



Shanghai Metal Corporation

www.shanghaimetal.com

SHANGHAI METAL CORPORATION

SMC is the leading manufacturer and supplier of metals, building materials, and machinery for building projects throughout the world. From the acquisition of raw materials, packaging and exportation, Shanghai Metal Corporation ensures only the best quality of products by assigning professional experts at every stage of production. In addition to continuous support, the SMC professional team can plan, coordinate, and oversee the engineering of your project regulation, site and terrain.

Since the establishment of our export office in Shanghai in 1998, Shanghai Metal Corporation's professional team has been working diligently to satisfy the needs of an increasing global market demand. As the only company with a trading license, SMC provides "one-stop shopping" and has been exporting globally since 2000.



The Business of
**Metallic Coated
Steel**

Try out our services,
by contacting us for a free consultation today.



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Accelerate your business potential with **Shanghai Metal Corporation**

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SHANGHAI METAL CORPORATION

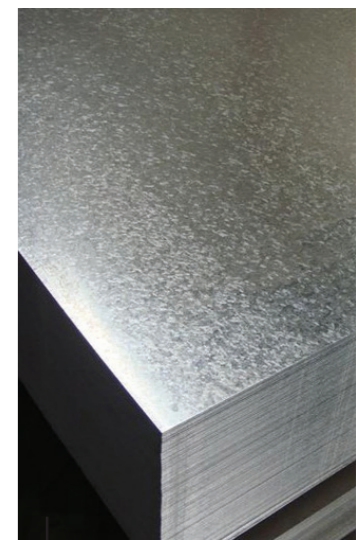
COMPANY OVERVIEW
Overview
Purpose
Vision
Mission Statement
Core Values
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APPLICATIONS

Roofing
Agriculture



Factory
Production
Storage
GALVANIZED STEEL

FACTORY

04

Hot Dip Galvanized Steel Coil / Sheet / Strip
Galvalume Coil
Prepainted Galvanized Steel Coil
Corrugated Roofing Sheet

PRODUCT RANGE

08



Shanghai Metal Corporation

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Shanghai Metal Corporation is an integrated manufacturer, exporter and supplier of value added Metal Products, Building systems, Shipping containers, and Machinery

OVERVIEW

MISSION STATEMENT

To maintain Long Lasting Relationships with our clients, and always dedicate our efforts to create Quality Products and Reliable Service, while building Global Value through our belief in Environmental Stewardship and Sustainability

To lead the market in both material manufacturing and process innovation

PURPOSE

CORE VALUES

Fair and Transparent Management – Provide clients with only the highest quality products – Continuous Innovation – Environmental Stewardship and Sustainability

To be world class through

VISION

GOALS

Maintain customer relationships through our belief in a customer driven culture – Lead the Market through Constant Innovation of our Operation Methods – To provide clients with only the Highest Quality Products through using the Latest developments in Technology and Processes

