	355.6	0.438	11.10	std	40	63.50	28.80	94.55	1130	79.50	1310	92.12
16	16.000	406.4	0.500	12.70	std	40	82.85	37.58	123.30	1120	78.80	1310	92.10
18	18.000	457.0	0.375	9.50			70.65	32.05	105.10	750	52.70	880	62.00
			0.500	12.70			93.54	42.43	139.20	1000	70.30	1170	82.00
			0.562	14.27	std	40	104.76	47.52	155.87	1120	78.80	1310	92.10
20	20.000	508.0	0.375	9.50			78.67	35.68	117.02	680	47.80	790	56.00
			0.500	12.70			104.23	47.28	155.12	900	63.2/7	1050	74.00
			0.594	15.09	std	40	123.23	55.90	183.42	1170	82.30	1250	87.90
24	24.000	610.0	0.375	9.50			94.71	42.96	140.82	560	39.40	660	46.00
			0.500	12.70			125.61	56.98	186.94	750	52.70	880	62.00
			0.688	17.48	std	40	171.45	77.80	255.24	1030	72.40	1200	84.40

## LSAW

28	28.000	711.2	0.500	12.70	std	40	146.99		218.76				
30	30.000	762	0.500	12.70	std	40	157.69		234.67				
32	32.000	812	0.500	12.70	std	40	168.38		250.58				

\* We welcome inquiries concerning different ASTM Standards or additional sizes, grades & standards to meet your needs  
\* Also available in Spiral 8" and up.

# BRITISH STANDARDS

Dimension and Weights of Welded Steel Pipe - According to BS 1387 to 1985

Nominal Bore		Outside Diameter				Thickness	Conventional Mass per unit length				
		max	min	max	min		Plain End		Screwed & Socketed tubes		
in.	in.	mm	in.	mm		lb/ft	kg/ft	kg/m	psi	kg/cm <sup>2</sup>	
1/4	8	0.532	0.518	13.6	13.2	0.072	1.8	0.347	0.517	0.35	0.521
3/8	10	0.671	0.656	17.1	16.7	0.072	1.8	0.453	0.674	0.457	0.680
1/2	15	0.841	0.825	21.4	21.0	0.080	2.0	0.640	0.952	0.646	0.961
3/4	20	1.059	1.041	26.9	26.4	0.092	2.35	0.944	1.41	0.954	1.42
1	25	1.328	1.309	33.8	33.2	0.104	2.65	1.35	2.01	1.360	2.03
1-1/4	32	1.670	1.605	42.5	41.9	0.104	2.65	1.73	2.58	1.75	2.61
1-1/2	40	1.903	1.882	48.4	47.8	0.116	2.9	2.19	3.25	2.2	3.29
2	50	2.37	2.347	60.2	59.6	0.116	2.9	2.76	4.11	2.81	4.18
2-1/2	65	2.991	2.960	76.0	75.2	0.128	3.25	3.90	5.8	3.98	5.92
3	80	3.491	3.460	88.7	87.9	0.128	3.25	4.58	6.81	4.69	6.98
4	100	4.481	4.450	113.9	113.0	0.144	3.65	6.64	9.89	6.84	10.2

**LIGHT**

Nominal Bore		Outside Diameter				Thickness	Conventional Mass per unit length				
		max	min	max	min		Plain End		Screwed & Socketed tubes		
in.	in.	mm	in.	mm		lb/ft	kg/ft	kg/m	psi	kg/cm <sup>2</sup>	
1/4	8	0.532	0.518	13.6	13.2	0.072	1.8	0.347	0.517	0.35	0.521
3/8	10	0.671	0.656	17.1	16.7	0.072	1.8	0.453	0.674	0.457	0.680
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3/4	20	1.059	1.041	26.9	26.4	0.092	2.35	0.944	1.41	0.954	1.42
1	25	1.328	1.309	33.8	33.2	0.104	2.65	1.35	2.01	1.360	2.03
1-1/4	32	1.670	1.605	42.5	41.9	0.104	2.65	1.73	2.58	1.75	2.61
1-1/2	40	1.903	1.882	48.4	47.8	0.116	2.9	2.19	3.25	2.2	3.29
2	50	2.37	2.347	60.2	59.6	0.116	2.9	2.76	4.11	2.81	4.18
2-1/2	65	2.991	2.960	76.0	75.2	0.128	3.25	3.90	5.8	3.98	5.92
3	80	3.491	3.460	88.7	87.9	0.128	3.25	4.58	6.81	4.69	6.98
4	100	4.481	4.450	113.9	113.0	0.144	3.65	6.64	9.89	6.84	10.2

