

Subject: FW: OFFER: CARBON STEEL & STAINLESS STEEL



IRSHIM Global Network FZE

## OFFERS



### Description of Hot Rolled Coil (HRC):

Hot rolled coils have the high intensity, good tenacity. They are easy for process moulds and good for welding etc. It's the raw materials for cold rolling products and coated products, it can be used directly in welding pipe and tubes, shipping, construction, automobile, pressure vessel, etc.

Type	Standard	Specification
Commercial quality	GB700, GB1591, GB/T6653	Q195 Q235 Q255, Q345, HP295 HP325 HP345
	JIS3101, JIS G 3132, JIS G3106	SS330 SS400 SS490 SPHT1 SPHT2 SPHT3, SM400 SM490 SM520
	EN10025	S235JR 235JR G2, S275JR, S355JR, 355MC, 420MC
	ASTM	A36
	SAE Series	SAE1006, SAE1008, SAE1010
Cold re-rolling & forming usage	As per mill protocol	CY20 CY07 RDX07
	GB699	08Al
	JIS G 3131	SPHC SPHD SPHE
Pipeline usage	GB/T14164-2005	5LB, X42 X46 X52 X60 X65, X70, X80
	GB/T9711.2-1997	LG360MB, L450MB
	As per mill protocol	J55Casing, J55Tubing

Size Range: 1.4-5.4mmx914-2500mm x Coils

Coil ID: 760mm+/-20

Coil Weight: 5-30mt

Available Chinese Mills: WISCO, Capital Steel (Shougang), Ansteel, Maanshan, Baotou, Shagang, Tisco, Nanjing, Xinyu, Lianyuan, Tangshan, Jiuquan, Jinan, Laiwu, Panzhihua, Beitai, Liuzhou, Kunming, Zhujiang, Ningbo Steel, etc.



## **Description of Hot Rolled Pickled and Oiled Steel Coil (HR P/O):**

The hot rolling pickling product is take the high quality hot rolled steel as a raw material, processed on acid pickling line to eliminate oxide layer, then skin pass, edge cutting , coil divided , oil spread. The surface quality is between hot rolling and the cold rolling, the material quality is similar to the cold rolling series product, widely applies in the automobile, the electrical appliances, mechanical and electrical, as well as other manufacturing industry.

Standard	Specification
JIS3131	SPHC, SPHD
GB700	Q195
GB699	08Al

Size Range: 1.5~4.0mmX904-1500mmXCoils

Coil ID: 610 mm

Coil OD: Max1900 mm

Coil weight: 5-24MT

Available Chinese Mills:Some small mills



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## **Description of Hot Rolled Steel Sheet (HR Sheet):**

Hot rolled sheet is cut and/or slitted from hot rolled coil. So it's basically thinner and narrow compared to hot rolled plate. Like HRC and HR plate, it has the high intensity and good tenacity. It's easy for process moulds and good for welding etc. So it's widely applied in field of pipe and tube, construction and manufacture, such as shipping, automobile, bridges, making constructive machine and pressure vessel, etc.

Standard: JIS: SS400 , SM490A,

EN: S235JR/JO/J2, S275JR/JO/J2, S355JR/JO/J2

ASTM: A36 ,SAE1006-SAE1012

GB: Q235A/B ,Q345A/B,

SHIP BUILDING : ABS, BV, CCS, DNV, GL, KR, NK, LR, RINA

Size Range: 3~25mm X 50 ~ 2200mm X 2000 ~ 16000mm

Available Chinese Mills: WISCO, Lianyuan, Baotou, Maanshan, Capital Steel, Ansteel etc. and many other medium/small mills



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## Description of Hot Rolled Plate (HR Plate):

Hot rolled plate have the high intensity and good tenacity. They are easy for process moulds and good for welding etc. So widely applied in field of manufacture, such as shipping, line pipe, automobile, bridges, making constructive machine and pressure vessel, etc

