



Tianjin Hengji Steel Co., Ltd. was founded in May 2000. The factory covers an area of approximately 173,000 sqm. The factory is well equipped with 13 ERW pipe production lines, 4 hot dipped galvanized pipe production lines with total annual output of 600,000 tons.

Hengji Steel has strictly implemented ISO9001-2008 Management Certification and actively developed diversified operations and maintained close relationship with numerous large steel strip suppliers, such as HBIS and GuoFeng Iron and Steel. The high management efficiency and good quality of raw materials ensure that Hengji Steel's products are always among the top in the steel industry.

Hengji Steel is specialized in manufacturing ERW Steel Pipe, Hollow Section, Galvanized Hollow Section, Galvanized Steel Pipe, Galvanized Steel Coil, Aluzinc Steel Coil and Prepainted Steel Coil.

Our products are widely used in Automotive Parts, Industrial Equipments, Home Appliances, Roofing Panels, Fencing, and Wall Panels etc.

Hengji Steel is making tremendous contributions to the development of steel industry with high quality products, complete range of product specifications, excellent services and reasonable rates.



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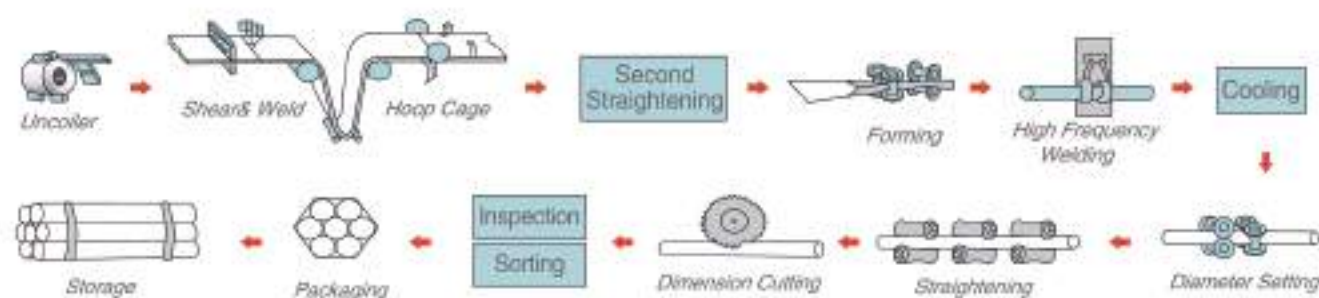


# ERW STEEL PIPE

## Theoretical Weight Calculation

OD(Inch/ mm)	Wall Thickness (mm)																			
inch mm	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.75	3.0	3.5	4.0	4.5	5.0
1/2 21.3																				
3/4 26.9																				
1 33.7																				
1 1/4 42.4																				
1 1/2 48.3																				
2 60.3																				
2 1/2 76.1																				
3 88.9																				
4 114																				
5 140																				
6 168																				
8 219																				

## Production Flow Chart



## Comparison Between Standards

Index	GB/T13793-2008 Steel pipes with a longitudinal electric (resistance) weld	ASTM A53 Black and hot-rolled galvanized welded and seamless steel pipe	BS1387-1985 Specification for screwed and socketed steel tubes and tubulars and for plain end steel tubes suitable for welding or for screwing to BS 21 pipe threads
O.D. Tolerances of Pipe Body	20 < D ≤ 50 D > 60.8	≤ ±0.5 ≤ ±1.0%	21.4 < D ≤ 60.8 D > 60.8
Tolerances of Pipe Ends	20 < D ≤ 50 D > 60.8	≤ ±0.5 ≤ ±1.0%	21.4 < D ≤ 60.8 D > 60.8
Tolerances of Wall Thickness mm	0.5 < t ≤ 1.0 1.0 < t ≤ 5.5 t > 5.5	≤ ±0.1 ≤ ±10% ≤ ±12.5%	Light Medium Heavy
Tolerance of Straightness mm	D < 16 D ≥ 16	≤ ±7.5% use is not effected Less than 1.5 per meter	On single pipe: -8% ~ +10% Average Less than 2.0 per meter

