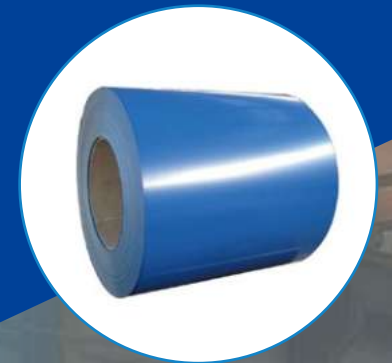
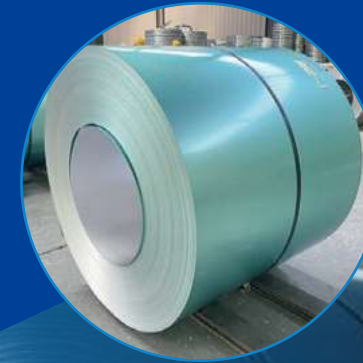


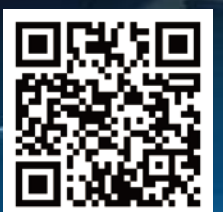


# Quality First Service Foremost



**QINGDAO WITOP STEEL CO.,LTD**  
**青岛瑞特普钢材有限公司**

Address: 707, Building 3,(Xinlian Tiandi) No. 176 Jufeng Road, Licang District, Qingdao City, Shandong, CHINA  
Mobile: 0086 18669830270  
WhatsApp: 0086 18669830270  
Email: sales@witopsteel.com  
www.witopsteel.com



**QINGDAO WITOP STEEL CO.,LTD**





## A Leading Integrated Enterprise Of Researching And Manufacturing In China

Qingdao Witop Steel Co. Ltd with over 20 years experience, is a leading steel manufacturer in northern part of China. We are specializing in Cold Rolled, Galvanized, Galvalume and Prepainted Steel materials production and sales, can process further-production for these products, for example, galvanized/alu-zinc roofing sheet, PPGI/PPGL color coated roofing sheet, slitting steel coil to strip and so on. Our factory can produce steel products according to the drawings or samples from the customers.

We have five advanced steel production lines and three modern warehouses, with covering an area of 100000 square meters and more than 300 staff. We have now formed an annual production scale of 80,000 tons of galvanized steel, 80,000 tons of aluminum-zinc steel, 150,000 tons of color coated steel, and 200,000 tons of roof sheet of GI/GL/PPGI/PPGL.

Since the producing began, our company insisted in arriving at the advancement in the technology field by our continuing effort. At present, our company has gained lots of trust and praise from all over the world with qualified products and good service. We have built a reliable and long-term cooperative relationship with nearly 180 customers from 100 countries in Southeast Asia, Middle Asia,

Africa, Middle East, South America and East Europe, such as Thailand, Malaysia, Indonesia, Tajikistan, Kazakhstan, Uzbekistan, South Africa, Kenya, Tanzania, Congo, Ethiopia, Djibouti, Nigeria, Ghana, Saudi Arabia, UAE, Iraq, Qatar, Bahrain, Colombia, Peru, Chile, Brazil, Argentina, etc.

Qingdao Witop Steel Co. Ltd will remain honest, realistic and pragmatic as always to safeguard, strengthen and carry forward our Brand. We are to create value with our customers, improving competitiveness and productivity together. We also will provide continuous high-quality commodities and top-class services to domestic and overseas clients. We sincerely wish to develop long-term win-win cooperation with you.



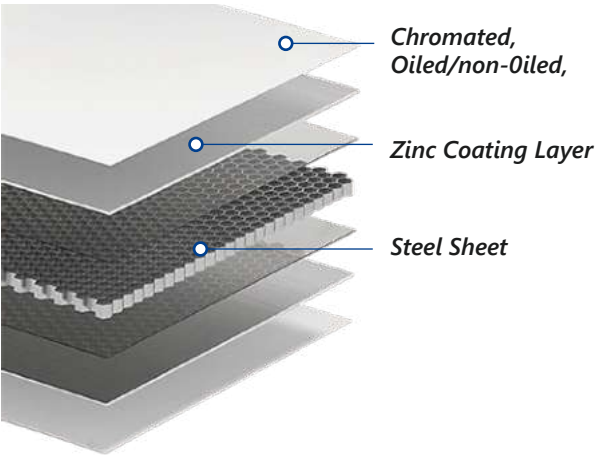


# Hot Dipped Galvanized Steel Coil (GI Steel Coil)

Hot dipped galvanized steel coil are mainly used in build construction, home appliances, containers, transportation, automobiles and metallurgical industries. For example, Corrugated Roofing Sheet, Steel Floor Deck Sheet, Ventilation Ducts, U/C Channel, Round/Rectangular/Square pipe, Protection Fence of Highways, Metal Expanded Mesh and so on.

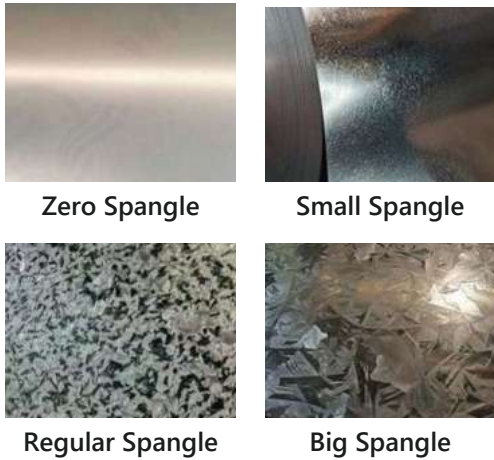
Hot dipped galvanized steel coil are processed by continuous hot-dip galvanizing from cold-rolled steel coil. Zinc coating on both sides can effectively prevent corrosion and rust, and increase the service life of steel plate.

The main characteristics of hot dipped galvanized steel coil have good processing performance, strong corrosion resistance, high heat resistance, perfect mechanical properties and pretty surface quality, which are beneficial to further processing, economical and practical in infrastructure and construction.



## Galvanized Coating Layer

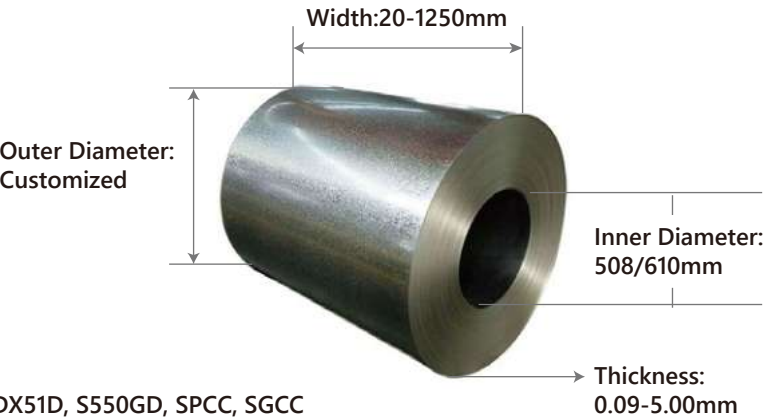
- \* Chromated, Oiled/non-Oiled,
- \* Zinc Coating Layer
- \* Steel Sheet



# Hot Dipped Galvanized Steel Coil (GI Steel Coil)



## Galvanized Steel Coil/Strips



- ✓ Custom Specifications
- ✓ Customizable Surface Optional



## Product Parameters

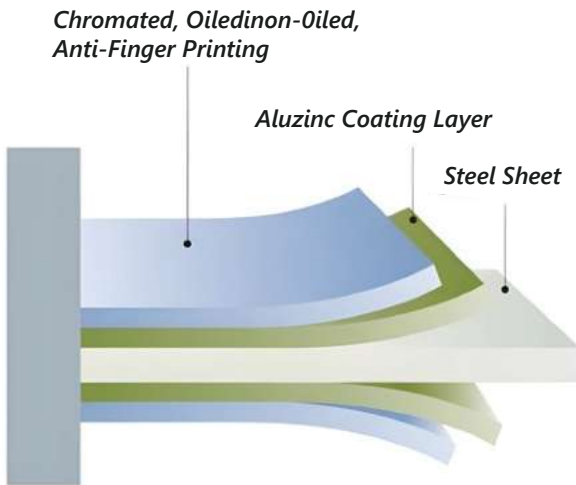
Standard	JIS G3302, EN10147, ASTM A653M	Coil Weight	3-5MT/Coil or Customized
Grade	SGCC, SGCH	Coil Inner Diameter	508MM or 610MM
	DX51D, DX52D, DX53D, DX54D	Package	Standard Seaworthy Exporting Packing
Zinc Coating	S280GD, S320GD, S350GD, S400GD, S500GD, S550GD	MOQ	25MT
	30-275G/M2	Capacity	7000MT/Month
Spangle Model	Zero Spangle, Small Spangle, Regular Spangle, Big Spangle	Transport Type	Vessel Container, Vessel Bulk, Railway Container, Railway Wagon
Surface Treatment	Chromated, Oiled, No-oiled	Loading Port	Tianjin, Qingdao, Ningbo, Shanghai and other China's port
Hardness	Softy, Semi Hard, Full Hard, G550	Delivery Time	15-25 Days after Receiving the Deposit/Original LC
Thickness	0.09-5.00MM	Terms of Trade	EXW, FOB, CFR, CIF
Width	20-1250MM	Terms of Payment	T/T and Irrevocable LC at Sight