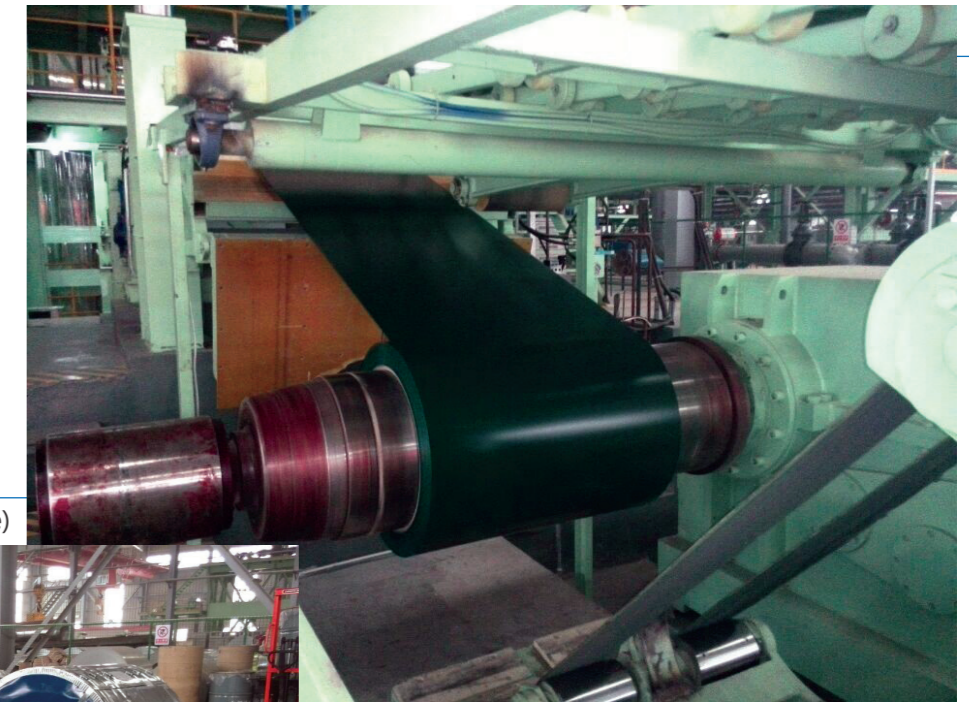


Galvanized Steel Factory

Galvanized Steel Quality Control



Galvanized Steel Coil (storage)



Prepainted Galvanized Steel Coil (storage)



Prepainted Galvanized Steel Coil (production)

APPLICATIONS



Galvanized Steel used for roofing



Galvanized Steel used for Agriculture (construction of barns)





Thickness: 0.13mm-4.0mm
 Width: 600mm-1500mm
 Zinc Coating: 30g/m²-600g/m²

Shanghai Metal Corporation is an international manufacturer and supplier for three galvanized lines of hot dip galvanized steel. The monthly output for each line is approximately 5000 ton. Our large monthly production and worldly advanced processing facilities promise the quick delivery and superior quality of products.

SPECIFICATIONS

- Capacity: about 15000 tons per month for the steel sheet and coil product
- Grade: SGHC, SGCC, DX51D, Q195, all according to the customer's request
- Standard: JIS G3302 1998, ASTM A653M/A924M 2004, all according to the customer's request
- Thickness: from 0.125mm to 5.0mm, all available
- Width: from 600mm to 1500mm, all available
- Coil ID: 508mm/610mm
- Coil weight: from 2-10MT, according to the customer's request
- Zinc coating weight: 60g/m²-600g/m², double side
- Spangle : big spangle, normal spangle, small spangle, non-spangle
- Surface treatment: Chemical passivating, oils, passivating + oils
- Edge: mill edge, cut edge
- Min trial order 10 ton each thickness, 1x20' per delivery
- Surface Treatment of Hot Dip Galvanized Steel Coil:

SURFACE TREATMENT	FEATURES
Chemical Passivating Treatment	Minimize the chance of white rust forming during transit and storage Maintain the bright, shiny appearance for a longer time
Oils	Minimize the tendency for storage and transit stain
Passivating + Oils	Provide the protection from storage and transit stain by special chemicals called corrosion inhibitors

- Spangle of Hot Dip Galvanized Steel Coil:

SURFACE FINISH	PATTERN	APPLICATION
Normal spangle	Standard spangles with flower pattern	General uses
Small spangle	Minimized spangles than regular	General painting applications
Non-spangle	Extremely minimized spangles	Special painting applications

FEATURES

- Hot dip galvanized steel features excellent forming properties, paintability, weldability, and is suitable for fabrication by forming, pressing and bending.
- It is also Environmental Friendly resource because of its longevity in corrosion protection, low environmental cost, and 100% recycled.