Standard	Specification
JIS	SS400, S45C, SS400A/B/C, SM490A/B/C, SPV235, SPV315, SPV355, SPV410, SPV450, SPV490, SGV410,SGV450,SGV480, SEV245, SEV295, SEV345, SLA365, SLA325A/B, SLA235A/B
ASTM	A36, A515 Gr50/60/65/70, A516Gr50/55/60/65/70, A572Gr50/60/70, A737Gr B/C, A537 C1
EN	S235JR/JO/J2/J2+N/K2/K2+N, S275JR/JO/J2/J2+N/K2/K2+N, 355JR/JO/J2/J2+N/K2/K2+N, P235GH, P265GH, P295GH, P355GH, 16Mo3, 13CrMo4-5, P275NH/NL/NL2, P355N/NH/NL1/NL2, 11MnNi5-3, 13MnNi6-3, P355ML1/ML/ML2
API	API42/5L/50/55/60/70/80
Shipbuilding Plate	Class: ABS, BV, CCS, DNV, GL, KR, NK, LR, RINA Grade: A/A32/A36/A40/B/D/D32/D36/D40/E/E32/E36/E40

Size Range:5 ~200mm X1500 ~ 5100mm X 5000 ~ 18000mm

\*The max thickness reach 650mm for molding plate

Available Chinese Mill: WISCO, Capital Steel(Shougang), Ansteel, Baotou, Shagang(Shasteel), Tisco, Nanjing, Xinyu, Tangshan, Jiuquan, Jinan, Liuzhou, Hanye, Shaoguan,Wuyang etc



## **Description of Cold Rolled Coil (CRC):**

Cold rolled coil is produced by pickling hot-rolled coil and rolling it uniformly at an appropriated temperature to a thinner thickness. It has excellent surface configuration and superb mechanical properties for use in automobile and electronic appliance production.

Standard	Specification
JIS G 3141: 2005	SPCCT-SD SPCD-SD, SPCE-SD, SPCF-SD, SPCG-SD
ASTM A1008	CS TYPE A /B/ C DS TYPE A /B, DDS EDDS
EN10130:2005	DC01 DC03 DC04 DC05 DC06

Size Range: 0.30~3.0mm x 800--2000mm x Coil

Coil ID: 508mm/610mm

Coil weight: 5--25MT

Available Chinese Mill: WISCO, Capital Steel(Shougang), Ansteel, Maanshan, Baotou, Lianyuan, Tangshan, Jinan, Panzhihua, Kunming, etc and private mills



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## **Description of Hot-dipped Galvanized Coils (GI,HGI,CGI):**

Hot-dipped galvanized steel sheet is characterized by protection base metal(Fe) as corrosion resistance of zinc itself and acts effective sacrificed-anodic of zinc. It is characterized by extremely excellent workability due to produced by continuous annealing, temper rolling and after treatment process.

Standard	Specification
JIS G 3302	SGCC SGCD1 SGCD2
ASTM A653	CS TYPE A /B/C DS TYPE A /B, DDS SS GR230. SS GR275
EN10327	DX51D, DX52D, DX53D, DX54D, S280GD, S320GD

Size Range: 0.15~2.5mmX 500~1600mmXC

Zinc coating: Z80~Z275

Coil Id: 508mm/610mm Coil weight: 5~20MT

Surface: regular/minimized spangles, chromate, skin pass or not, chromate 6 or free,

Available Chinese Mill: WISCO, Capital Steel(Shougang), Ansteel, Baotou, Lianyuan, Tangshan, Jinan, Panzhihua, Kunming, etc and some small mills



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## **Description of Cold Rolled Full Hard Steel Coil (CRC FH):**

Cold Rolled Full Hard Unprocessed Sheet is for direct use by customers for applications that do not require any formability beyond very limited bending and/or roll forming. It is supplied directly off the cold-reduction mill without any annealing to soften the steel. Thus, the steel is highly work-hardened, and exhibits a high resistance to denting, etc., but at the same time, it exhibits only minimal ductility. It can be used to produce Galvanized coil directly.

Standard	Specification
JIS G 3141: 2005	SPCCT-1B

Size Range: 0.15~2.50mm x 900--1500mm x Coil

Coil ID: 508mm/610mm

Available Chinese Mill: Baotou, Lianyuan, etc and some small mills



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## **Description of Galvalume Steel Coil (Galvalume):**

Galvalume is a flat-rolled steel sheet coated with aluminum-zinc alloy by a continuous hot-dip process. The nominal alloy composition by weight is 55 % aluminum, 1.6 % silicon, and the balance zinc. The composition of aluminum and zinc, developed by the engineers of Bethlehem Steel (USA) in the mid-60s, offers corrosion resistance and heat reflectivity similar to that of aluminum coated steel, and galvanic protection of bare edges similar to that of zinc coated steel.