# Hot Dipped Galvalume /Aluzinc Steel Coil (GL Coil)

Hot dipped galvalume/aluzinc steel coil have better corrosion resistance, heat resistance, and heat reflection properties, compared to traditional galvanized steel products. GL galvalume steel coil are widely used in industries such as home appliances, construction, structures, and electrical appliances.

Hot-dip aluminum-zinc-silicon steel, also called alu-zinc, galvalume (GL for short), is a steel sheet made of aluminum(Al 55%), zinc (Zn 43.5%), and silicon (Si 1.5%) alloy on both sides. The surface of galvalume coil has small and uniform aluminum-zinc spangle, bright color, and high surface hardness. Hot dipped galvalume steel coil can be coated with various colors of anti-finger print (AFP) semi permeable films.

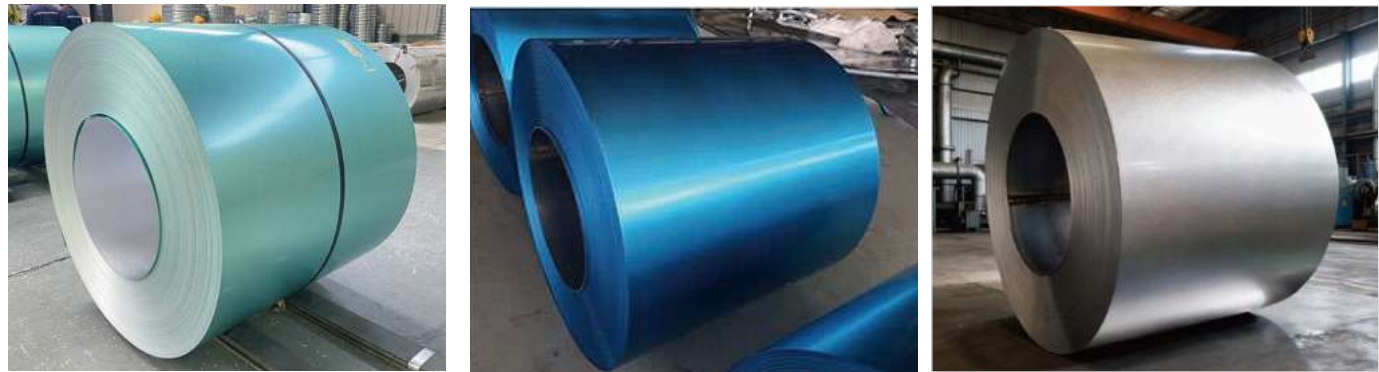


## Aluzinc Coating Layer

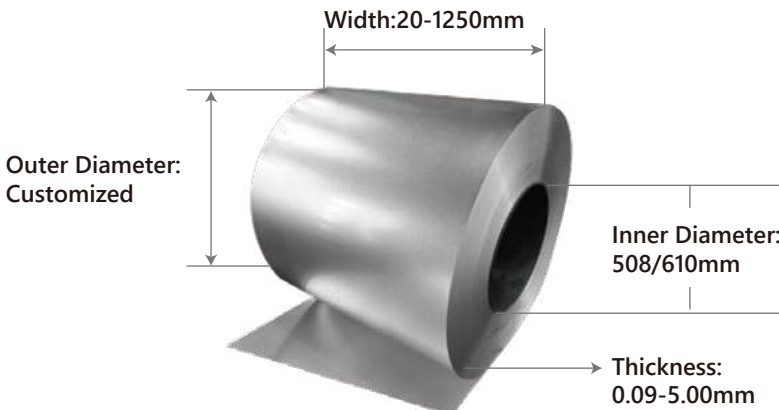
- \* Chromated, Oiled/non-Oiled, Anti-Finger Printing
- \* Aluzinc Coating Layer
- \* Steel Sheet



# Hot Dipped Galvalume /Aluzinc Steel Coil (GL Coil)

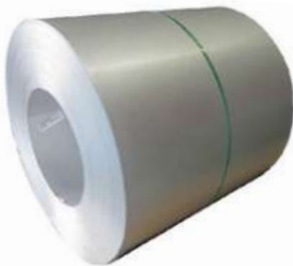


## Galvalume Steel Coil/Strips



DX51D, S550GD, SPCC, SGLCC

- ✓ Custom Specifications
- ✓ Customizable Surface Optional



## Product Parameters

Standard	JIS G3321, EN 10215, ASTM 792	Coil Weight	3-5MT/Coil or Customized
Grade	SGLCC, SGLCH	Coil Inner Diameter	508MM or 610MM
	DX51D+AZ, DX52D+AZ, DX53D+AZ	Package	Standard Seaworthy Exporting Packing
	G280 G320 G350 G450 G500	MOQ	25MT
Alu-zinc Composition	55% Aluminum, 43.5% Zinc, 1.5% Silicon	Capacity	7000MT/Month
Alu-zinc Coating	40-150G/M2	Transport Type	Vessel Container, Vessel Bulk, Railway Container, Railway Wagon
Surface Treatment	Chromated Passivation, Oiled, No-oiled, Anti-Finger Print	Loading Port	Tianjin, Qingdao, Ningbo, Shanghai and other port
Hardness	Softy, Semi Hard, Full Hard, G550	Delivery Time	15-25 Days After Receiving the Deposit/Original LC
Thickness	0.09-5.00mm	Terms of Trade	EXW, FOB, CFR, CIF
Width	20-1250mm	Terms of Payment	TT and Irrevocable LC at Sight

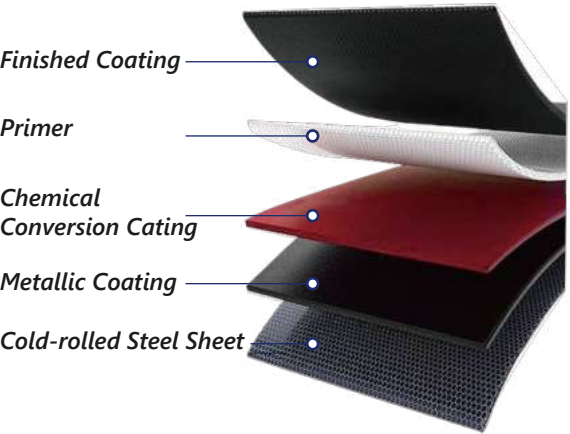


# PPGI / PPGL Color Coated Steel Coil

PPGI and PPGL color coated steel coil are used in construction industry, home appliance industry, electrical appliance industry and furniture industry. For example, color wave-shaped roofing sheet,color T-shaped roofing sheet, glazed tile, sandwich panel, fence, rolling shutter door, container wall and so on.