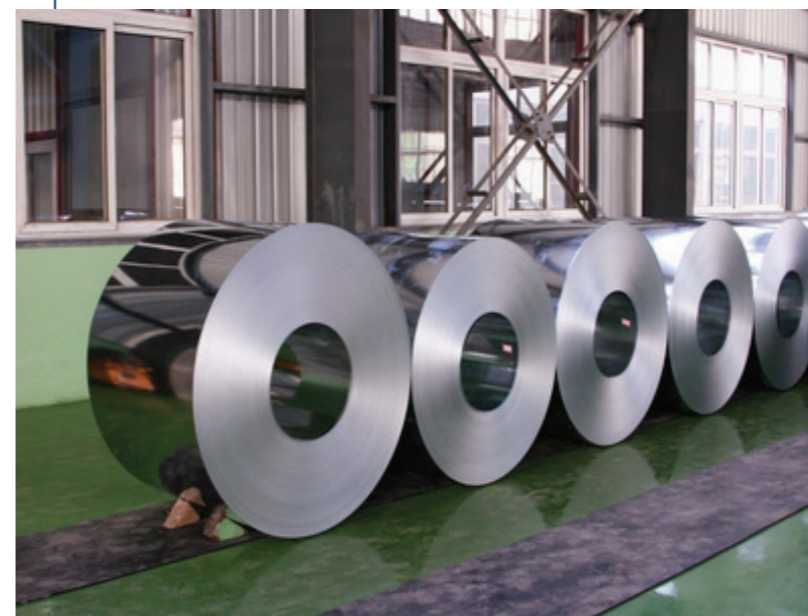
PRODUCT QUALITIES

- CQ - Commercial Quality steel for structural applications; SQ - Structural Quality steel for applications that need more draw ability; LFQ - Lock Forming Quality; DQ - Drawing Quality; DDQ - Deep Drawing Quality

OTHER GRADE

- Grade: S220GD+Z, S250GD+Z, S280GD+Z, S320GD+Z, S350GD+Z, S550GD+Z
- Thickness: from 0.25mm to 3.0mm, all available
- Width: to 1300mm, all available

Galvanized Steel Coil (production)

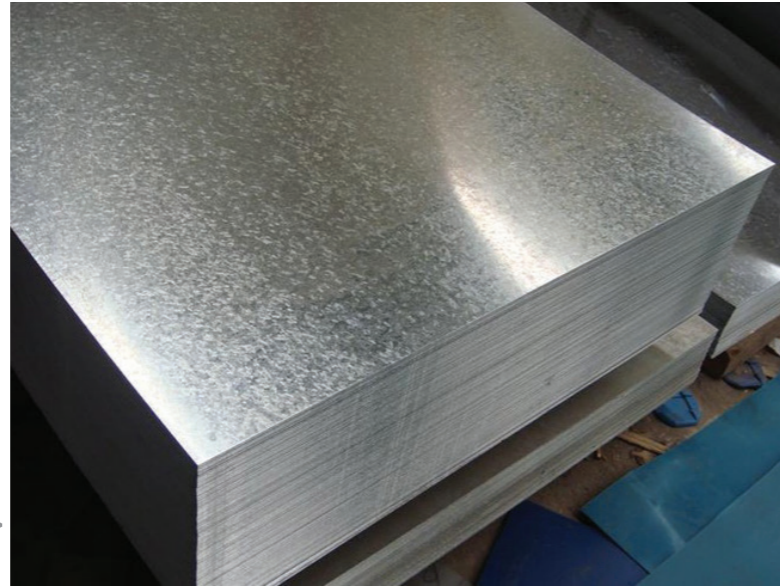


Galvanized Steel Coil (packaging)



Galvanized Steel Coil (storage)





Thickness: 0.13mm-4.0mm
Width: 600mm - 1500mm
Length: At your request

SPECIFICATIONS

- Capacity: about 15,000 tons per month for the steel sheet and coil product
- Grade: SGCC, DX51D, Q195, all according to the customer's request
- Standard: JIS G3302 1998, ASTM A653M/A924M 2004, all according to the customer's request
- Thickness: 0.125mm - 5.0mm, all available.
- Width: 600mm - 1500mm , all available.
- Standard Size: 3'x6', 4'x4', 4'x5', 4'x6', 4'x8', 5'x10', etc
- Elongation: Min. 7%
- Zinc coating weight: 60g/m²-600g/m² (z180, z200, z275, z275, z300)
- Tensile strength: 28.1 - 49.2kg/mm²
- Edge: mill edge, cut edge
- Types of Galvanized Sheet Metal: embossed galvanized steel sheet; checker galvanized steel sheet; perforated galvanized steel sheet; corrugated galvanized roof sheet; prepainted galvanized sheet; galvanized magnetic sheet PCM sheet; z275 galvanized steel; (all of our patterns are custom-manufactured.)
- Surface Treatment of Hot Dip Galvanized Steel Sheet:

