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CNBM International Corporation

STEEL COIL / SHEET

www.okorder.com / www.icnbn.com

中建材国际贸易有限公司

CNBM INTERNATIONAL CORPORATION

Innovation • Performance
Harmony • Responsibility



COMPANY PROFILE >>>

CNBM INTERNATIONAL

CNBM International Corporation (CNBM International) is the most important trading platform of CNBM Group Corporation, a state-owned company under the direct supervision of State-owned Assets Supervision and Administration Commission of the State Council.

As of the end of 2014, CNBM's total assets exceeded RMB 410 billion, with more than 180,000 employees, and 20 companies under direct management with 100% share control or majority control, among which 6 were listed companies, including 2 overseas listed. CNBM ranked NO.319 in the Top Fortune World 500 of 2013 with 34.46 billion dollars revenue.

Since 2004, the trading volume of CNBM International has been doubled in 5 successive years owing to the support of superior corporations and effort of all staff. Meanwhile, we have established strategic partnerships with hundreds of domestic manufacturers and sound business relations with clients from over 120 countries. Currently, we have wholly-owned overseas subsidiaries and branches in 5 countries with a view to realize localization, which also represents an essential progress in our globalization target.

STEEL COIL/SHEET DEPARTMENT

Our department is specialized in manufacturing and exporting the following products: hot rolled steel, cold rolled steel, hot-dip galvanized/aluzinc steel, pre-painted galvanized/aluzinc steel, printing steel.

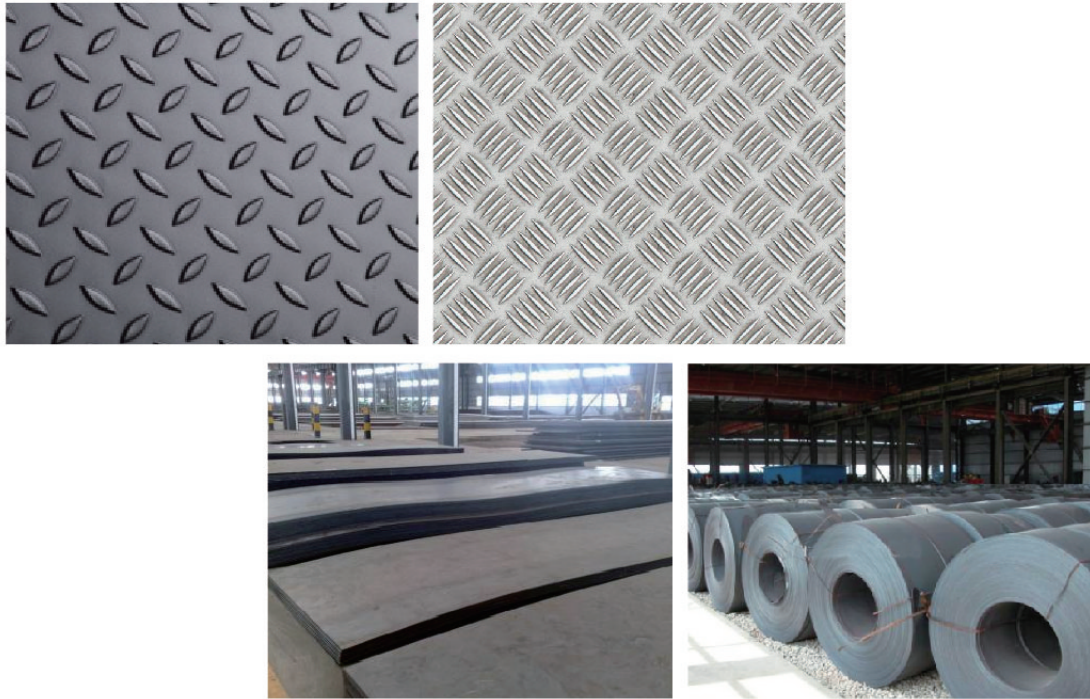
We can ensure that stable quality standards are maintained, strictly meeting both market requirements and customers' expectations. Our products enjoy an excellent reputation and have been exported to Europe, South-America, the Middle-East, Southeast-Asia, Africa and Russia etc.. We sincerely hope to establish good and long-term business relationship with your esteemed company.



CONTENTS

HOT ROLLED STEEL >>>

The Billets as raw materials, through furnace heating, high-pressure water to reduce the phosphorus, then entering the roughing mill, cutting head, end, and then put into the finishing mill, cutting the edge, after the times of straightening, leveling and other finishing line treatment, and then cutting board or coil becomes the hot rolled steel sheet and hot rolled steel coil.