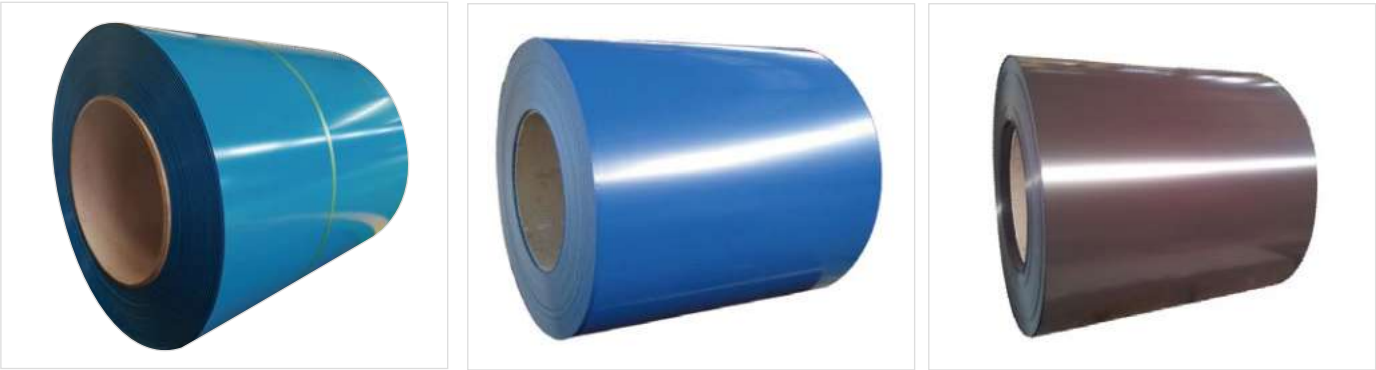
PPGI and PPGL color coated steel coil have painting film to cover its surface and protect the steel from rusting, in addition to zinc coating film protection. The service life of prepainted steel coil is about 2 times longer than that of the galvanized steel coil

## Sketch Map of Sectional Structure of Prepainted Steel Sheet

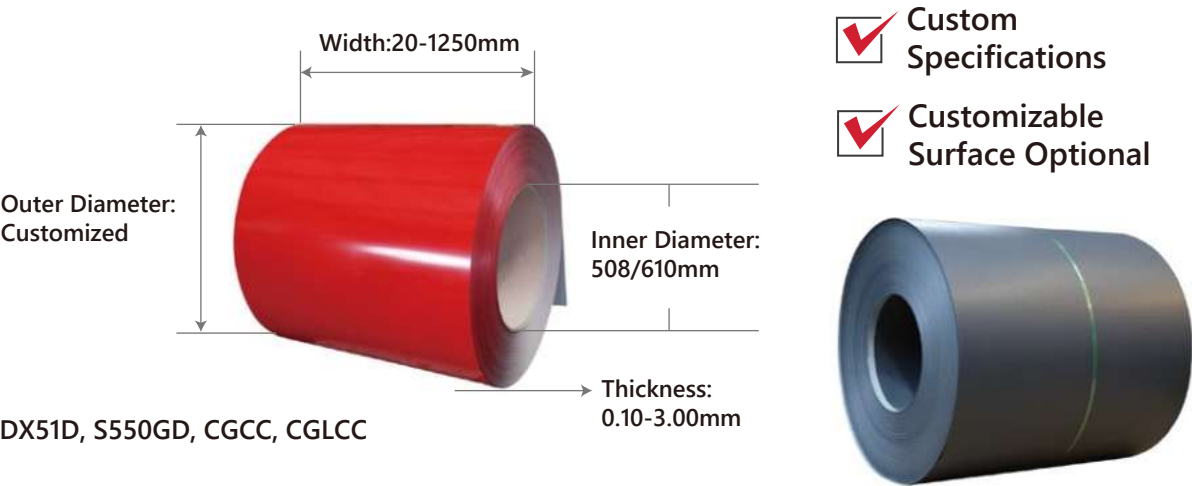


RAL Color

# Hot Dipped Galvanized Steel Coil (PPGI) Hot Dipped Galvalume Steel Coil (PPGL)



## PPGI PPGL Steel Coil/Strip



## Product Parameters

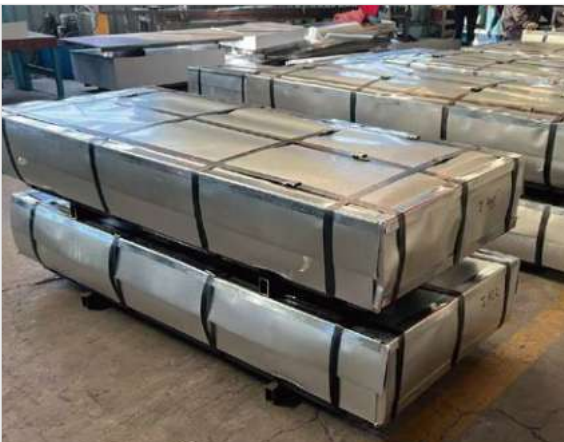
Standard	JIS G 3312, EN 10169, ASTM A755	Zinc Coating	40-275G/M2
Grade	CGCC/CGCH, DX51D/DX52D, DX53D	Hardness	Softy, Semi Hard, Full Hard, G550
Color	Client's Sample Color or Any Ral Color	Coil Weight	3-5MT/Coil or Customized
Painting Brand	Nippon, Akzo-Nobel, KCC	Coil Inner Diameter	508MM or 610MM
Top Side Painting Film	Primer 5-10µm Top Coating 10-25µm	Package	Standard Seaworthy Exporting Packing
Back Side Painting Film	Primer 5-10µm Top Coating 10-25µm	MOQ	25MT
Surface Treatment	PVC Film, Wrinkle/Matt, Printed Surface	Capacity	12500MT/Month
Thickness	0.10-3.00mm	Transport Type	Vessel Container, Vessel Bulk , Railway Container,Railway Wagon
Width	20-1250mm	Loading Port	Tianjin, Qingdao, Ningbo, Shanghai



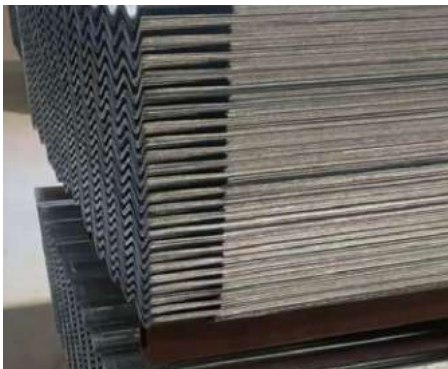
# Hot Dipped Galvanized Corrugated Roofing Sheet

Hot dipped galvanized corrugated roofing sheet are suitable for industrial and civil buildings, warehouses, special buildings, roofs, walls, interior and exterior wall decorations of large-span steel structure houses.

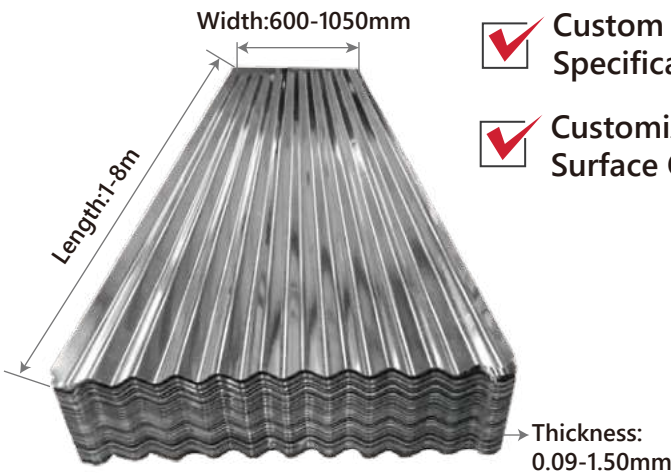
Hot dipped galvanized corrugated roofing sheet is made of galvanized steel sheet that is rolled and cold-formed into various wave and T shapes. Galvanized corrugated roofing sheet have the characteristics of light weight, high strength, convenient and quick construction, earthquake resistance, fire resistance, rain resistance and so on.



