



Steel Products

- Flat Products

- Long Products

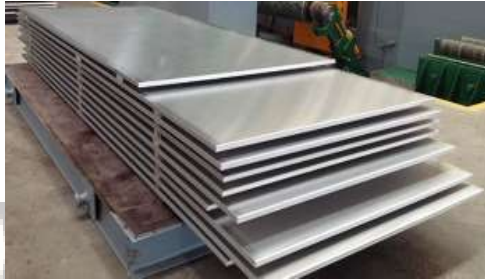
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Flat Products

- Slabs
- Hot rolled coils / sheets / plates
- Cold rolled coils / sheets
- Galvanized / Al-Zn base coils, sheets
- Pre-painted Zinc based or Al-Zn based steel coils

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Hot rolled coils and plates



Dimensions

Parameters	Coils	Sheets and Plates	Checkered coils
Thickness	1.2 - 25 mm	6 – 600 mm	2 – 10 mm
Width	900 – 2500 mm	1500 – 4500 mm	900 – 1500 mm
Coil weight	14 – 35 MT	Depends upon the production route i.e., slabs / ingots	14 – 35 MT for coils
Coil ID	762 / 850 mm	Not Applicable	762 mm for coils
Length	Not applicable	As per customized requirement for sheets / plates	As per customized requirements for sheets / plates

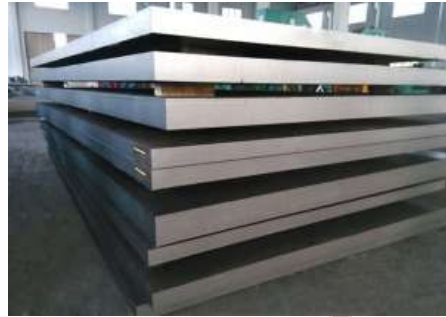
Various hot rolled steel specifications and applications

Sr.no	Steel Grades	IS Standards	EN Standards	ASTM Standards	JIS Standards	GOST Standards
1	For Cold rolling and galvanized and HRPO grades	IS 1029 HR strips bailing, IS 1079 HRO to HRS grades for HRPO and IS 11513 for cold rolling and galvanizing, IS 2385 HR strips / sheets for making CR tin plates and CR Black plates	DD11,DD12,DD13,DD14,EN10011 STANDARD	SAE 1006 / SAE 1008 / SAE 1010 / ASTM A1011 CS, DS type grades	JIS G3131	GOST 1050
2	Steel for welded tubes	IS 10748, IS 15647			JIS G3132	
3	Structural grades	IS 2062	S234, S275, S355 in JR/JO /J2 conditions as per EN10025 specification	Grade33,40,50,55,60 as per ASTM 1011, ASTM A36, A283, A572	JIS G3101	GOST 16523, GOST 14637, GOST 19281
4	Automobile sector	IS 1079 Grade YS255 to YS550 and DP steel	S315MC, S355MC, S420MC, S460MC, S500MC, S600MC and S700MC	SAE1392 XLF grades and as per ASTM A1011	JIS G3113	
5	Pipes for oil / gas sector	IS 1978 for pipe line	L245 to L555 Grades as per EN110208	API 5L Grade B,X42,X-46,X-52,X-56,X-60,X-65,X-70	JIS G3106 /JIS G3128	
6	Boiler and pressure vessels	IS 2002 for Boiler quality and IS 15914 for gas cylinder and IS 11714 for carbon and alloy steel tubes, IS 2041 for pressure vessels and boiler plates for medium and high temp applications	All grades as per EN10028	ASTM A515, A387, A240,A516	JIS G3116 / G3103	
7	Corrosion / weather resistant steel	IS 2062, IS 11587	S235, S275, S355 with Copper as per EN10025, EN10155/156	ASTM A606 / TM A242AS	JIS G3125 / JIS G3114	
8	Checkered plates	IS 3502-2009	DIN 59220	ASTM A786	JISG3193	
9	Ship building grades	IS 3039 HR for construction of shipping hulls		ASTM A131		
10	Steel plates for galvanized pot	IS 8917	BS 2858			
11	Steel for agriculture village disc	IS 9442				
12	Fire resistant steel	IS 15103				

Cold rolled Steels coils and sheets



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Dimensions

Thickness	0.3 to 30 mm
Width	1000 to 1850 mm Also can be supplied slit widths from min 50 mm width
Coil Weight	5 to 20 MT
Coil ID	508 and 610 with +/- 20 mm
Surface finish	Bright, Mat and rough
Thickness / Width / Flatness	As per standard
Oiling	As per customer requirement
Packing	Packing with protection at edges