AVAILABLE SPECIFICATION

	THICKNESS	WIDTH	LENGTH	COIL INSIDE DIAMETER
HOT ROLLED STEEL COIL	1.50~25.0mm	600~2000mm		762mm
HOT ROLLED STEEL STRIP	1.50~20.0mm	30~720mm		762mm
HOT ROLLED STEEL PLATE	6.00~700mm	500~4500mm	4000~18000mm	
HOT ROLLED STEEL SHEET	1.20~25.0mm	50~2000mm	0~18000mm	
HOT ROLLED STEEL CHEQUERED	1.40~10.0mm	900~1500mm	0~18000mm	

STANDARD & GRADE

HOT ROLLED STEEL COILS				
	JIS	ASTM	SAE	EN
COMMERCIAL QUALITY	G3131 SPHC	A569 A635 A659 A1011 CS Type A, B, C	1006~1025	10111 DD11
DRAWING QUALITY	G3131 SPHD		1006~1010	10111 DD12
DEEP DRAWING QUALITY	G3131 SPHE	A622 A1011 DS Type A, B	1006~1010	10111 DD13 DD14
GENERAL STRUCTURE (T.S.<490N/MM²)	G3101 SS330 SS400 G3106 SM400A G3132 SPHT1 SPHT2 SPHT3	A36 A283 GR.C A570 GR.30~40 A1001 SS GR.30~40	1010~1025	
GENERAL STRUCTURE (T.S.≥490N/MM²)	G3101 SS490 G3106 SM490A SM490YA	A570 GR.45~50 A607 GR.45~70 A1011 SS GR.45,50	J1392 050X	