SURFACE TREATMENT	FEATURES
Chemical Passivating Treatment	Minimize the chance of white rust forming during transit and storage
	Maintain the bright, shiny appearance for a longer time
Oils	Minimize the tendency for storage and transit stain
Passivating + Oils	Provide the protection from storage and transit stain by special chemicals called corrosion inhibitors

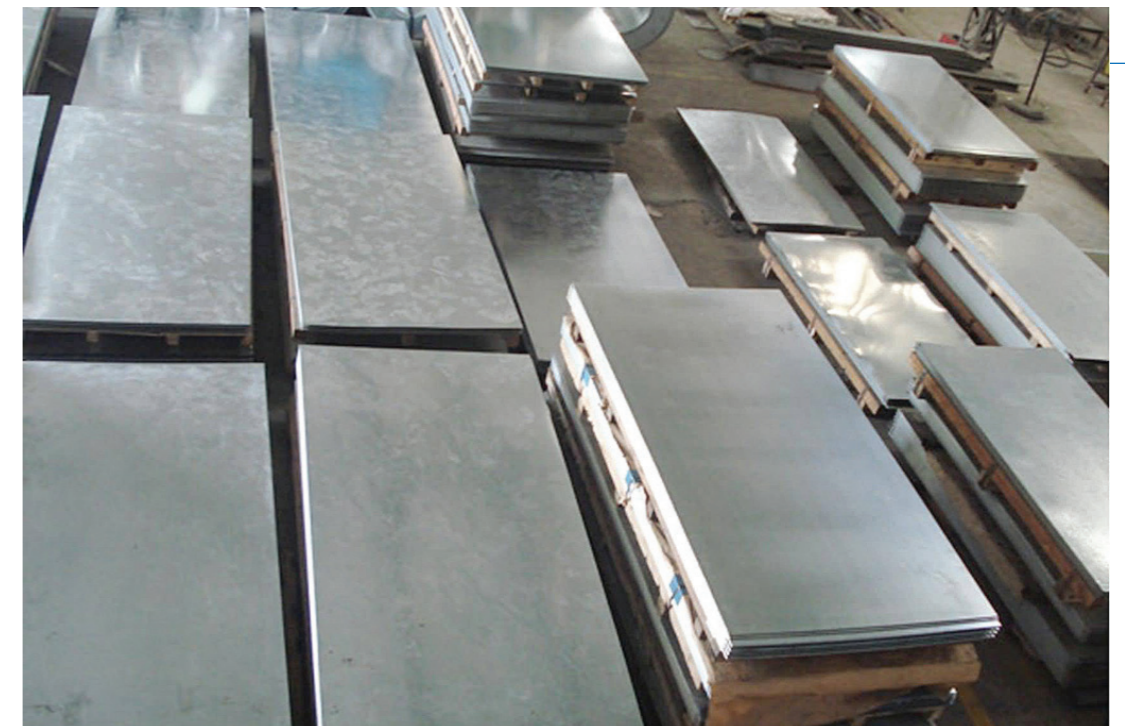
- Spangle of Hot Dip Galvanized Steel Sheet:

SURFACE FINISH	PATTERN	APPLICATION
Normal spangle	Standard spangles with flower pattern	General uses
Small spangle	Minimized spangles than regular	General painting applications
Non-spangle	Extremely minimized spangles	Special painting applications