## Table Size

**D = Diameter (mm)**  
**t = Wall Thickness (mm)**  
**L = Length of pipe (m)**

**Theoretical Weight = (D-t) \* t \* 0.0246615 \* L**



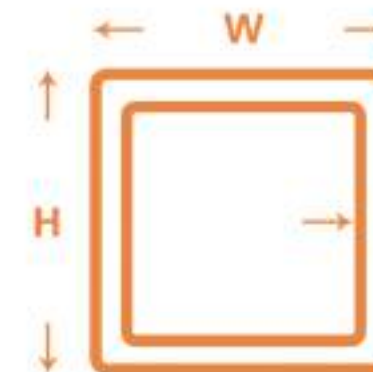


# HOLLOW SECTION

## ▲ Size Table

	specification (mm)	Wall Thickness (mm)									
		1.2	1.3	1.5	1.6~2.0	2.0~2.5	2.5~3.0	3.0~4.5	4.5~6.0	6.0~13	13~15
Square Hollow Section	20 x 20										
	25 x 25										
	30 x 30										
	40 x 40										
	50 x 50										
	60 x 60										
	70 x 70										
	75 x 75										
	80 x 80										
	100 x 100										
	120 x 120										
	130 x 130										
	140 x 140										
	150 x 150										
	160 x 160										
	180 x 180										
	200 x 200										
Rectangular Hollow Section	250 x 250										
	300 x 300										
	350 x 350										
	400 x 400										
	500 x 500										
	20 x 30/40/50										
	25 x 40/50										
	30 x 40/50/60										
	40 x 60/80/90										
	50 x 70/75/100/120/160										
	60 x 80/90/100/120/140										
	75 x 125										
	80 x 100/120/140/160										
	100 x 150/200/250/300/400										
	150 x 200/250/300										
	200 x 300/350/400/450/600										
	250 x 450										
	300 x 350/400/450/500/600										
	400 x 500/600										

## ▲ Calculation Formula



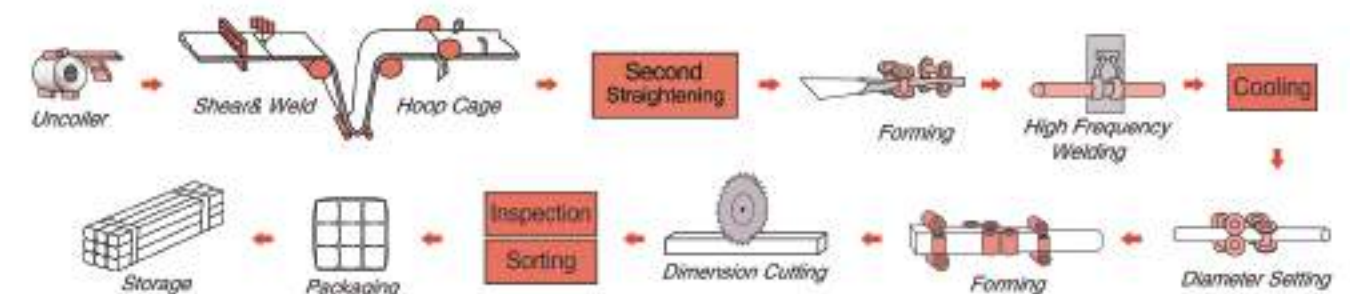
W=Width (mm)

H=Height (mm)

t=Wall Thickness (mm)

$$\text{Theoretical Weight} = [(W+H) \times 2] \div 3.14 - t \times t \times 0.0246615 \times L$$

## ▲ Production Flow Chart





# GALVANIZED HOLLOW SECTION

## ▲ Size Table

	specification (mm)	Wall Thickness (mm)									
		1.2	1.3	1.5	1.6-2.0	2.0-2.5	2.5-3.0	3.0-4.5	4.5-6.0	6.0-13	13-15
Square Hollow Section	20 x 20										
	25 x 25										
	30 x 30										
	40 x 40										
	50 x 50										
	60 x 60										
	70 x 70										
	75 x 75										
	80 x 80										
	100 x 100										
	120 x 120										
	130 x 130										
	140 x 140										
	150 x 150										
	160 x 160										
	180 x 180										
	200 x 200										
	250 x 250										
	300 x 300										
Rectangular Hollow Section	350 x 350										
	400 x 400										
	500 x 500										
	20 x 30/40/50										
	25 x 40/50										
	30 x 40/50/60										
	40 x 50/60/80										
	50 x 70/75/100/120/150										
	60 x 80/90/100/120/140										
	75 x 125										
	80 x 100/120/140/160										
	100 x 150/200/250/300/400										
	150 x 200/250/300										
	200 x 300/350/400/450/600										
	250 x 450										
	300 x 350/400/450/500/600										
	400 x 500/600										