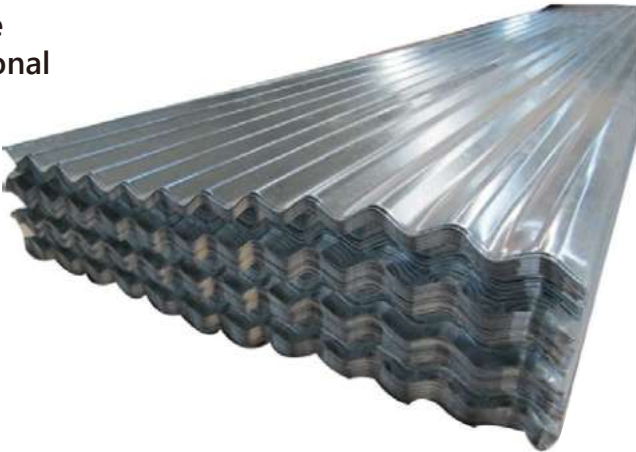
# Hot Dipped Galvanized Corrugated Roofing Sheet



## Roofing Steel Sheet



- ✓ Custom Specifications
- ✓ Customizable Surface Optional



## Product Parameters

Standard	JIS G3302, EN10147, ASTM A653M	Width after Corrugated (AC)	665MM, 680MM, 800MM, 840MM, 850MM, 870MM, 875MM, 900MM, 1100MM
Grade	SGCC, SGCH	Bundle Weight	3-4MT/Bundle or Customized
	DX51D, DX52D	Package	Standard Seaworthy Exporting Package
Type	S280GD S320GD S350GD	MOQ	25MT
	Wave-Shape and Trapezoid-Shape	Capacity	5000MT/Month
Zinc Coating	30-275G/M2	Transport Type	Vessel Container, Vessel Bulk, Railway Container, Railway Wagon
Spangle Model	Zero Spangle, Small Spangle, Regular Spangle, Big Spangle	Loading Port	Tianjin, Qingdao, Ningbo, Shanghai
Thickness	0.09-1.50MM	Delivery Time	15-25 Days After Receiving the Deposit/Original LC
Width before Corrugated (BC)	750MM, 762MM, 900MM, 914MM, 1000MM, 1200MM	Terms of Trade	EXW, FOB, CFR, CIF



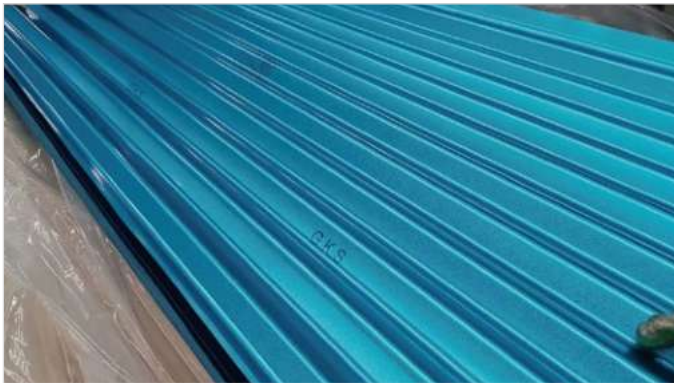
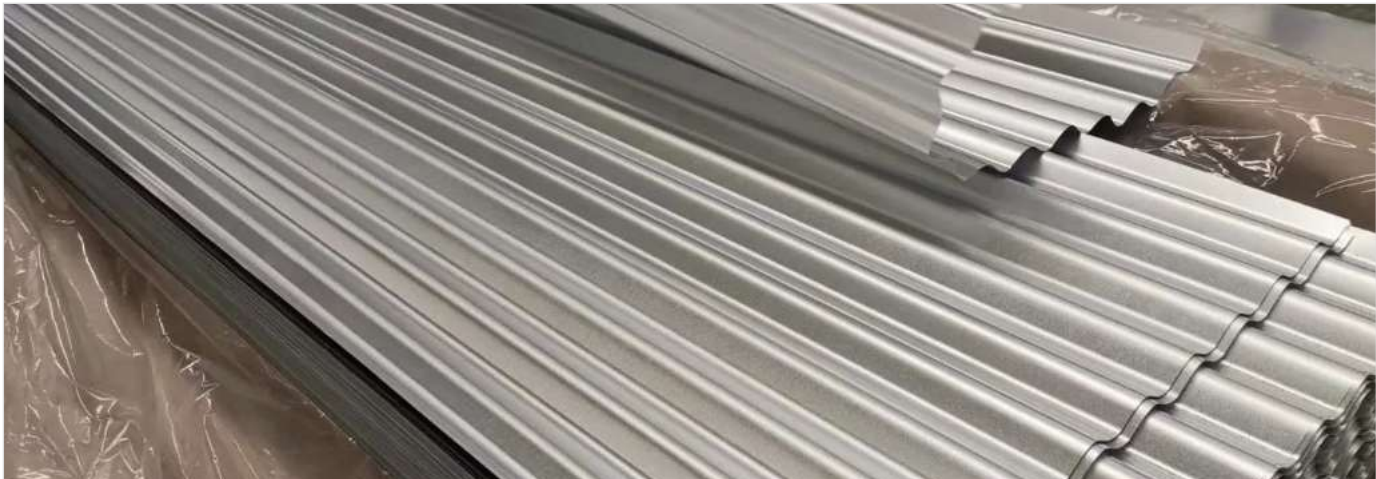
# Hot Dipped Galvalume Corrugated Roofing Sheet

Hot dipped galvalume corrugated Steel roofing sheet are suitable for industrial and civil buildings, warehouses, special buildings, roofs, walls, interior and exterior wall decorations of large-span steel structure houses.

Hot dipped GL galvalume corrugated roofing sheet is made of galvalume steel sheet that is rolled and cold-formed into wave-shape and T shape. Galvalume corrugated roofing sheet have the characteristics of light weight, high strength, convenient and quick construction, earthquake resistance, fire resistance, rain resistance and so on.



# Hot Dipped Galvalume Corrugated Roofing Sheet



## Product Parameters

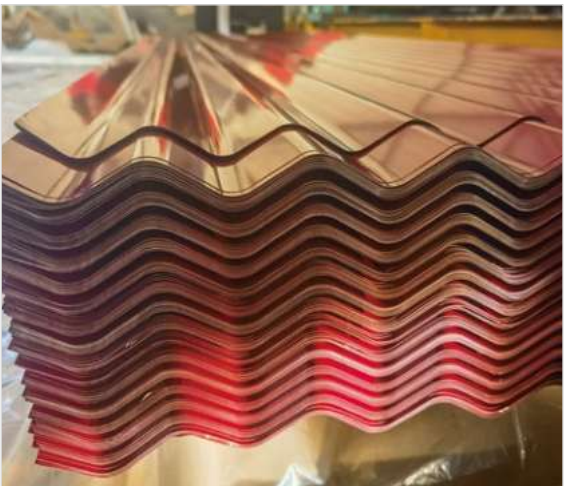
Standard	JIS G3321, EN 10215, ASTM 792	Width after Corrugated (AC)	665MM, 680MM, 800MM, 836MM, 850MM, 870MM, 875MM, 900MM, 1100MM
Grade	SGLCC, SGLCH	Bundle Weight	3-4MT/Bundle or Customized
	DX51D+AZ,DX52D+AZ	Package	Standard Seaworthy Exporting Packing
	G300 G500	MOQ	25MT
Type	Wave-Shape and Trapezoid-Shape	Capacity	5000MT/Month
Alu-zinc Composition	55% Aluminum, 43.5% Zinc,1.5% Silicon	Transport Type	Vessel Container, Vessel Bulk ,Railway Container, Railway Wagon
Alu-zinc Coating	40-150G/M2	Loading Port	Tianjin, Qingdao, Ningbo, Shanghai and other port
Surface Treatment	No Anti-Finger Print, Anti-Finger Print	Delivery Time	20-25 Days after receiving the deposit/Origianl LC
Thickness	0.09-1.50MM	Terms of Trade	EXW,FOB, CFR, CIF
Width before Corrugated (BC)	762MM, 900MM, 914MM, 1000MM, 1200MM		