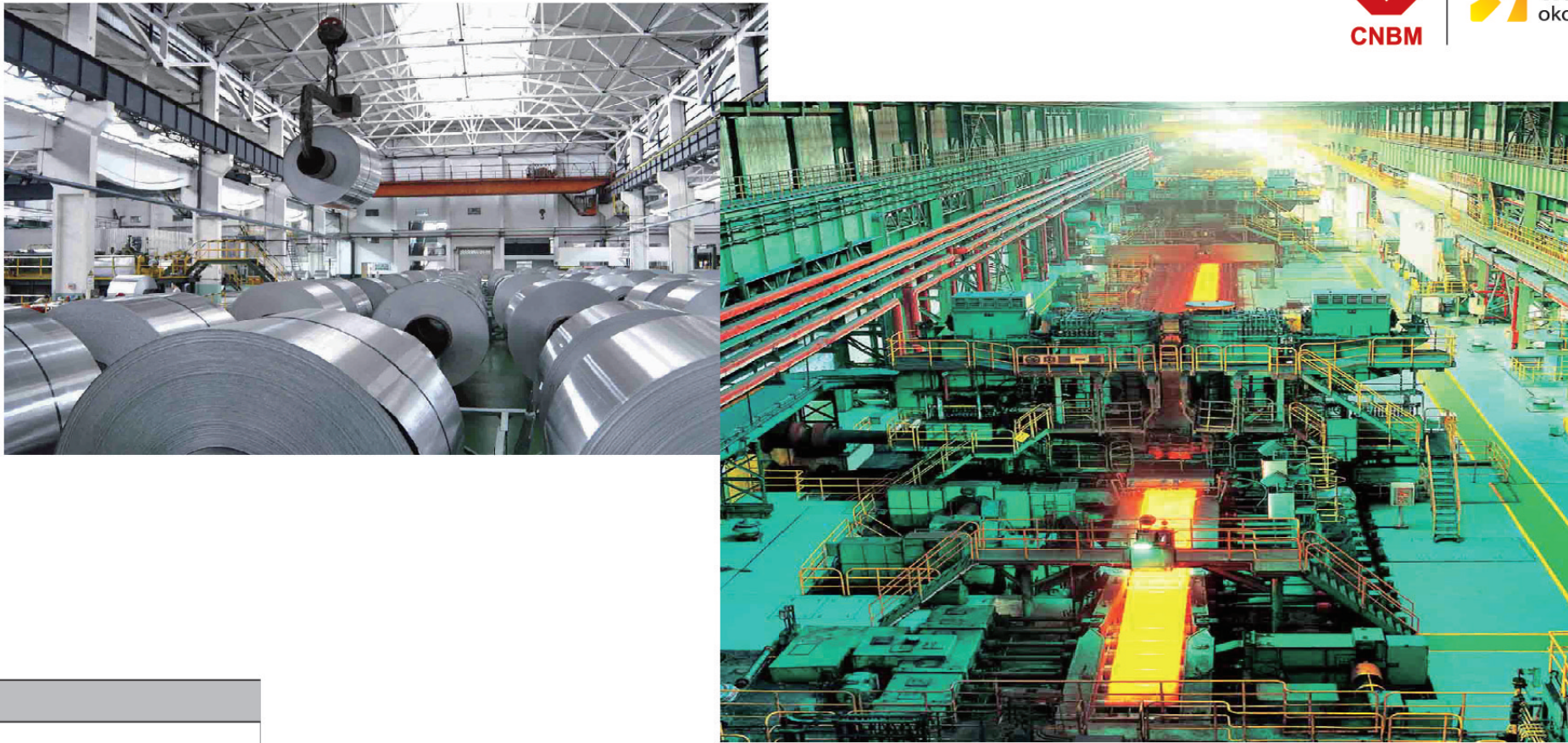
APPLICATION

Our Hot-Rolled Steel Sheets and Coils are applied to a wide range of uses such as automobile, electrical appliance, machinery manufacturing, container manufacturing, shipbuilding, bridge, pipeline, and receive high acclaim from our customers for its excellent quality.



COLD ROLLED STEEL >>>

The raw material of cold rolled steel coil/sheet is high quality hot rolled product, and after pickling, continuous rolling, degreasing, annealing, skin pass, slitting and cut to length line etc. Along with it many kinds of new technology and new process of global cold rolling production have been applied. Therefore the quality of the goods could be guaranteed.



◉ AVAILABLE SPECIFICATION

COLD ROLLED STEEL	
THICKNESS	0.08mm-4.00mm
WIDTH	30mm-2000mm
SHEETS LENGTH	+0mm-6000mm
COIL INNER DIAMETER	508mm or 610mm
SURFACE TREATMENT	Matt Finish/Bright Finish, Oiled/Dry
ANNEALING METHODS	Bright Anneal/Black Anneal
COIL WEIGHT	1mt-25mt

◉ STANDARD & GRADE

COLD ROLLED STEEL COILS			
	JIS G3141-2005	EN10130-2006	ASTM A1008-12a
COMMERCIAL QUALITY	SPCC	DC01	CS Types A/B/C
DRAWING QUALITY	SPCD	DC03	DS Types A/B
DEEP DRAWING QUALITY	SPCE SPCF (non aging)	DC04	DDS
EXTRA DEEP DRAWING QUALITY	SPCG (non aging)	DC05/06	EDDS

◉ APPLICATION

The finished product has a variety of excellent capabilities, such as processing capability and smooth, flat surface. It's widely used in outdoor and interior decoration, furnishing manufacturing, home appliance, automobile etc.



HOT-DIP GALVANIZED STEEL COIL/SHEETS >>>

Hot-dip galvanized steel coils are available with a pure zinc coating through the hot-dip galvanizing process. It offers the economy, strength and formability of steel combined with the corrosion resistance of zinc. The hot-dip process is the process by which steel gets coated in layers of zinc to protect against rust. It is especially useful for countless outdoor and industrial applications.



AVAILABLE SPECIFICATION

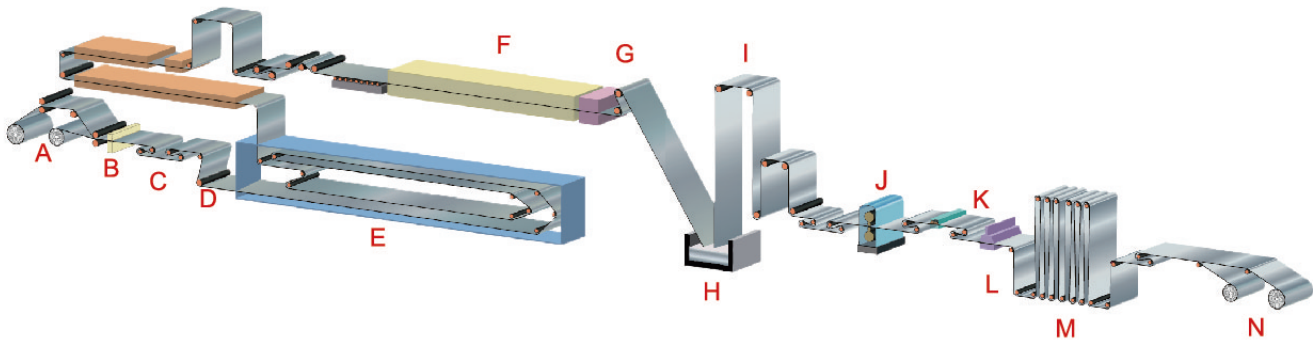
HOT-DIP GALVANIZED STEEL COILS	
THICKNESS	0.12mm-5.0mm
WIDTH	750-1850mm Max
COATING MASS	20g/m ² -400g/m ²
SPANGLE	Regular Spangle, Minimized Spangle, Zero Spangle
SURFACE TREATMENT	Chromated/non-chromated , Oiled/non-oiled, Anti Finger Print
COIL INNER DIAMETER	508mm or 610mm