**MEDIUM**

Nominal Bore		Outside Diameter				Thickness	Conventional Mass per unit length				
		max	min	max	min		Plain End		Screwed & Socketed tubes		
in.	in.	mm	in.	mm		lb/ft	kg/ft	kg/m	psi	kg/cm <sup>2</sup>	
1/4	8	0.532	0.518	13.6	13.2	0.072	1.8	0.347	0.517	0.35	0.521
3/8	10	0.671	0.656	17.1	16.7	0.072	1.8	0.453	0.674	0.457	0.680
1/2	15	0.841	0.825	21.4	21.0	0.080	2.0	0.640	0.952	0.646	0.961
3/4	20	1.059	1.041	26.9	26.4	0.092	2.35	0.944	1.41	0.954	1.42
1	25	1.328	1.309	33.8	33.2	0.104	2.65	1.35	2.01	1.360	2.03
1-1/4	32	1.670	1.605	42.5	41.9	0.104	2.65	1.73	2.58	1.75	2.61
1-1/2	40	1.903	1.882	48.4	47.8	0.116	2.9	2.19	3.25	2.2	3.29
2	50	2.37	2.347	60.2	59.6	0.116	2.9	2.76	4.11	2.81	4.18
2-1/2	65	2.991	2.960	76.0	75.2	0.128	3.25	3.90	5.8	3.98	5.92
3	80	3.491	3.460	88.7	87.9	0.128	3.25	4.58	6.81	4.69	6.98
4	100	4.481	4.450	113.9	113.0	0.144	3.65	6.64	9.89	6.84	10.2

**HARD**

\* The 6 1/2 in. (265.1 mm) o.d. size (6 in (150 mm) nominal bore) is no longer standard and should be used only where screwing to BS 21 pipe threads is unavoidable

# SUPREME SPIRAL PIPES

## SPECIFICATION

### ASTM A-139

Standard specification for straight seam or spiralweld casing pipe

Outside Diameter: 1/8 – 26 (Nominal)

OD Tolerance: +/- 1%

Wall Tolerance: +/- 12.5%

Mass: +10% -5%

	Minimum Yield	Minimum Tensile
Grade A:	30,000 PSI	48,000 PSI
Grade B:	35,000 PSI	60,000 PSI
Grade C:	40,000 PSI	70,000 PSI
Grade D:	42,000 PSI	60,000 PSI
Grade E:	52,000 PSI	66,000 PSI

### ASTM A-252

Standard specification for straight seam or spiralweld piling pipe

OD Tolerance: +/- 1%

Wall Tolerance: - 12.5%

	Minimum Yield	Minimum Tensile
Grade 1:	30,000 PSI	50,000 PSI
Grade 2:	35,000 PSI	60,000 PSI
Grade 3:	45,000 PSI	66,000 PSI

The steel shall contain no more than 0.05% phosphorous

## AWWA C 200

STEEL GRADE	Tensile strength, min Ksi (Mpa)	Yield strength, min Ksi (Mpa)	Elongation in 2 inches (50 mm)% min
A-139 GRADE A	48 (330)	30 (205)	• ( 5/16 / 7.9mm ) 35 %
A-139 GRADE B	60 (415)	35 (240)	• ( 5/16 / 7.9mm ) (supérieur à 5/16")
A-139 GRADE C	60 (415)	42 (290)	• ( 5/16 / 7.9mm ) 25 %
A-139 GRADE D	60 (415)	46 (315)	• ( 5/16 / 7.9mm ) 23 %
A-139 GRADE E	66 (455)	52 (360)	• ( 5/16 / 7.9mm ) 22 %