Cold rolled Steels coils and sheets



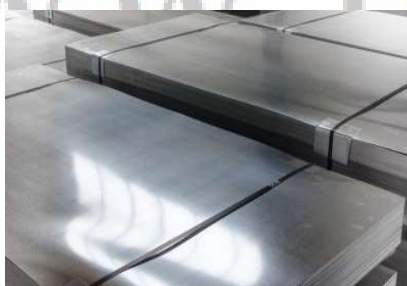
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Sr.no	Applications	IS Standards	EN Standards	ASTM Standards	JIS Standards
1	Cold rolled full hard and annealed grades	-513 CR0, CR1, CR2, CR3, CR4	DC-01, DC-02, DC-03, DC-04, DC-05 and DC-06 as per EN10130 standards	SAE 1006, SAE 1008, SAE1010 /ASTM A1008 CS, FS, DD, EDDS grades	JISG3141 SPCC, SPDC, SPCEN
2	Cold rolled annealed made of high strength micro –alloyed steels for cold forming	IS 14491-1997	H240 LA, H280LA, H320LA as per EN10268		
3	Cold rolled annealed grades for enamelling quality	IS 513, is 9485	EKDC-01 to EKDC-06 as per EN10209 specifications	ASTM A424 Type 2	JIS G3133
4	Cold rolled Electricals steels	IS 648 for Non grain oriented and IS 3024 for grain oriented steel, IS 15391 non grain oriented semi finish	EN10341	ASTM A677	JIS G2522
5	Cold rolled strips for spring	IS 2507			
6	CR strips for strapping	IS 5872			
7	CR medium and high carbon low alloy for general engineering applications	IS 7226			
8	CR strips for carbon steel razor blades	IS 9476			
9	CR for tin plates / electrolytic chromium /chromium oxide coating	IS 11951, IS 12591			
10	CR for welded tubes	IS 12367			
11	CR electrolytic tin plate	IS 1993			

Hot dip galvanized Al-Zn coated products



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Hot dip galvanized, Al-Zn coated products

Dimensions

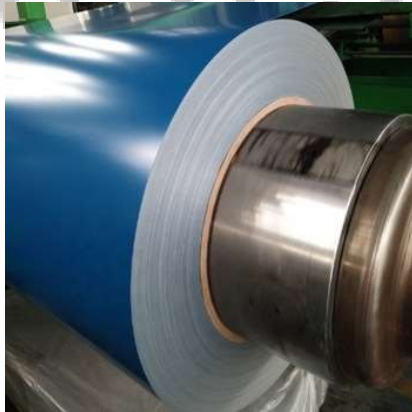
Thickness	2.20 to 4.5 mm
Width	900 to 1800 mm Slit coils can be supplied with 50 mm min. width
Coil Weight	5 to 20 MT
Coil Weight gsm	100 – 275 Lower or higher coat weights also can be supplied based on actual requirements
Coil ID	508 /610 mm
Surface Treatment / Passivation	Chormating with CR6 / CR3 / oiling / dry / anti finger print quality for AZ base steel
Spangle	Normal, Minimized spangle, Zero Spangle

The base of galvanized product can be hot rolled or cold rolled base depending on size

Hot dip galvanized, Al-Zn coated products

Specifications	IS Standard	EN Standard
Hot Dip galvanized steel	IS 277	DX-51, DX-52, DX-53, DX-54 as per EN10327 standard
Hot dip galvanized for structural application	IS 277	S220GD, S250GD, S280GD, S320GD, S350GD, S550GD as per EN10326 standard
Al-Zn coated products	IS 15961, IS 15965	Al-Zn coating from 100gsm to 150gsm as per EN10326 /EN10327 standard

Pre – painted galvanized base or Al-Zn based steel coils/sheets



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Pre-painted galvanized base or Al-Zn based steel

Dimensions and Quality

Thickness	0.16 to 2 mm
Width	900 to 1500 mm
Coil weight	3 to 10 MT
Steel Grades	DX 51, CS type B, Structural Grades S220, S250
Different paint types	Polyester, Plastisol as per customer requirements and paints availability and as per standards