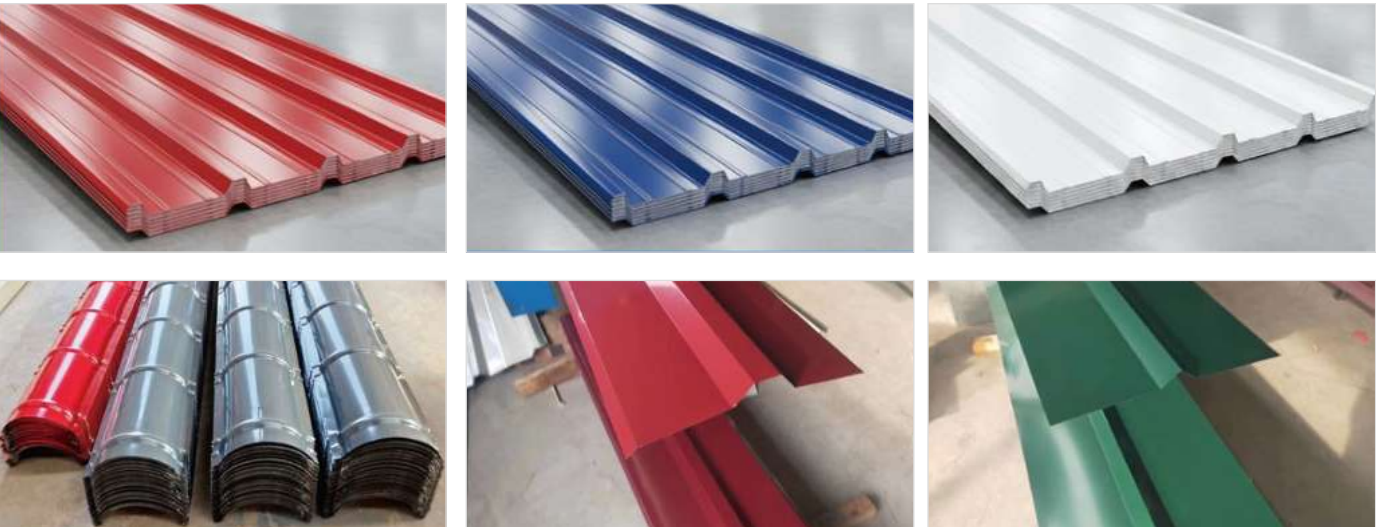
# Color Coated Steel Roofing Sheet

Color coated steel roofing sheet have been widely applied in industrial, civil buildings, warehouses, factories, and large-span steel structure houses, suitable for roofs, walls, and interior and exterior wall decoration.

Color coated steel roofing sheet have the advantages of light weight, high strength, various colors, convenient and fast construction, earthquake resistance, fire prevention, rain resistance, long life, maintenance-free and so on.



# Color Coated Steel Roofing Sheet



## Product Parameters

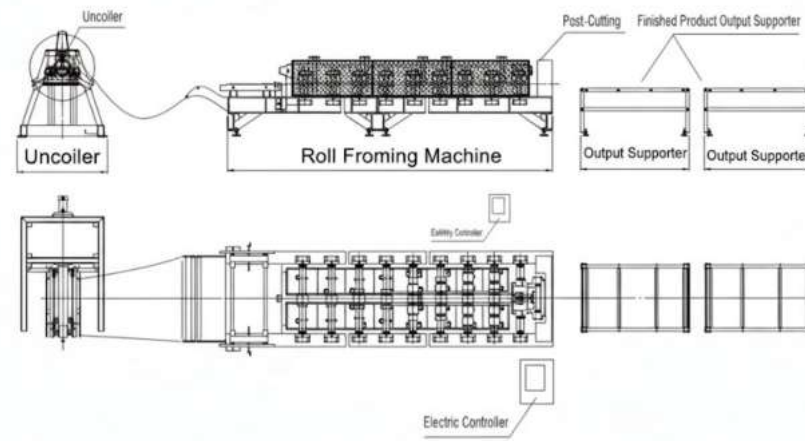
Standard	JIS G 3312, EN 10169, ASTM A755	Back Side Painting Film	Primer 5-10μm Top Coating 10-25μm
Grade	CGCC/CGCH,DX51D/DX52D	Surface Treatment	PVC Film, Wrinkle/Matte, Printed Surface
Type	Wave-Shape, Trapezoid-Shape, Glazed Tile, Ridge Tiles	Thickness	0.10-2.00MM
Roof Models	YX 10-125-875, YX 10-130-910 (1040), YX 12-110-880 (V-110), YX 14-63.5-825, YX 14-102-918 (1122), YX 15-225-900, YX 18-76.2-836, YX 18-77-315, YX 25-205-820, YX 25-205-1025, YX 25-210-840 (1050), YX 25-210-840, YX 25-248-992, 28-207-828, YX 35-125-750 (V-125), YX 35-247.5-990, YX 51-240-720, YX 76-344-688.	Coating	Zinc: 40-275G/M2; Alu-zinc: 40-150G/M2;
		Hardness	Softy, Semi Hard, Full Hard, G550
		Bundle Weight	2-3MT/Bundle or Customized
		Package	Standard Seaworthy Exporting Packing
Color	Any RAL or Client's Sample Color	MOQ	25MT
Painting Brand	Nippon, AkzoNobel, KCC	Capacity	7000MT/Month
Top Side Painting Film	Primer 5-10μm Top Coating 10-25μm	Transport Type	Vessel Container, Vessel Bulk ,Railway Container, Railway Wagon