STANDARD & GRADE

HOT-DIP GALVANIZED STEEL COILS				
	ASTM A653M-06a	EN10327:2004/10326:2004	JIS G 3302-2010	AS - NZS 4534-2006
COMMERCIAL QUALITY	CS	DX51D+Z	SGCC	G1+Z
STRUCTURE STEEL	SS GRADE 230	S220GD+Z	SGC340	G250+Z
	SS GRADE 255	S250GD+Z	SGC400	G330+Z
	SS GRADE 275	S280GD+Z	SGC440	G350+Z
	SS GRADE 340	S320GD+Z	SGC490	G450+Z
	SS GRADE 550	S350GD+Z	SGC570	G500+Z
		S550GD+Z		G550+Z

*Hard quality galvanized steel (HRB75-HRB90) available on customer’s request.

PRODUCTION FLOW



- A Dual Uncoiler
B Stitcher(Welder)
C Bridle
D Steering Unit
E Entry Accumulator
- F Heating & Soaking Furnace
G Jet Cooling Section
H Ceramic Zinc Pot
I Cooling Tower
J Skin Pass Mill
- K Tension Leveller
L Chromating With Dryer
M Exit Accumulator
N Dual Recoiler

HOT-DIP ALUZINC STEEL COIL/SHEETS >>>

Hot-dip aluzinc steel sheet is substrated on cold rolled steel (CRC) in various strength and specification. Coating composition is 55% aluminum in weight ratio, 43.4% zinc, and 1.5% silicon, with excellent corrosion and heat resistance performance.



AVAILABLE SPECIFICATION

HOT-DIP ALUZINC STEEL COILS	
THICKNESS	0.12mm-5.0mm
WIDTH	750-1850mm Max
COATING MASS	20g/m ² - 400g/m ²
SPANGLE	Regular Spangle, Minimized Spangle, Zero Spangle
SURFACE TREATMENT	Chromated/non-chromated , Oiled/non-oiled, Anti Finger Print
COIL INNER DIAMETER	508mm or 610mm

STANDARD & GRADE

HOT-DIP ALUZINC STEEL COILS				
	ASTM A792M-06a	EN10327-2004	JIS G 3321: 2010	AS - 1397-2001
COMMERCIAL QUALITY	CS	DX51D+AZ	SGLCC	G1+AZ
STRUCTURE STEEL	SS GRADE 230	S220GD+AZ	SGLC400	G250+AZ
	SS GRADE 255	S250GD+AZ	SGLC440	G300+AZ
	SS GRADE 275	S280GD+AZ	SGLC490	G350+AZ
	SS GRADE 340	S320GD+AZ	SGLC570	G450+AZ
	SS GRADE 550	S350GD+AZ		G500+AZ
		S550GD+AZ		G550+AZ

*Hard quality galvanized steel (HRB75-HRB90) available on customer's request.

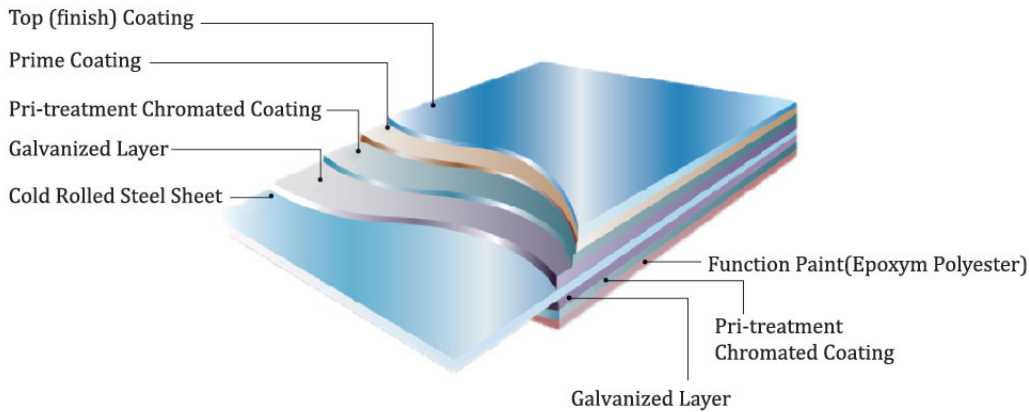
APPLICATION

Production of cold formed corrugated sheets and profiles for roofing, cladding, decking, tiles, sandwich walls, rainwater protective systems, air conditioning duct as well as electrical appliances and engineering.