Standard	Specification
ASTM A792M	CS TYPE A /B

AZ Coating: AZ50-AZ150

Size Range: 0.35—2.0mmX350-1500mmXC (TCT thickness)

Coil weight: 4-10MT

Coil ID: 508mm/610mm

Surface: Regular spangles, chromted, Anti-fingerprint treatment, oiled/unoiled

Available Chinese Mills: Lianyuan, Ansteel, etc and some small mills



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## **Description of Pre-Painted Galvanized Steel Coil (PPGI,Color):**

The prepainted steel sheet is painted by Polyester, Silicon Modified Polyester, PVDF, PVC, Acrylic, Polyurethane and Epoxy, the color can be RAL system such as. metallic, diamond, texture, printing and embossing, and make the surface can be laminated with different kinds of plastic film (e.g. polyvinyl fluoride, polyethylene) to protect the product much better from scratch and abrasion. The product is widely used in appliances, architecture, and transportation, etc.

Standard	Base Metal Specification	Zinc Coating	Prime Coating	Finished Coating
GB/T12754-06/ EN10169	DX51D DX52D S250GD S280GD S300GD S320GD S350GD	Z100-- Z275	POLYURETHANE, EPOXY	EPOXY, PE SMP PVDF

Size Range: 0.15—1.6mmX800—1600mmXC

Coil Weight: 3-15MT

Coil ID: 508/610MM

Color: RAL serial, for other colors, color sample submitted for both confirmations

Available Chinese Mills: Wisco, Panzhihua, etc and some small mills



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## Description of Electrolytic Tinmill Steel or Tin-Plate (T/P):

The tinplate, the popular name of electrolytic tinned steel, is manufactured by low-carbon cold steel with continuous electrolytic tinning units after cold-rolling, the thickness ranges from 0.1--0.4mm. The tin acts for corrosion prevention and anti-rusty function. Such product is characteristically as stable chemical composition, high erosion resistance, welding formable, non-toxic. It is widely used in manufacturing food cans, light industry, textile industry etc.

It is classified as single cold-reduced and double cold-reduced

Standard	Specification single-reduced	Specification double-reduced
JIS G 3303	T-1, T-2, T-3	DR-7M, DR-8, DR-8M
DIN EN 10202	TS230, TS245, TS260, TS275, TH415,	TH520, TH550, TH580
ASTM A623M	T-1(T49), T-2(T53), T-3(T57), T-4(T61)	DR-7.5, DR-8, DR-8.5

Type	Code g/m2	Normal Tin Volume g/m2
Equal Thickness(E)	1.1/1.1	1.1/1.1
	2.8/2.8	2.8/2.8
	5.6/5.6	5.6/5.6
	8.4/8.4	8.4/8.4
	11.2/11.2	11.2/11.2
Differential Thickness(D or A)	5.6/2.8	5.6/2.8
	8.4/2.8	8.4/2.8
	8.4/5.6	8.4/5.6
	11.2/2.8	11.2/2.8
	11.2/5.6	11.2/5.6
	11.2/8.4	11.2/8.4

Size Range: 0.1-0.5mmX700-1050mmX400-1200mm or Coil

Coil ID: 450/508MM

Coil weight: max 10MT

Available Mills: Wisco Etc and some small mills



## **Description of Wire Rod (W/R):**

Wire rod is a rolled alloy or non-alloy steel product, produced from a semi (e.g. bloom) and having a round, rectangular, hexagon, octagon, semicircle or other cross-section. Particularly fine cross-sections may be achieved by subsequent cold forming (drawing). Wire rod is wound into coils and transported in this form.

Specification: SAE1008, Q195, Q235, SAE1010, LY, H08A, XER70S-6, S45C, S20C, SWRCH6A~15A, WRCH35K/40K/45K, ML08Al, SWRCH18A/22A, SWRH77B, SWRH42A/62A/72A/72B, XGLX72A, SWRH82B, 30MnSiB, 30MnSi, ML40Cr, SCM435, SCM440, 10B18/21/28/33, 50BV30, SCr420B, CHIT, XGM6, GCr15, 20CrMnTi, 30CrMnTi, 20Mn2, 25MnV

Size Range: DIA5.5mm~34mm

Available Chinese Mills: Xingtai, WISCO, Capital steel, NISCO, Pingxiang, Shaoguan, Baotou, Xiangtan, Shagang, Hangzhou, Maanshan, Jiuquan, Etc and some other medium/small mills



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## **Description Of Re-inforcing Bar(Re-formed Bar) (R-Bar,D-Bar):**

A rebar, or reinforcing bar, or deformed bar, is a common steel bar, and is commonly used in reinforced concrete and reinforced masonry structures. It is usually formed from carbon steel, and is given ridges for better mechanical anchoring into the concrete. It can also be described as reinforcement or reinforcing steel.