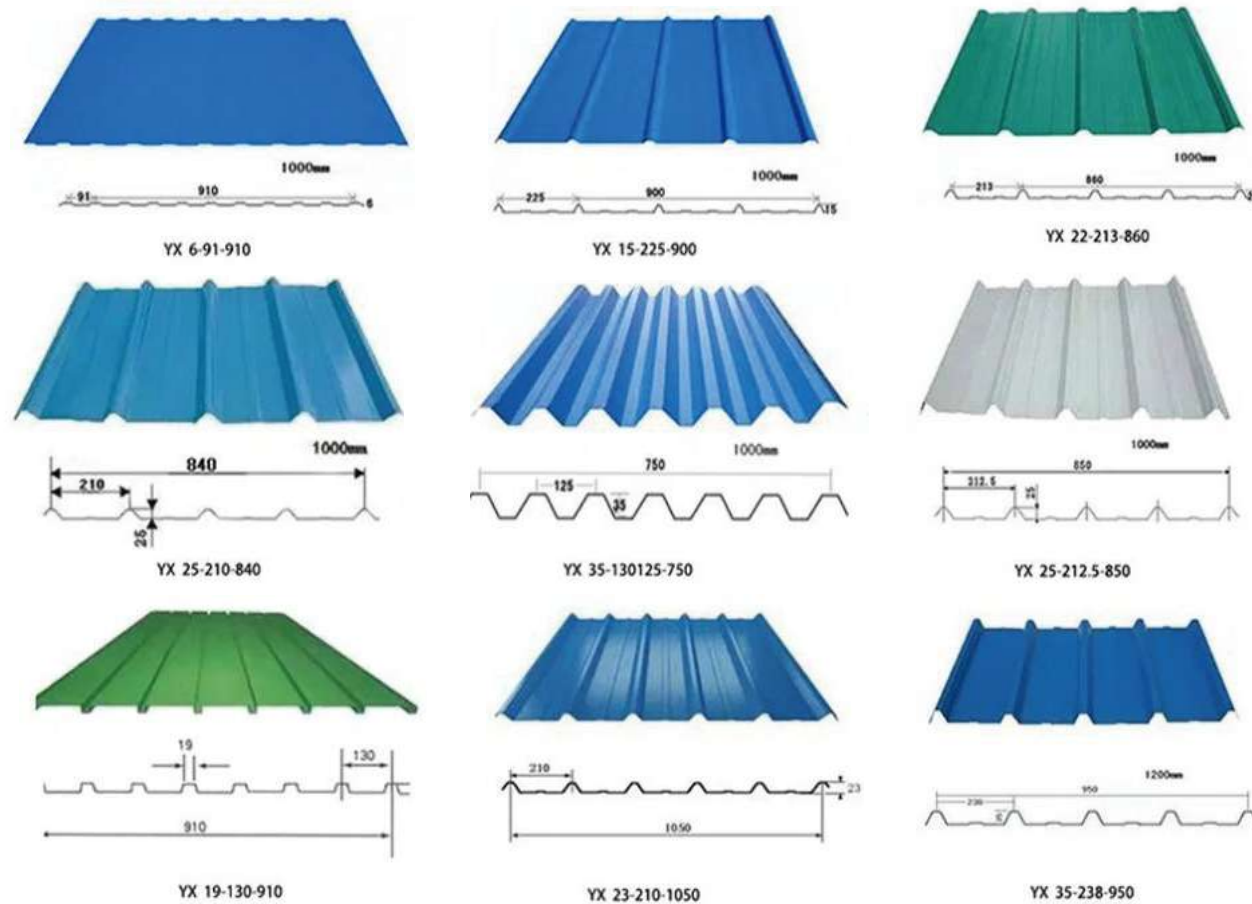
## ROOFING TYPE

### Beyond Steel Coils:

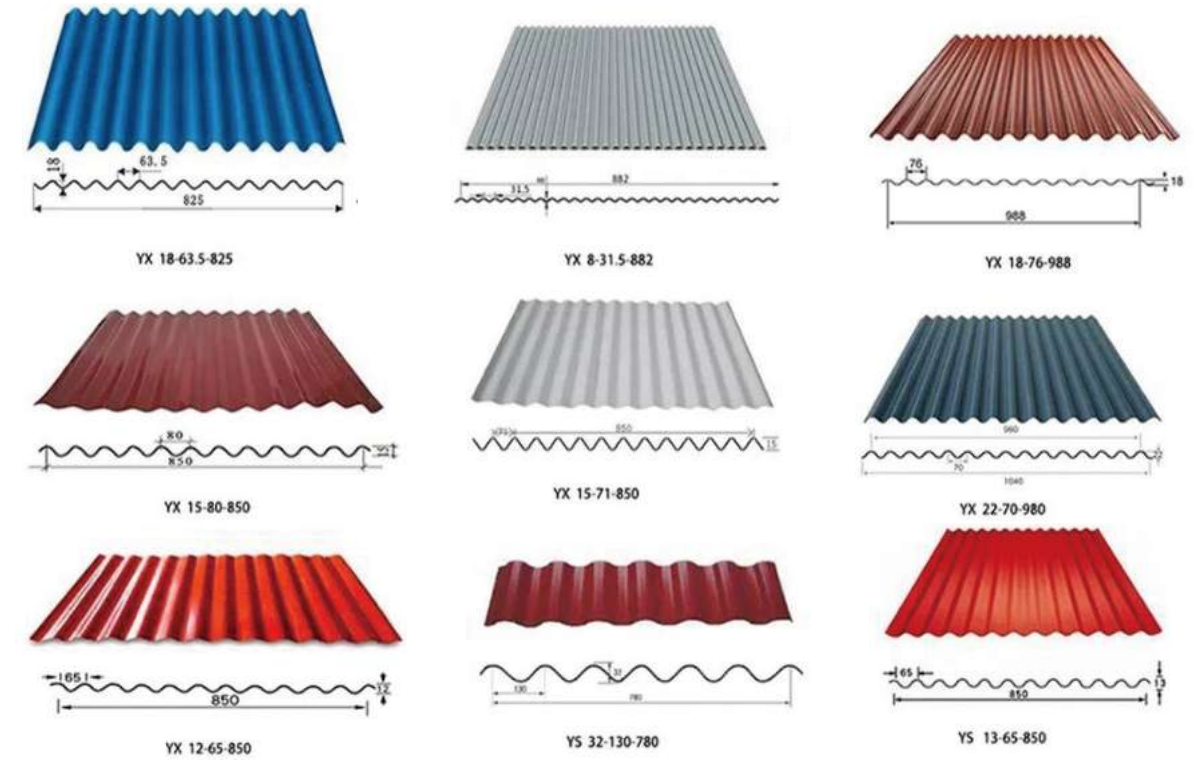
25 Years of Expertise,  
Trusted by the Industry



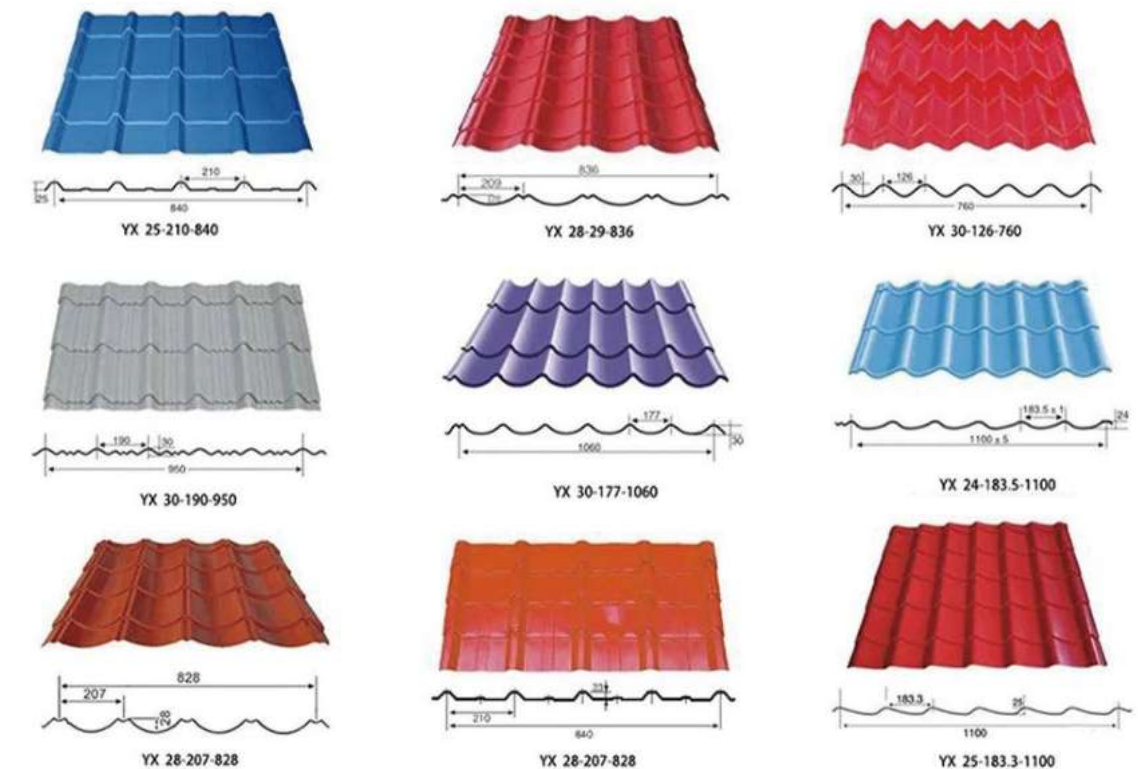
### Trapezoidal Roofing Sheet



### Wave Roofing Sheet

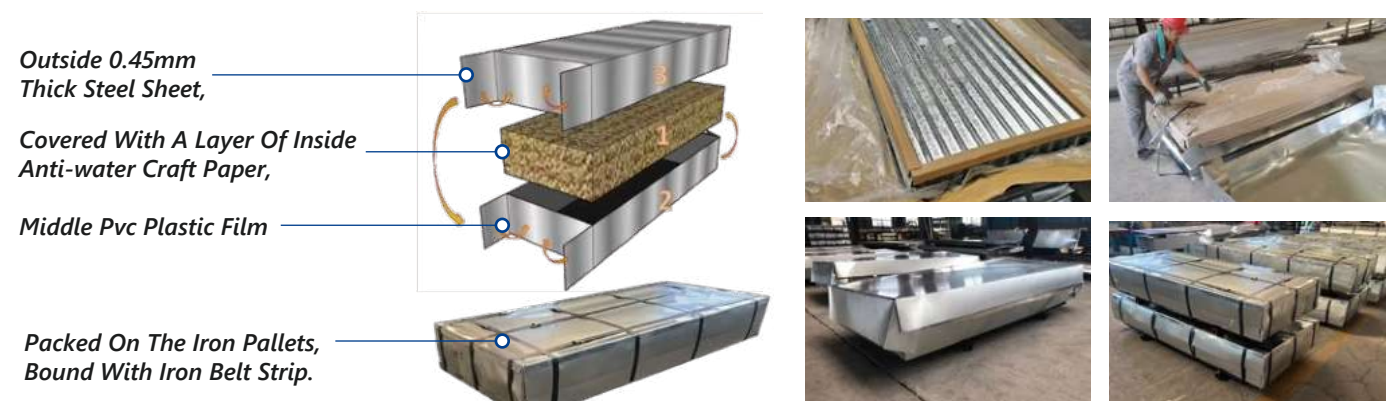
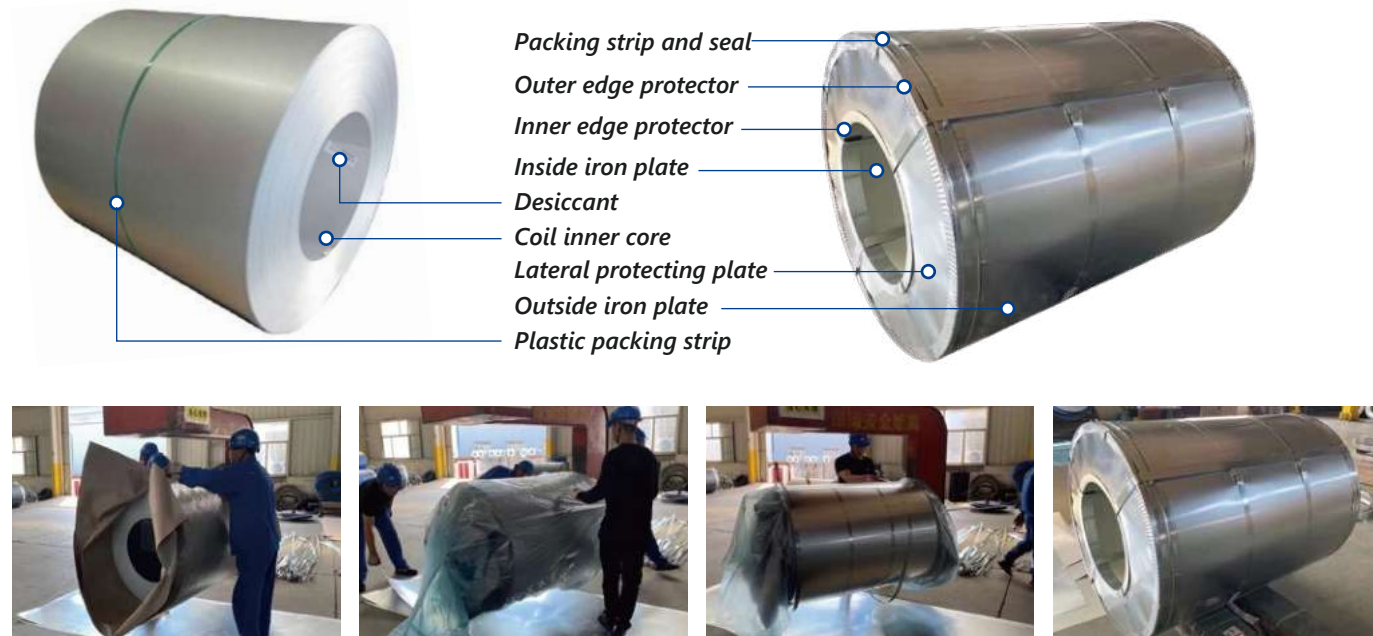