PRE-PAINTED GALVANIZED/ ALUZINC STEEL COIL >>>

With GI (aluzinc) as base metal, after pretreatment (degrease and chemical treatment) and liquid dope with several layers of color, then after firing and cooling, finally the plate steel is called pre-painted galvanized (aluzinc) steel. Pre-painted galvanized steel is good capable of decoration, molding, corrosion resistance. It generally displays superior workability, durability and weather resistance.



AVAILABLE SPECIFICATION

	PRE-PAINTED GALVANIZED STEEL COIL	PRE-PAINTED ALUZINC STEEL COILS
THICKNESS	0.15mm- 1.5mm(BMT)	0.15mm- 1.5mm (BMT)
WIDTH	900mm- 1340 mm	900mm- 1340 mm
COATING MASS	30g/m ² - 275g/m ²	30g/m ² - 185g/m ²
PAINT	Standard Polyester(PE),SMP,HDP,PVDF	Polyester(PE),SMP,HDP,PVDF
COLOR	RAL Scale*	RAL Scale*
COIL INNER DIAMETER	508mm or 610mm	508mm or 610mm
COIL WEIGHT	3mt - 7mt	3mt - 7mt
BASE MATERIAL	Hot-dip Galvanized Steel Cold/Hot Rolled Steel	Hot-dip Aluzinc Steel Cold/Hot Rolled Steel

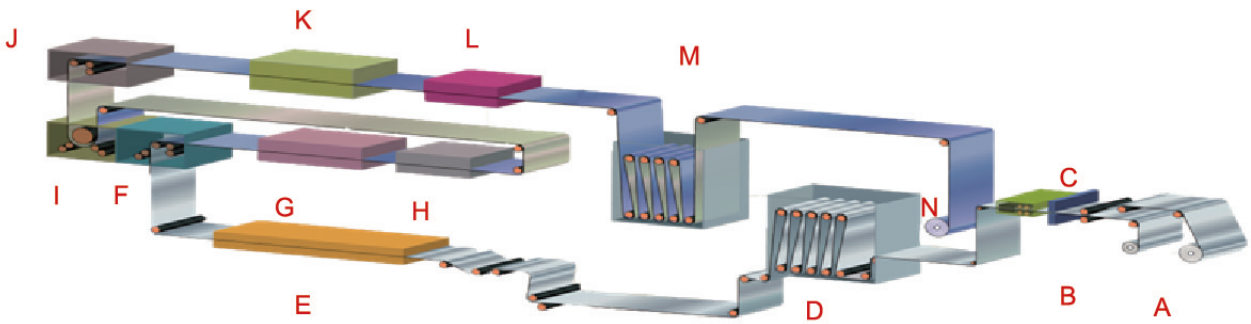
Special color available on customer request

STANDARD & GRADE

PRE-PAINTED GALVANIZED STEEL COIL			
	ASTM A755M-03	EN10169: 2006	JIS G 3312:2012
COMMERCIAL QUALITY	CS	DX51D+Z	CGCC
STRUCTURE STEEL	SS GRADE 230	S220GD+Z	CGC340
	SS GRADE 255	S250GD+Z	CGC440
	SS GRADE 275	S280GD+Z	CGC490
	SS GRADE 340	S320GD+Z	CGC570
	SS GRADE 550	S350GD+Z	
		S550GD+Z	

PRE-PAINTED ALUZINC STEEL COIL			
	ASTM A755M-03	EN10169: 2006	JIS G 3322:2012
COMMERCIAL QUALITY	CS	DX51D+Z	CGLCC
STRUCTURE STEEL	SS GRADE 230	S220GD+Z	CGLC340
	SS GRADE 255	S250GD+Z	CGLC440
	SS GRADE 275	S280GD+Z	CGLC490
	SS GRADE 340	S320GD+Z	CGLC570
	SS GRADE 550	S350GD+Z	
		S550GD+Z	

COLOR COATING LINE



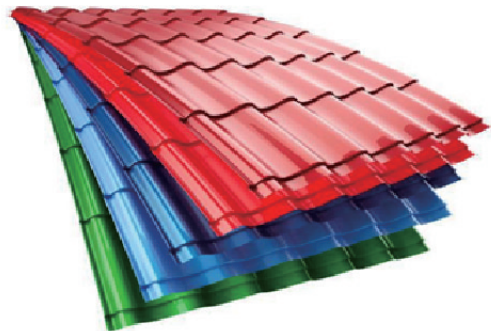
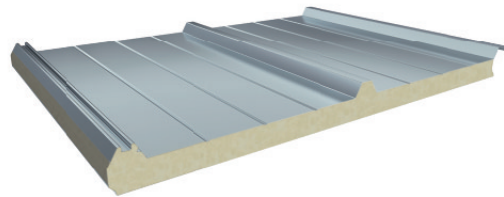
- A Dual Uncoiler
B Stitcher
C Bridles
D Entry Accumulator
E Degreasing & Chemical Section
- F Prime Coater
G Prime Oven
H Prime Water Quench
I Finish Coating
J Finish Back Coater
- K Finish Oven
L Finish Water Quench
M Exit Accumulator
N Recoiler