# GALVANIZED STEEL PIPE

## ▲ Production Range

Outer Diameter	Inch	mm	Wall Thickness (mm)																		
			1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.75	3.0	3.5	4.0	4.5	5.0	5.5
1/2	1/2	21.3																			
3/4	3/4	26.9																			
1	1	33.7																			
1 1/4	1 1/4	42.4																			
1 1/2	1 1/2	48.3																			
2	2	60.3																			
2 1/2	2 1/2	76.1																			
3	3	88.9																			
4	4	114																			
5	5	140																			
6	6	168																			
8	8	219																			

## ▲ Comparison Between Standards

	GB/T 12793-2008	ASTM A53	BS 1387-1985
Notes	Steel pipes with a longitudinal electric (resistance) weld	Black and hot-dipped galvanized welded and seamless steel pipe	Specification for screwed and socketed steel tubes and tubulars and for plain end steel tubes suitable for welding or for screwing to BS 21 pipe threads
Hot-dipped Galvanized	Black spot and bubble are not allowed. Partial rough surface and zinc lump is allowed.	Any flaking or cracking of the zinc coating shall not be considered cause for rejection. When galvanized pipe is bent or otherwise fabricated to a degree that causes the zinc coating to stretch or compress beyond the limit of elasticity, some flaking of the coating is acceptable.	Surface of the pipe should be complete and uniformly adherent coating of zinc.
Zinc coating inspection	Could use either copper sulphate or ammoniumchloride test method.	Ammoniumchloride test method can be applied for zinc coating determination.	Could use copper sulphate test for zinc coating inspection.

## ▲ Steel Grade Comparison

Grade and Chemical Composition & Mechanical Properties										
Grade	Class	(Chemical Composition) %					Tensile Strength σ <sub>t</sub>	Yield Strength	Elongation δ	
		C	Mn	Si	S	P	TS MPa	Re MPa	E.L. %	
				(Not More Than)					(Not Less Than)	
Q195		0.05~0.12	0.25~0.50	0.30	0.050	0.045	315	195	22	
Q215	A	0.09~0.15	0.25~0.55	0.30	0.050	0.045	335	215	22	
	0.045									
Q235	A	0.14~0.22	0.30~0.65	0.30	0.050	0.045	375	235	20	
	B	0.12~0.20	0.30~0.70		0.045					
Grade	Class	(Chemical Composition) %					Tensile Strength σ <sub>t</sub>	Yield Strength	Elongation δ	
		C	Mn	Si	S	P	TS MPa	Re MPa	E.L. %	
		(Not More Than)					(Not Less Than)			
ASTM A53	A	0.25	0.95	0.55	0.045	0.050	330	205		
	B	0.30	1.20	0.55	0.045	0.050	415	240		
BS1387-1985		(Chemical Composition) %					Tensile Strength σ <sub>t</sub>	Yield Strength	Elongation δ	
		C	Mn	Si	S	P	TS MPa	Re MPa	E.L. %	
		(Not More Than)					(Not Less Than)			
		0.20	1.20	-	0.045	0.045	320~480	195	20	



# GALVANIZED STEEL COIL



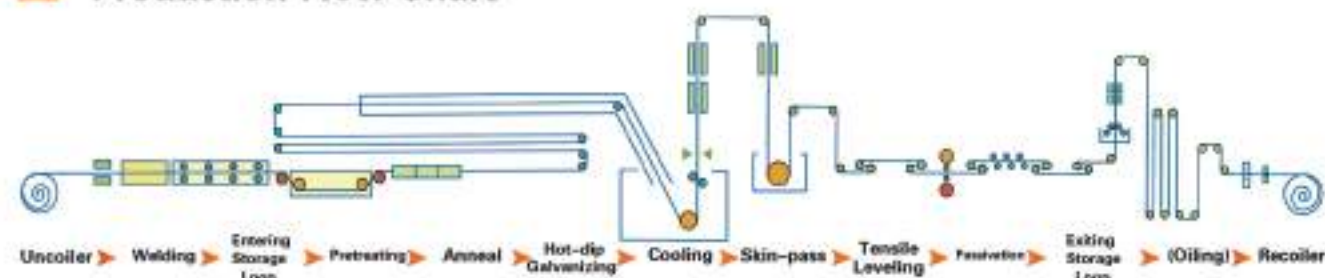
## Specification

Specifications	Thickness	0.1mm - 2.5mm
	Width	500mm -1250mm
	Inner diameter	508mm / 610mm
	Coil weight	2 - 6 MT
	Spangle Pattern	Zero Spangle Minimum Spangle Regular Spangle Large Spangle
	Mass of Coating	40g/m <sup>2</sup> - 275g/m <sup>2</sup>
	Minimum Order Quantity	25 MT per Size
	Packing	Standard Export Package
	Delivery Time	20 Days
Production	GB/T 2518	
	AS 1397	
	EN 10326/10327	
	ASTM A653M	
	JIS G3302 (SGCC/SGCH)	
	G550 available	