Standard	Specification
GB	HRB335, HRB400, HRB500
JIS	SD390, SD490
ASTM	Gr 300, 420, 520, ASTM A615,
EN	BS4449 Gr460,

Size Range: 6~54mm X6000mm/8000mm/9000mm/12000mm

Available Chinese Mills: Almost all Chinese mills



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**Description:**

**H beam is the steel beam with h-shaped cross section, used mainly in piling and retaining structures**

**I beam is the steel beam with I-shaped cross section, used mainly in piling and retaining structures**

H Beam

Standard	Specification
GB	Q195, Q235, Q345
JIS	SS400, SS540
ASTM	A36
EN	S235JR, S275JR, S355JR

Size Range: 100~900mm X100~300mm X4~16mm X 7~28mm

Available Chinese Mills: Laiwu, Maanshan, Wisco, Panzihua, Etc and some medium/small mills

I Beam

Standard	Specification
GB	Q195, Q235, Q345
JIS	SS400
ASTM	A36, A572 Gr50, A992 Gr50,
EN	S235JR/JO/J2, S275JR/JO/J2, S355JR/JO/J2

Size Range: : 100~360mm X68~138mm X4~13.5mm

Available Chinese Mills: Laiwu, Maanshan, Wisco, Panzihua, Etc and some medium/small mills



**Description of Channel: Channel is the steel beam with C-shaped or U-shape cross section, used mainly in piling and retaining structures.**

Standard	Specification
GB	Q195, Q235, Q345
JIS	SS400
ASTM	A36, A572 Gr50, A992 Gr50,
EN	S235JR/JO/J2, S275JR/JO/J2, S355JR/JO/J2

Size Range:50~360mm x25~100mm x 3~13mm

Available Chinese Mills: WISCO, Laiwu, Baotou, etc and many medium/small mills



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**Description of ANGLE: Angle Steel is an iron or a steel structural bar with the L-shaped cross section which is used in structure, shipbuilding, bridge, etc.**

- Equal angle is with two same uprightness borders
- Unequal angle is with one border long and another short
- Inverted angle is with Scalene border and unequal thickness
- Its specification is described by border width \* border width \* border thickness (mm).

Description	Standard	Specification
EQUAL ANGLE OR UNEQUAL ANGLE	GB	Q195, Q235, Q345
	JIS	SS400, SS540
	ASTM	A36, A572 Gr50
	EN	S235JR, S275JR, S355JR

Size Range:10~350MM X 10~350MM X3~35MM X 4-16M

Description	Class And Grade
INVERTED	Class: ABS, BV, CCS, DNV, GL, KR, NK, LR, RINA
ANGLES	Grade: A/AH32/AH36/B

Size Range: 200~450mm X 90~125mm X 6~25mm X 6000mm/9000mm/12000mm

Available Chinese Mills:Lianyuan, Nisco Etc, and many other medium/small mills



## **Description of Flat Bar:**

Flat bar is the rolled steel bar with cross-section of rectangular. Size Range:4~50mmX12~300mmX4000~12000mm

Standard	Specification
GB	Q195, Q235, Q345
JIS	SS400, SS540, SUP9
ASTM	A36, ASTM A572 GR50
EN	S235JR, S275JR, S355JR

Size Range:4~50mmX12~300mmX4000~12000mm

Available Chinese Mills: Nanchang(changli), etc and many Medium/small mills



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## **Description of Hot-Rolled Stainless Steel Coil**

**(STS HR):** In metallurgy, stainless steel is defined as a steel alloy with a minimum of 10% chromium content by mass and some other alloy like nickel. The chromium forms a passivation layer of chromium oxide (Cr<sub>2</sub>O<sub>3</sub>) when exposed to oxygen. The layer is too thin to be visible, and the metal remains lustrous. It is impervious to water and air, protecting the metal beneath. Stainless steel's resistance to corrosion and staining, low maintenance, relatively low cost, and familiar luster make it an ideal base material for a host of commercial applications. There are over 150 grades of stainless steel, of which fifteen are most common. Hot-rolled stainless steel coil is a semi-finished product obtained by hot-rolling slabs or billets. HR stainless steel has good property of plasticity, easy-forming, and has no internal stress so easy to apply the further processing.