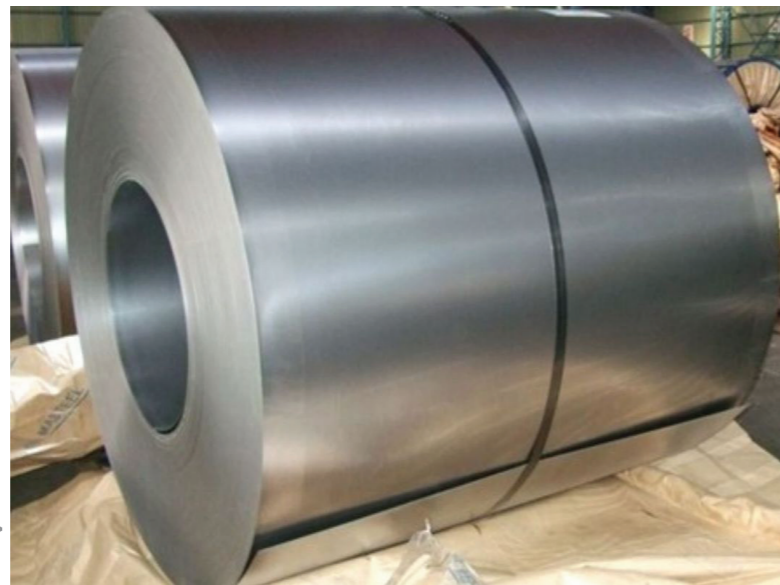
FEATURES

- We are able to make galvanized sheet to further processing, such as embossed sheet metal, checker steel sheet, perforated steel metal, corrugated roof sheet, and prepainted galvanized steel sheet. We provide various patterns for those different types. Please check the metal sheet types table below. All of our metal sheet types are custom-manufactured.

METAL SHEET TYPE	PICTURE	SPECIFICATION	PATTERN	APPLICATION
Embossed Galvanized Steel Sheet		Thickness: 0.15mm - 3.5mm Width: 600mm - 1500mm Zinc Coating: 60g/m ² - 275/m ²	Leather pattern, geometric design, etc.	Mainly used for electric appliances, such as refrigerator, washing machine, etc.
Checker Galvanized Steel Sheet		Thickness: 0.15mm - 3.5mm Width: 600mm - 1500mm Zinc Coating: 60g/m ² - 275/m ²	Diamond, 5 bars, T pattern, etc.	Used for slip-resistance flooring materials.
Perforated Galvanized Sheet Metal		Thickness: 0.15mm - 3.5mm Width: 600mm - 1500mm Zinc Coating: 60g/m ² - 275/m ²	Round, square, hexagon, rectangular pattern, etc.	Used for more engineered parts.
Corrugated Galvanized Roof Sheet		Thickness: 0.15mm - 3.5mm Width: 400mm - 1000mm Zinc Coating: 60g/m ² - 275/m ²	PVC roof sheet, prepainted galvanized roof sheet, etc.	Mainly used for roof and wall panels.
Prepainted Galvanized Steel Sheet		Thickness: 0.15mm - 1.2mm Width: 400mm - 1000mm Zinc Coating: at your request	Camouflage, marble, brick pattern, etc.	Used in the construction and building, electric appliance, etc.



Hot Dip Galvanized Steel Sheet (storage)



Thickness: 0.16mm-2.5mm
 Width: 800mm-1500mm
 Coating Weight: AZ50 to AZ185

Galvalume Steel features formable, weldable, paintable and excellent long-life time compared to galvanized steel. It mostly used in construction as roofing and electric appliance as air conditioner. Shanghai Metal Corporation has two Galvalume steel lines, and the monthly output of each line is 5,000 ton.

SPECIFICATIONS

- Capacity: about 10,000 ton per month for galvalume steel
- Standard: JIS3321/ASTM A792M
- Thickness: 0.16mm-2.5mm, all available
- Width: 800mm-1500mm, all available
- Length: according to the customer's request
- Coil ID: 508/610mm
- Coil weight: according to the customer's request
- Coating Weight: AZ50 to AZ185
- Spangle: regular spangle, small spangle, big spangle
- Steel Type & Grade:

STEEL TYPE	AS1397-2001	EN 10215-1995	ASTM A792M-02	JIS G 3312:1998	ISO 9364-2001
STEEL FOR COLD	G2+AZ	DX51D+AZ	CS type B, type C	SGLCC	1
FORMING AND DEEP DRAWING APPLICATION	G3+AZ	DX52D+AZ	DS	SGLCD	2
STRUCTURAL STEEL	G250+AZ	S250GD+AZ	255	-	250
	G300+AZ	-	-	-	-
	G350+AZ	S350GD+AZ	345 Class1	SGLC490	350
	G550+AZ	S550GD+AZ	550	SGLC570	550

- Surface Treatment of Galvalume Steel Coil:

SURFACE TREATMENT	FEATURES
Chemical Treatment	Minimize the chance of humid-storage staining forms a dark gray surface discoloration on the surface
	Retain the bright metallic luster for a long period
Oils	Minimize the tendency for humid-storage stain
Chemical Treatment and Oil	The chemical treatment provides very good protection against humid-storage staining, while the oil provides lubricity for operations
Dry	It must be transported and stored with special precautions to preserve low-humidity conditions
Anti-finger print	Minimize the chance of humid-storage staining forms a dark gray surface discoloration on the surface

APPLICATION

- Construction: roofing, cladding, structural sections, composite panels, etc.
- Electric appliance: washing machine, refrigerators, toaster, microwave, etc.
- Others: air duct, lighting, computer casing, etc.