## Steel Grade Comparison

EQUIVALENT STEEL GRADES UNDER DIFFERENT STANDARDS				
GB/T 14978	AS 1397	EN 10326/10327	ASTM A792M	JIS G3321
DX51D+AZ	—	DX51D+AZ	CS type B/C	SGLCC
DX52D+AZ	G2+AZ	DX52D+AZ	FS	SGLCD
DX53D+AZ	G3+AZ	DX53D+AZ	DS	SGLCD
DX54D+AZ	—	DX54D+AZ	EDDS	—
S250GD+AZ	G250+AZ	S250GD+AZ	Grade 255	SGH340
S280GD+AZ	—	S280GD+AZ	Grade 275	—
S300GD+AZ	G300+AZ	—	—	SGLC400
S320GD+AZ	—	S320GD+AZ	—	SGLC440
S350GD+AZ	G350+AZ	S350GD+AZ	Grade 340 Class 1	SGLC490
S550GD+AZ	G550+AZ	S550GD+AZ	Grade 550 Class 1	SGLC570

## Production Flow Chart



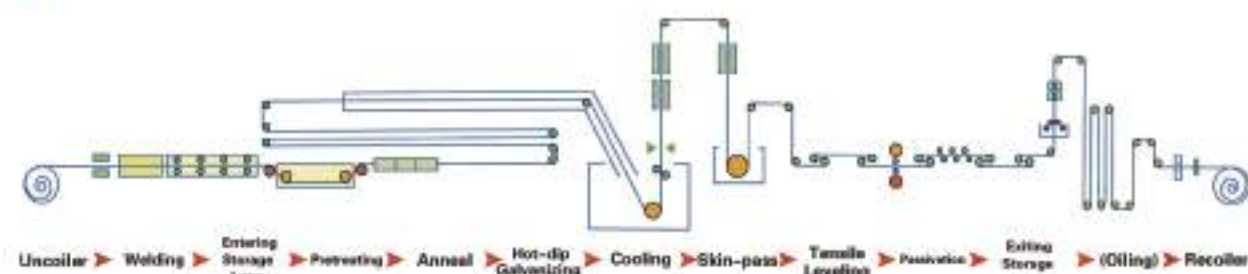


# ALU-ZINC STEEL COIL

## ▲ Specification

Specifications	Thickness	0.12mm - 1.2mm
	Width	500mm -1250mm
	Inner diameter	508mm / 610mm
	Coil weight	2 - 6 MT
	Spangle Pattern	Minimum Spangles
	Mass of Coating	30g/m2 - 150g/m2
	Surface Treatment	Anti Fingerprint Available
	Minimum Order Quantity	25 MT per Size
	Packing	Standard Export Packing
Production Standard	Delivery Time	20 Days
	GB/T 14978	
	AS 1397	
	EN 10326/10327	
	ASTM A792M	
	JIS G3321	
	G550 available	

## ▲ Production Flow Chart



## ▲ Characteristics



• Corrosion-resistance: The corrosion-resistance of Alu-Zinc sheet could come up to 6 times effective compare to galvanized sheet.



• Heat-resistance: Alu-Zinc sheet could bear over 300 degree of heat, which acting very similar to aluminum sheet in such test, almost equal to characteristics of aluminum material.



• Heat-reflectivity: The heat reflectivity of Alu-Zinc sheet is 2 times effective compared to galvanized sheet.

• Cost: Alu-Zinc sheet is lighter than galvanized sheet with same thickness of coating due to the density of Aluminum is less than Zinc, which gives the advantages in many aspects.

• Capability of paint applying: The surface of Alu-Zinc sheet is smoother compare to galvanized sheet, so that the adhesion of Alu-zinc sheet enhanced during the procedure of color coating.