Steel Grade:

430 .409L .410S. 1.4003 .405 .420. 436 .439. 444

304 .304L (8.0) .304L (9.0) .301 .316L. 1.4541. 317L. 305 309S .310S. 2305. 2304 .316Ti .347

Size Range : 3.0-14.00mmX 1000-2000mmX4000-8000mm or Coil

Coil ID: 760mm+/-20

Available Chinese Mills: TISCO



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## **Description of Hot-Rolled Stainless Steel Plate/Sheet (STS Plate/Sheet):**



In metallurgy, stainless steel is defined as a steel alloy with a minimum of 10% chromium content by mass and some other alloy like nickel. The chromium forms a passivation layer of chromium oxide (Cr<sub>2</sub>O<sub>3</sub>) when exposed to oxygen. It is impervious to water and air, protecting the metal beneath. Plate is a flat-rolled or forged product more than 250 mm (10 in.) in width and at least 3.00 mm in thickness. Plate is usually produced by hot rolling from slabs that have been directly cast or rolled from ingots and that usually have been conditioned to improve plate surface. Some plate may be produced by direct rolling from ingot. Sheet is cut from HR coils.

Detail list of HR stainless plate:

	Specification	Size Range
Sheet From HRC	430 409L. 410. 410s. 1.4003. 405. 420. 436. 439. 444	3.0-6.0mmX1000mm,1219mm, 1250mm
	304. 304L(8.0).304L(9.0).301. 316L. 1.4541. 317L. 305. 309S. 310S. 2205. 2304. 316Ti. 347	3.0- 16.00mmX1000mm,1219mm, 1250mm, 1500mm, 1524mm
Plate	304. 304L(8.0).304L(9.0).301. 316L. 1.4541. 317L. 305. 309S. 310S. 2205. 2304. 316Ti. 347 405. 420. 436. 439. 444	8.0-30mmX1500mm,1800mm, 2000mm, 5feet, 6feet 31.0-55.0mmX1500mm,1800mm, 2000mm, 5feet, 6feet

Size range: 3.0-55mmX1000-1500mmXLength

Available Chinese Mills: Tisco Etc

## **Description of Cold-Rolled Stainless Coil/Sheet (STS CR):**



In metallurgy, stainless steel is defined as a steel alloy with a minimum of 10% chromium content by mass and some other alloy like nickel. The chromium forms a passivation layer of chromium oxide (Cr<sub>2</sub>O<sub>3</sub>) when exposed to oxygen. The layer is too thin to be visible, and the metal remains lustrous. It is impervious to water and air, protecting the metal beneath. Stainless steel's resistance to corrosion and staining, low maintenance, relatively low cost, and familiar luster make it an ideal base material for a host of commercial applications. There are over 150 grades of stainless steel, of which fifteen are most common. Cold-rolled stainless steel strip is manufactured from hot-rolled, annealed, and pickled strip by rolling between polished rolls. Depending on the desired thickness, various numbers of cold rolling passes through the mill are required for effecting the necessary reduction and securing the desired surface characteristics and mechanical properties

Steel Grade:
304. 304L (8.0) .301. 316L . 1.4541. 317L.
305. 309S. 310S . 2205. 2304. 316Ti . 347.
430. 409L. 410 410S . 1.4003

Size Range: 0.3-3.0mmx1000-2000mmx4000-8000mm or Coil

Coil ID: 610mm

Surface: 2B, BA

Available Chinese Mills: Tisco Etc



## **Description of ERW Round Pipe:**

ERW pipe is widely used in the fields of construction, low-pressure liquid transportation.

Standards:GB/T3091-2002 BS1387: 1985 DIN2440,

EN39-2001 ASTM A53 Gr.Asch40 ASTM A500

Size Range: 1/2"-8"



## **Description of Square/Rectangular Tube:**

Square/Rectangular tube is applicable to frame for civil construction, furniture and etc.

Standard:GB/T6728-2002 , ASTM A500 Gr. A. B. C. JIS G3466

Size Range: 10x10mm-400x400mm



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