FEATURES

- Galvalume Steel is composed of 55% aluminum, 43.5% zinc and 1.5% Silicon.
- Galvalume steel is formable, weldable and paintable.
- Galvalume steel has superior corrosion resistance in the most atmospheric conditions. This is achieved through the combination of the sacrificial protection of the zinc and the barrier protection of the aluminum.
- Galvalume Steel coating out-perform galvanized coating from 2-6 times than hot dip galvanized steel.

Galvalume Steel Coil (storage)



HOT DIP GALVANIZED STEEL STRIP



Thickness: 0.125mm-45.0mm
Width: At your request
Coil ID: 100mm/508mm

SPECIFICATIONS

- Capacity: about 15,000 ton per month for steel strip/tape product
- Thickness: from 0.125mm to 5.0mm, all available.
- Width: As your request
- Grade: SGHC, Q195, SGCC, DX51D
- Coil weight: from 50kg to 7000kg, all available.
- Coil ID: 100mm/508mm
- Tensile strength: 28.1-49.2kg/mm²
- Zinc coating weight: 60g/m²-600g/m²
- Spangle : big spangle, normal spangle, small spangle, non-spangle
- Surface treatment: chemical passivating treatment, oils, passivating + oils
- Min trial order 5ton each thickness, 1 x 20' per delivery
- Surface Treatment of Hot Dip Galvanized Steel Strip:

SURFACE TREATMENT	FEATURES
Chemical Passivating Treatment	Minimize the chance of white rust forming during transit and storage Maintain the bright, shiny appearance for a longer time
Oils	Minimize the tendency for storage and transit stain
Passivating + Oils	Provide the protection from storage and transit stain by special chemicals called corrosion inhibitors

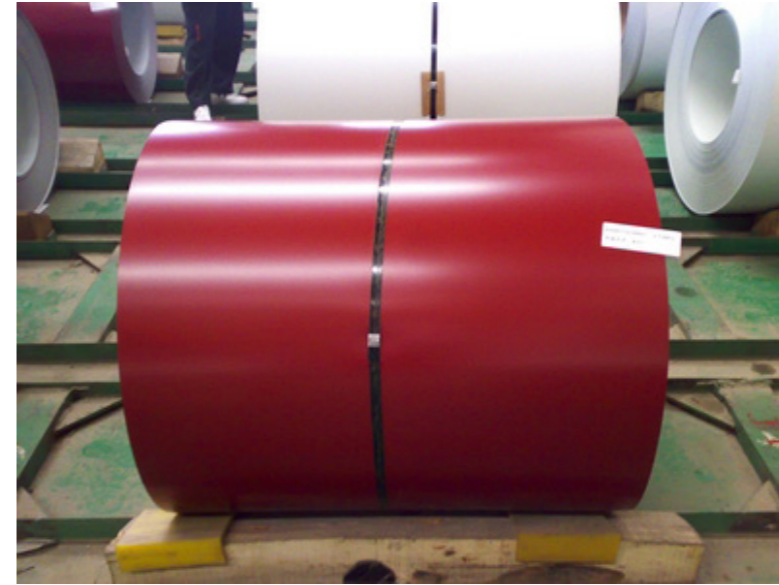
- Spangle of Hot Dip Galvanized Steel Strip:

SURFACE FINISH	PATTERN	APPLICATION
Normal spangle	Standard spangles with flower pattern	General uses
Small spangle	Minimized spangles than regular	General painting applications
Non-spangle	Extremely minimized spangles	Special painting applications

FEATURES



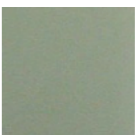
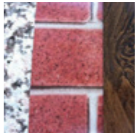

- Hot Dip Galvanized Steel Strip is manufactured to have a long durability, strong corrosion resistance and shiny surface. It is also features excellent forming properties, paintability, weldability, and is suitable for fabrication by forming, pressing and bending.