PAINT PROPERTY

Category	180° T Bend	Impact (J)	Salt Resistant (h)	MEK Scrub Resistance (times)	Pencil Hardness	60° Specular Glossiness of Coating	Chromatism (ΔE)
PE	≤3T	≥9	≥500	≥100	≥F	10-85	≤0.8
SMP	≤3T	≥9	≥500	≥100	≥F	10-85	≤0.8
HDP	≤2T	≥9	≥1000	≥100	≥HB	10-85	≤0.8
PVDF	≤2T	≥9	≥1000	≥100	≥HB	10-85	≤0.8

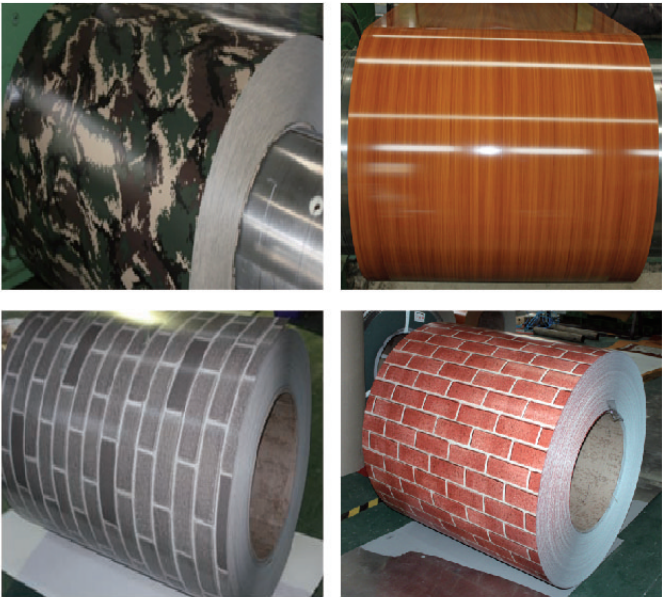
APPLICATION

OUTDOOR	roof, roof structure, surface sheet of balcony,frame of window, door, door of garage, roller shutter door, booth, persian blinds, cabana, etc.
INDOOR	door, isolater, frame of door, light steel structure of house, home electronic appliances, etc.



PRINTING STEEL >>>

CNBM Printing steel plate is the product based on the metal sheet, of which surface is finally installed of the plastic film (PVC, PE) in addition to being firstly covered with the coating and printed ink in. The coated layer of printing steel plate consists of chemical and filming layer, primer coated layer, pattern printed layer and surface coated layer. The top and back coating shall generally be the application of the weatherproof paint, as well can be the application of the paint with special capabilities such as stain-resistant, self cleaning capability, high thermal resistance , antistatic capability, sterilizing capability, finger-print prevention and etc.