### Glazed Roofing Sheet

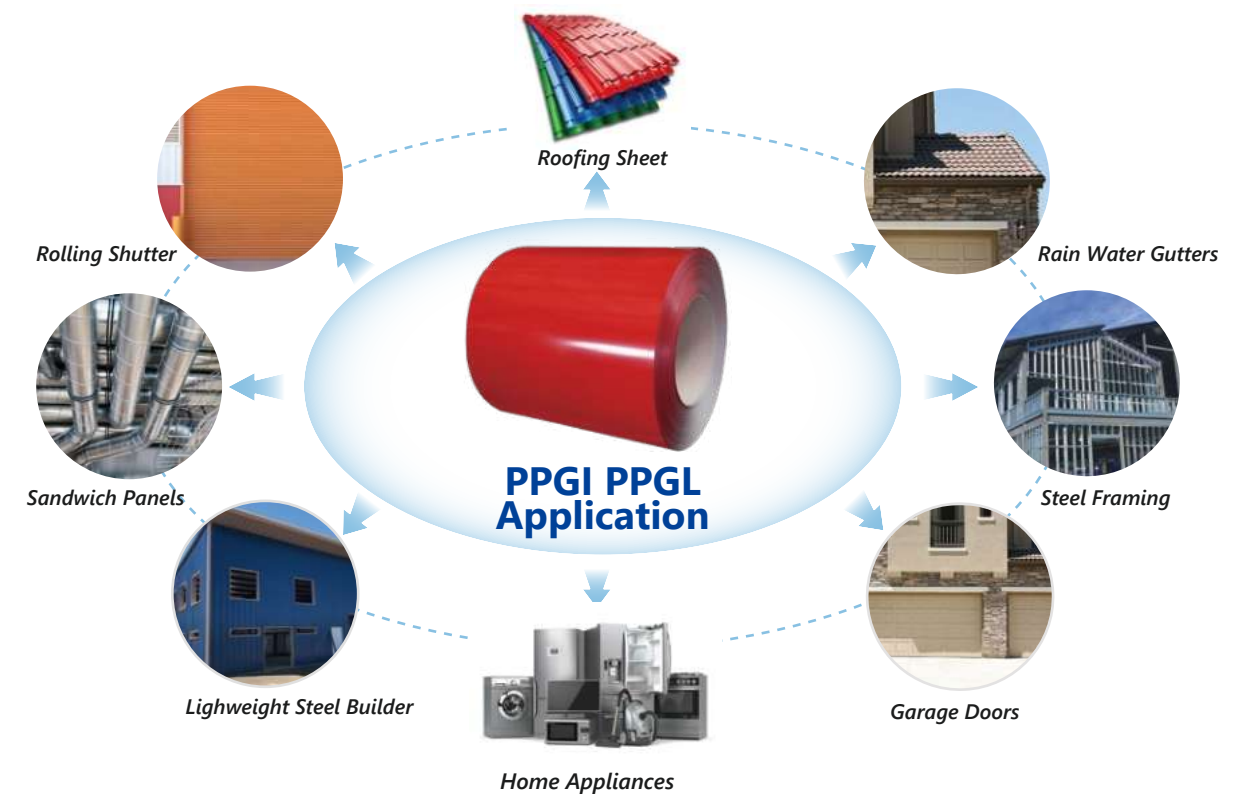
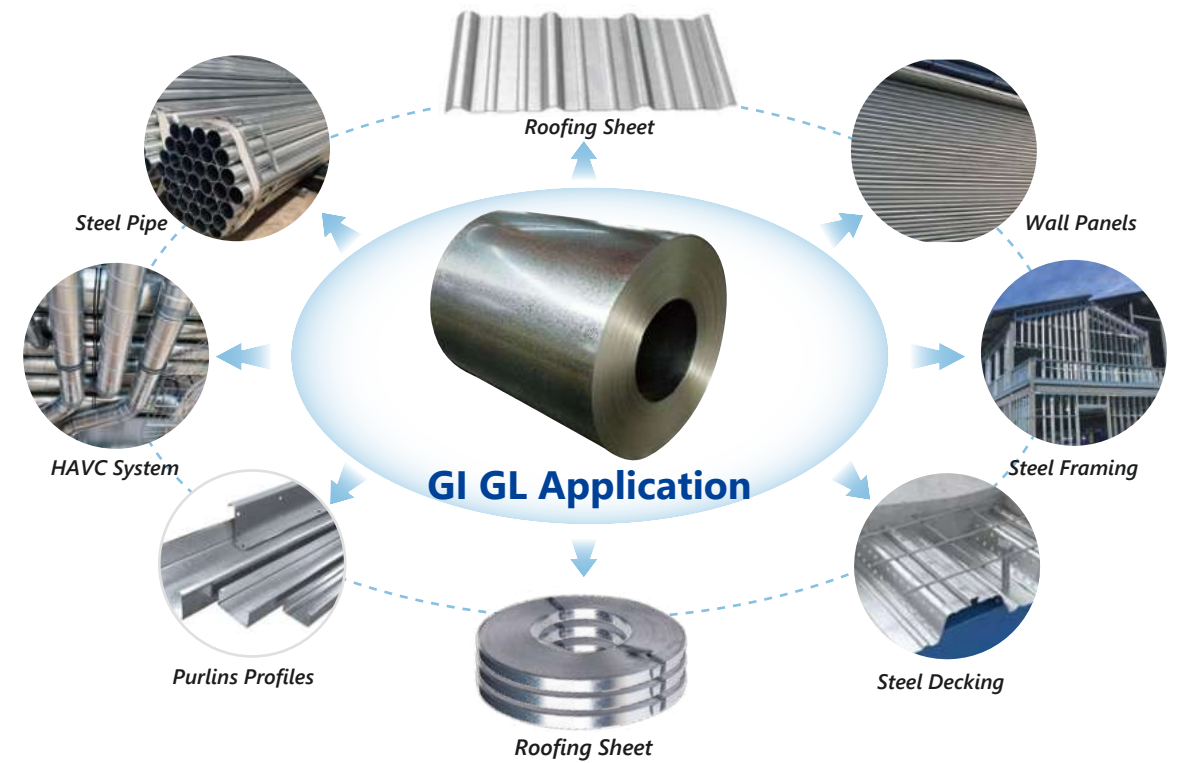