PREPAINTED GALVANIZED STEEL COIL



Building materials: exterior & interior
White goods appliances
Accessories: shutter, signboard

SPECIFICATIONS

MAJOR APPLICATION	PRODUCT	SAMPLE	SPECIFICATION
Side panels: refrigerators and washing machines, etc. Bottom panels: outdoor units of air conditioners, etc.	Prepainted Galvanized Steel -Orange-peel		Thickness:0.15mm-1.2mm Width:600m-1250mm Zinc Coating:Z60
	Prepainted Galvanized Steel -Transparent Finish		Thickness:0.15mm-1.0mm Width:≤1250mm Zinc Coating:40g/m2-120g/m2
	Prepainted Galvanized Steel -Anti-static-type		Thickness:0.15mm-1.2mm Width:600m-1250mm
External walls: residential, high-rise buildings, etc. Side panels: steel furniture, etc.	Prepainted Galvanized Steel-Graining Tone		Thickness:0.15mm-1.2mm Width:600m-1250mm Zinc Coating: 80g/m2-275g/m2
	Prepainted Galvanized Steel -Diamond Pattern		Thickness: 0.14-0.60mm Width: ≤1250mm Zinc Coating:Z60

CUSTOM-MADE

Shanghai Metal Corporation offers different finishes of prepainted galvanized steel to satisfy all your needs. Let us know if you require a product or service that you do not see listed here. We are gladly to offer custom-manufactured service for your convenience.

PRODUCTION FACILITY

PAY-OFF SECTION

The operating principles and functions are similar to the galvanizing process, except that it uses a joiner to fasten the steel sheets together.

CLEAN, PRE-TREATMENT AND CHEMICAL COATING

The GI coil is cleaned at the de-greaser tank, where oil and dust are removed by chemical means. The white rust formed on the surface can be removed at the brush assembly. The clean coil will then be coated with conditioner and chromate at the conditioner and chromate tank respectively, to provide better adhesion and corrosion resistance ability.

PRIME AND FINISH COATING

A basic layer of paint, called primer, is applied on the chemical coater in order to strengthen the corrosion resistance and paint adhesion ability. The requested colours and specifications of paint will be applied at both the top and bottom of the primer coated coil to complete the painting work.

PRIME AND FINISH OVEN

The primer coating is further cured at the primer oven and cooled at the primer water quench to ensure the painted coil is completely cured. Similarly, the finish oven and finish water quench also serve to ensure that the paint applied is completely cured and cooled.

TECHNICAL INFORMATION

CATEGORY OF PAINTING	Item	Code
	Polyester	PE
	High-durability polyester	HDP
	Silicon modified polyesters	SMP
	Polyvinylidene fluoride	PVDF
	Easy-Cleaning	—

TECHNICAL PARAMETERS

Project	Pencil hardness	Reverse impact	T bending	Cupping test	MEK cleaning
Front/back	≥ H/2H	≥ 9J/6J	≤ 3T/5T	≥ 6mm/4mm	≥ 100time/ 50time

STRUCTURE

- Topcoat (finishing) which provides color, pleasing appearance and appearance and a barrier film to enhance long-term durability
- Primer coat to prevent undercutting of paint and enhance corrosion resistance
- Pretreatment layer applied for good adhesion and to enhance corrosion resistance
- Base steel sheet