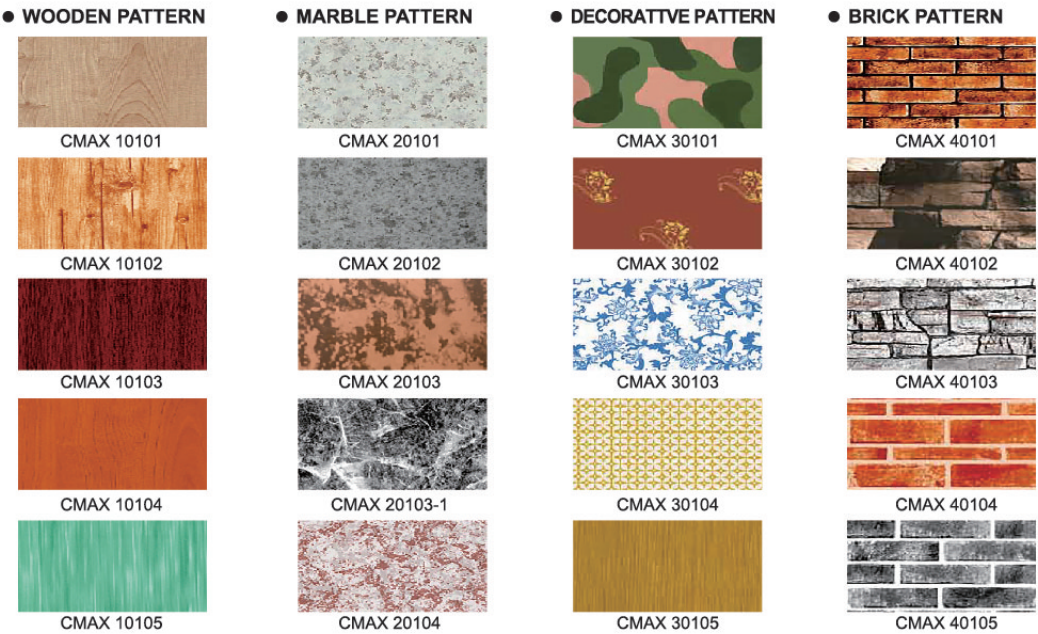
AVAILABLE SPECIFICATION

PRINTING STEEL	
BASE MATERIAL	HDGI, ALUZINC, CR
GRADE	SGCC, DX51D, ASTMA653, EN10142, S350GD
THICKNESS	0.20-0.80mm
WIDTH	600-1250 mm
ZINC COATING	60-200g/m²
PAINT	PE, PVDF, SMP, HDP
COILID	508 mm
COIL WEIGHT	3-6 mt

MAIN TEST STANDARD

PRINTING STEEL	
TBENDING	0-3T
PENCIL HARDNESS	≥ 2H
IMPACT	≥ 9J
MEK (TIME)	≥ 100
SALT SPRAY	≥ 720HR
ACID STABILITY	Dip in 5% HCl liquor for 300hr, no bubble, no color change and no peel-off
ALKALI RESISTANCE	Dip in 5% NaOH liquor for 300hr, no bubble, no color change and no peel-off

PRINT PPGI COLOR CART



APPLICATION

CONSTRUCTION	Internal and external wall, roofing, partition, ceiling, booth, air duct, etc.
FURNITURE	Wardrobe, table, chair, locker, shelves, cabinets, etc.
DOOR	Shutter door, security door, garage door, door frame, window frame and so on.
TRANSPORTATION	Car decoration board, train partition and decoration board, shipping compartment, and the decorative panel.
HOUSEHOLD APPLIANCES	Refrigerator, freezer, washing machine, air conditioner, electric fan, lamp, solar water heater, electric water heater, etc.



PACKING >>>

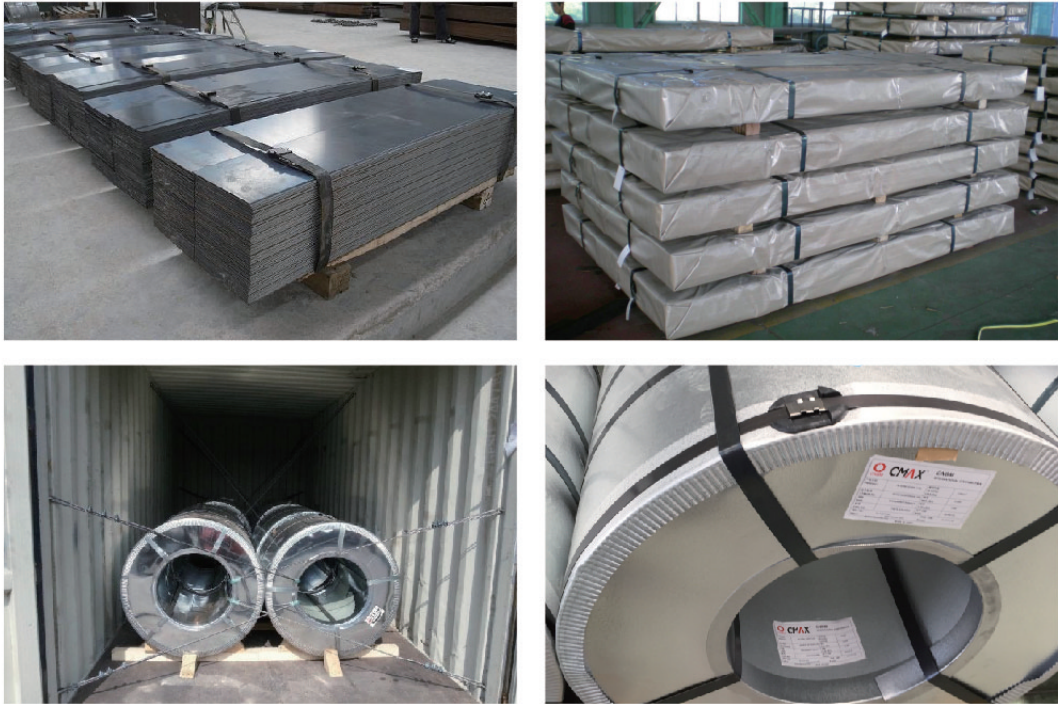
The packing of coils consists of anti-damp paper, PVC film, hardboard paper, steel box, strapped with steel strips, fitted with locks and edge protectors and guarantees the optimal condition of the delivered goods. Each coil can be additionally fitted with wooden/steel skids(eye to the side) or wooden pallets(eye to the sky).