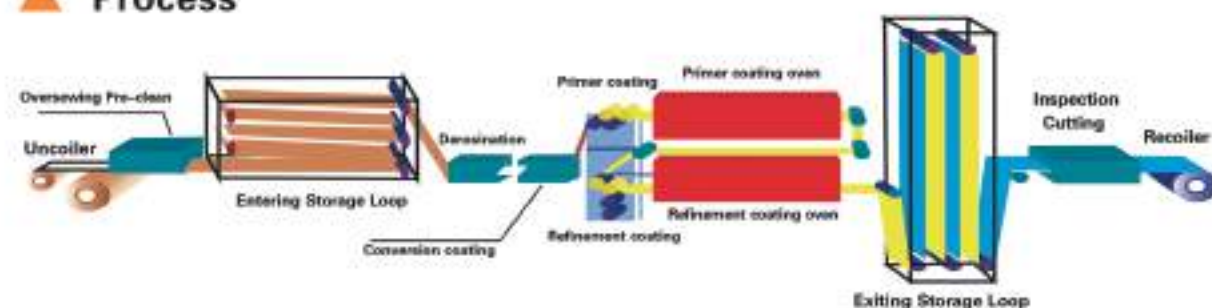


# PREPAINTED STEEL COIL

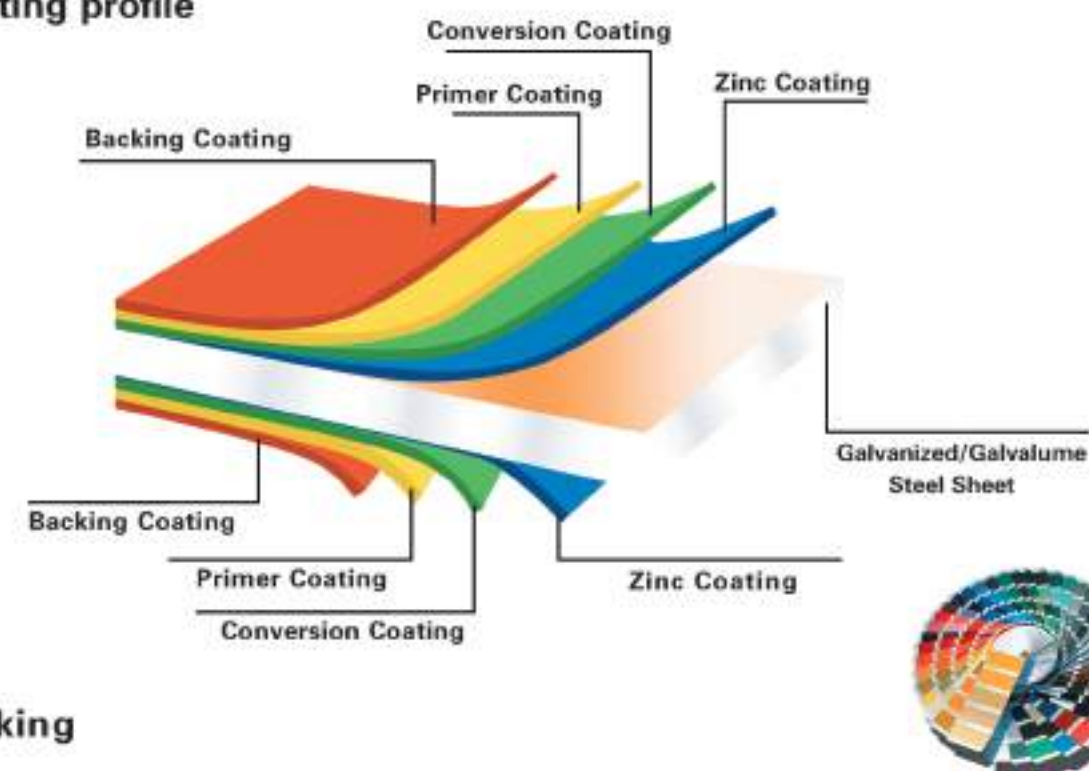
## ▲ Specification

Specifications	Base Plate	Cold Rolled Full Hard Galvanized Steel Coil Galvalume Steel Coil
	Thickness	0.1mm - 1.2mm
	Width	500mm - 1250mm
	Inner diameter	508/610
	Coil weight	2 - 6 MT
	Color	RAL Classic Color Customer Provided Sample
	Thickness of Coating	5+10~20 $\mu\text{m}$ / 7 $\mu\text{m}$
	Film Cover	Available
	Minimum Order Quantity	25 MT per Color per Size
	Packing	Standard Export Packing
Production Standard	GB/T 12754	
	BS EN 10169	
	ASTM A792M	
	JIS G3312 / G3322 (CGCC)	

## ▲ Process



## ▲ Coating profile



## ▲ Packing