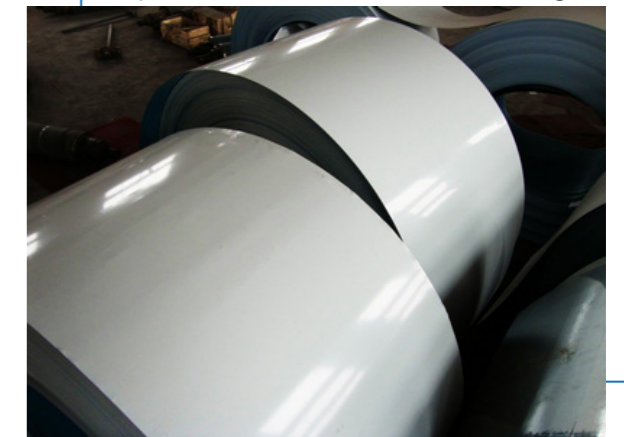
RAL Color Series



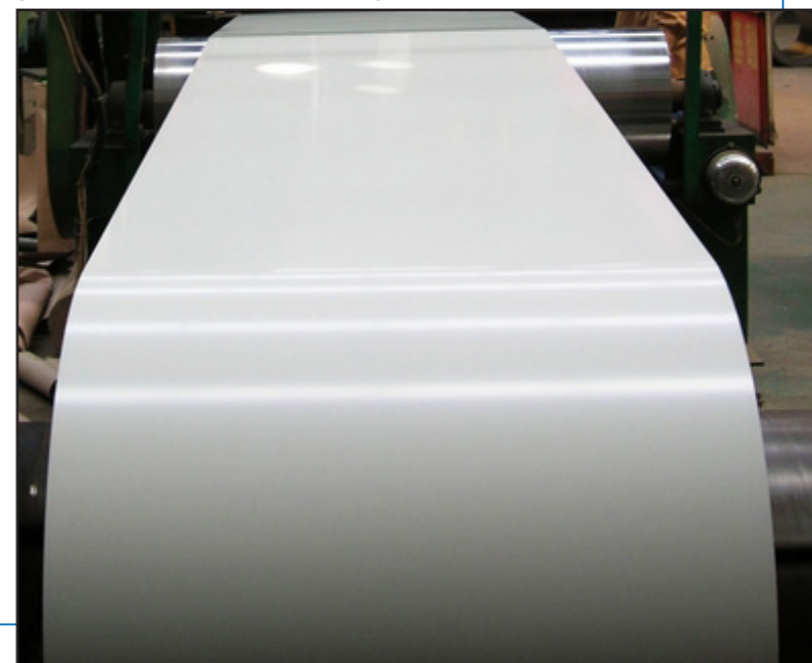
Prepainted Galvanized Steel Coil (storage)



Prepainted Galvanized Steel Coil (storage)



Prepainted Galvanized Steel Coil (production)



CORRUGATED ROOFING SHEET



Thickness: From 0.13mm to 0.80mm
 Raw Materials: Galvanised Steel, Galvalume, PPGI, and PPGL

FEATURES

IBR is abbreviated from "Inverted Box Rib", which is a trapezoidal fluted profile sheet and can be used for roofing and wall cladding in the commercial and residential buildings. Its deep and wide flutes ensure the excellent drainage characteristic combines with optimum weight and load capabilities.

Our "IBR" Sheeting is a trapezoidal fluted profile sheet, which is one of the most popular profiles for roofing and wall cladding in the most countries, especially in the South Africa. Its aesthetics and bold appearance makes it popular and attractive in the commercial and residential buildings. The deep and wide flutes ensure the excellent drainage characteristic combines with optimum weight and load capabilities.

Our roof materials for IBR roofing are galvanised & chromadek, zinalume & colorbond. Our coating types are available in Z60-Z120 galvanised zinc coating and AZ120 zinalume coating. Meanwhile, we provide roofing accessories, including roof fasteners and IBR roof machine.

Note: Our IBR can be factory cranked and curved to various patterns according to customer's request.

SPECIFICATIONS

GALVANIZED / PREPAINTED GALVANIZED STEEL	
Thickness	0.125mm-0.8mm
Coating	Z60-Z120 Galvanised Zinc Coating
GALVALUME / PREPAINTED GALVALUME STEEL	
Thickness	0.16mm-0.8mm
Coating	AZ50-AZ120 Zinalume

COLOR CHART

- Our 14 chromadek colors for roof include fish eagle white, white lion, sandstone beige, gemsbok sand, dove grey, dark dolphin, kalahari red, aloe green, umhlanga wave, kingfisher bule, azure blue, traffic green.
- Please note: The color samples below is digital guideline. There is somehow a slight difference between a real color and the digital one.

APPLICATIONS

- IBR Roof Sheet is an ideal materials for roofing and wall applications, as well as interior designs, such as ceiling, awning

TYPES

- To meet different needs SMC also offers various types of corrugated galvanized steel sheet

SMC

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