EYE TO THE SIDE



EYE TO THE SKY



STANDARD CHEMICAL COMPONENT >>>

JIS STANDARD							
SORT	C(% ,MAX)	Mn(% ,MAX)	P(% ,MAX)	S(% ,MAX)	YS(N ² /mm ²)MIN	TS(N ² /mm ²)MIN	EL(%) MIN
SGCC	0.15	0.80	0.05	0.05	205	270	-
SGC340	0.25	1.70	0.20	0.05	245	340	20
SGC400	0.25	1.70	0.20	0.05	295	400	18
SGC440	0.25	2.00	0.20	0.05	335	440	18
SGC490	0.30	2.00	0.20	0.05	365	490	16
SGCH	0.18	1.20	0.08	0.05	-	-	-

ASTM STANDARD							
SORT	C(% ,MAX)	Mn(% ,MAX)	P(% ,MAX)	S(% ,MAX)	YS(N ² /mm ²)MIN	TS(N ² /mm ²)MIN	EL(%) MIN
CSTYPEA	0.10	0.60	0.03	0.035	170/380	—	20
CSTYPEB	0.02-0.15	0.60	0.03	0.035	205/380	—	20
CSTYPEC	0.08	0.60	0.10	0.035	170/410	—	15
SSGRADE33(230)	0.20	1.35	0.04	0.04	230	310	20
SSGRADE37(255)	0.20	1.35	0.10	0.04	255	360	18
SSGRADE40(275)	0.25	1.35	0.10	0.04	275	380	16
SSGRADE50(340)	0.25	1.35	0.20	0.04	340	450	12
SSGRADE55(380)	0.25	1.35	0.04	0.04	380	480	11
SSGRADE80(550)	0.20	1.35	0.04	0.04	550	570	—

EN STANDARD							
SORT	C(% ,MAX)	Mn(% ,MAX)	P(% ,MAX)	S(% ,MAX)	YS(N ² /mm ²)MIN	TS(N ² /mm ²)MIN	EL(%) MIN
DX51D	0.12	0.60	0.10	0.045	—	270-500	22
S220GD	0.20	1.70	0.10	0.045	220	300	20
S250GD	0.20	1.70	0.10	0.045	250	330	19
S280GD	0.20	1.70	0.10	0.045	280	360	18
S320GD	0.20	1.70	0.10	0.045	320	390	17
S350GD	0.20	1.70	0.10	0.045	350	420	16
S550GD	0.20	1.70	0.10	0.045	550	560	—

AS STANDARD							
SORT	C(% ,MAX)	Mn(% ,MAX)	P(% ,MAX)	S(% ,MAX)	YS(N ² /mm ²)MIN	TS(N ² /mm ²)MIN	EL(%) MIN
G1	0.12	0.50	0.03	0.035	—	—	—
G250	0.12	0.50	0.03	0.035	250	320	25
G300	0.30	1.60	0.10	0.035	300	340	20
G350	0.30	1.60	0.10	0.035	350	420	15
G450	0.20	1.20	0.04	0.03	450	480	10
G500	0.20	1.20	0.04	0.03	500	520	8
G550	0.20	1.20	0.04	0.03	550	550	2

CONVERSION TABLE >>>

Theoretical Conversion Table Of Steel Weight					
No.	THICKNESS (MM)	WIDTH (MM)	LENGTH (MM)	QUANTITY (PCS)	WEIGHT (TON)
1	1.00	1000	3000	1	0.0236
2	2.00	1219	5000	1	0.0957
3	3.00	1250	6000	1	0.1766
4	4.00	1500	8000	1	0.3768

Theoretical Conversion Table Of Coating		
No.	TWO-SIDED COATING (g)	THICKNESS (um)
1	60	7.89
2	80	10.53
3	100	13.16
4	120	15.79
5	180	23.68
6	220	28.95
7	275	36.18
8	350	46.05
9	450	59.21
10	500	65.79
11	600	78.95

BRANCH OFFICES IN CHINA >>>



CERTIFICATE >>>