## PACKAGE AND LOADING



## APPLICATION





# PRODUCTION MACHINE



1.DECOILER



2.CLEAN



3.ANNEALING FURNACE



4.ZINC POT



5.COOLING TOWER



6.LIGHT MACHINE



7.DRYER



8.COATER

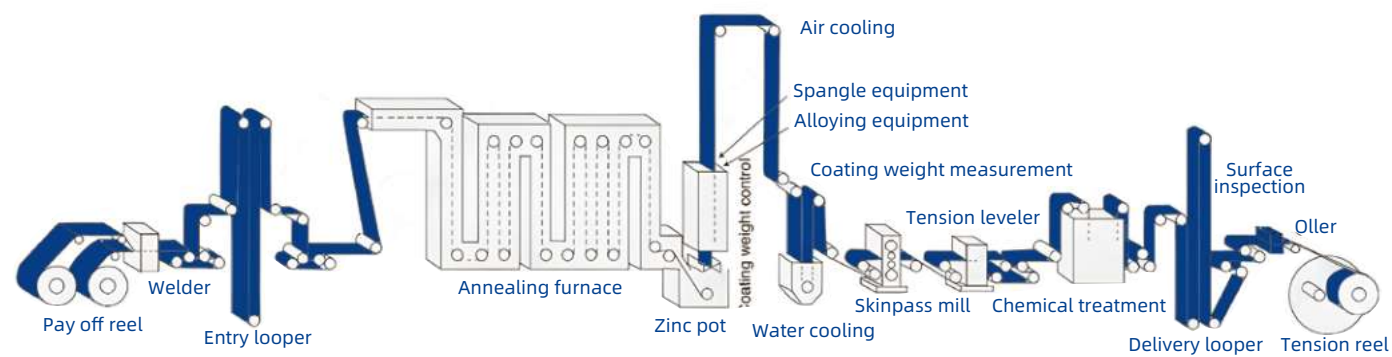


9.COILER

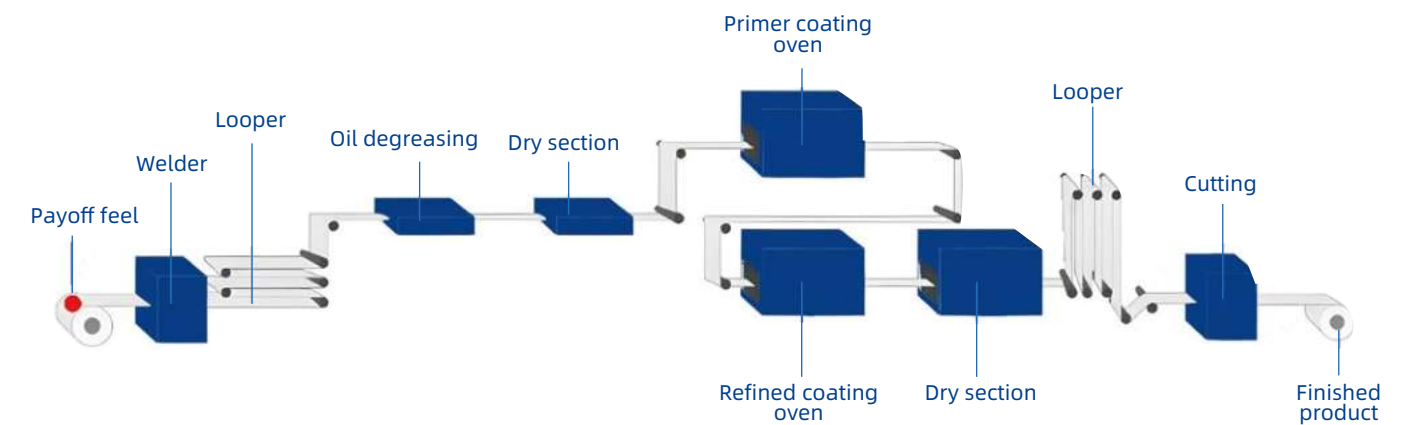


10.DECOILER MACHINE

## GI GL Production Line

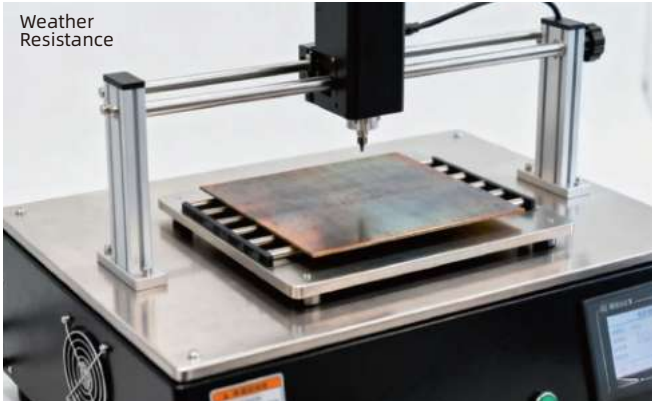


## PPGI PPGL Production Line





INSPECTION MACHINE



Pencil Hardness Tester



Thickness Tester



Chromatism



Flexibility  
Impact  
Tester



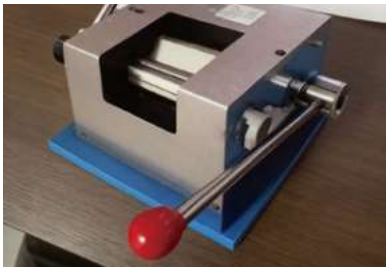
Salt Spray Resistance



Coating Thickness Tester



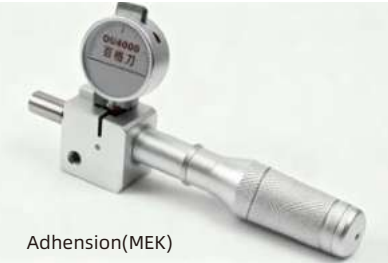
Coating Cup  
Drawing Tester



Bending Machine



Gloss Meter



Adhesion(MEK)



Mechanical Property Machine

	Standard	Material
Galvanized Steel	ASTM A653/ASTM A653M	
	JIS G3302	SGCC/SGCH
	EN 10346	DX51D/DX52D/DX53D SG350GD
Galvalume Steel	ASTM A792/ASTM A792M	
	JIS G3321	SGLCC/SGLCH
	EN 10346	DX51D/DX52D/DX53D
PPGI Steel	ASTM A755	
	JIS G3312	CGCC/CGCH
	EN 10169	DX51D/DX52D/DX53D

The Comparison of Galvanized Sheet and Galvalume Sheet

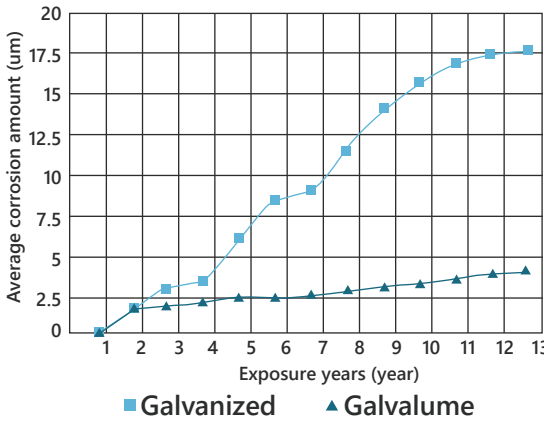
	Coating wt (g/m <sup>2</sup> )	Heat Resistance	Number of hours before visible red rust
Galvanized	275	425-540	300
Galvalume	150	590-700	5500

Galvalume's corrosion-resistance, paint ability,heat-resistanceis far superior to that ot galvanized.

Test Item Standard For Pre-painted Steel Coil

T Bend	NCCA11-19	<3T
Cupule Test	GB/T9753	>8mm
Impact(Shock Force J)	GB/T1732	>9J
Adhension(MEK)	GB/T9286	Not less than 0
Pencil Hardness	GB/T6739	> 2H
Gloss	GB/T1743	<5%
Chromatism(E)	ECCA T3	E<5
MEK Scrub Resistance	MCCA11-18	>100
Salt Spray Resistance	GB/T10125	500 hr

Outside Exposure Experiment



Properties of Color-coated Plates of Polyester Paint

Executive Standard	Coating Thickness	Brightness			Pencil Hardness	180° Band		Reverse Impact		MEK
		High	Middle	Low		Thickness≤6mm	Thickness>6mm	Thickness≤6mm	Thickness>6mm	
GB/T12754-91	≥25 μm	90	50	30	≥2H	≤3T	≤4T	≥8J	≥8J	≥100 times