Pre-painted galvanized base or Al-Zn based steel coils / sheets



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Applications

Indian Standard

EN Standard

ASTM

For roofing application

For cold storage applications

For special projects

IS 14246 for normal Zn based pre-painted steel and IS 15965 for Al-Zn based pre-painted steel

As per EN10169 part 1 and part 2 specification and ASTM specification

ASTM 792 for Al-Zn and ASTM A755 for G1 based pre painted steel



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Long Products

- Billets, Blooms
- Wire rods
- Round Bars
- Re Bars
- Steel Sections

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Billets, Blooms



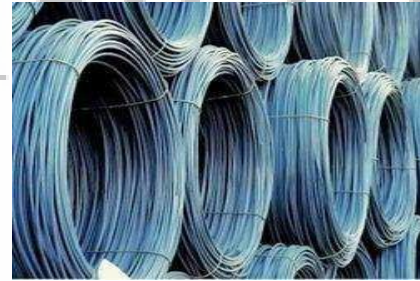
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Supply Condition	As Cast
Size	100, 120, 130, 140, 150, 200, 250 mm in square billets. In square billets blooms can be supplied as per mills production program
Steel Grades	As per customer specification for wire rod, bars and rebars making
End Application	For rerolling into rebar, wire rods, sections
IS Standards	IS 2830 IS 2831 IS 2100 IS 8502 IS 8951 IS 8952 IS 14650
	General structural purpose and ordinary purpose Steel Billets, bars and section for Boilers Steel Billets, blooms, Ingots for production of spring, rivets, screws Steel Billets, blooms, ingots for production of High carbon wire rods Steel billets, blooms, ingot for production of Mild steel wire rods Carbon steel cast billets, blooms, ingots and slabs for re rolling purpose

Wire rods and round bars



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Dimensions and supply condition of wire rods and round bars

Wire Rods

Size	5.5 to 34 mm diameters
Diameter tolerance	As per standards
Out of roundness	As per standards
Coil weight	2.2 MT max
Supply Condition	Hot rolled, Control cooled, spherodized annealed, Pickled, Phosphated

Hot rolled round bars and round corner square

Hot rolled bars	20 to 500 mm
Round corner square	75 to 180 mm
Bundle weight	As per weight
Supply condition	Hot rolled, Normalized, Forged as rolled

Wire rods and Bars Grades

Category	Applications	Indian Standards	Popular Steel grades	JIS Standards	Indian Wire Standards
Low carbon steel	Binding wires, cable armor wires, fasteners, fencing wires, mesh wires (IS 7887 wires)	IS 1570 C04 TO C30, IS 2255, IS 7887	SAE1006/SAE1008/SAE1010/SAE1012/ SAE1015/SAE1018/ SAE1020/SAE1025/SAE1030		IS 279 GI wire for telephone, IS 280, IS 7887, IS 1673, IS 1812, IS 2879, IS 3975, IS 4224, IS 8510, IS 10794
High carbon steel	Spring wires, spoke wires, tyrebead wires, tyre cord wires, acsr wires,PC wires	IS 1570 C35 to C113 (IS 7904 standard)	SAE1035,SAE1040,SAE1045,SAE1050,SAE1055,SAE1060,SAE1065,SAE1070,SAE1075,SAE1080	SWRH42 TO SWRH82B	IS 1835, IS 2589, IS 4223, IS 4454, IS 4824, IS 6902, IS 8564, IS 8565, IS9962, IS 12262
Alloy steel	Fasteners, Automotive applications, ball bearing wire, free cutting steel	IS 1570 various grades as per list (ISO 7283 for bright bars manufacturing)	EN1A, SAE10B21,SAE15B25, SAE1541,SAE4140,SAE52100		IS 3431, IS 3885, IS 6967, IS 7557, IS 9550, Bright bars

Special Grades wire rods and round bars



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Special steel wire rods and Black Bars (Round & RCS)		
Carbon steel	JIS S25C, JIS S45C, JIS S48C, JIS S53C, EN8D, SAE 1035, SAE 1050, CK45	IS 11169
Alloy steel	SCM 415H, SCM 420H, SCM 453H, SCR 420H	IS 5517
	16MnCr5, 20MnCr5, 41Cr4, EN18, SAE4130, SAE5130, SAE8620, EN24, EN353, 15CrNi6, 18CrNi8, 42CrMo4, EN19	IS 4367 and IS 11169 IS 4432
Spring steel	SAE9245, 54SiCr6, SUP12, SUP9, SUP7, SUP12V 50CrV4 and all high strength spring steel	IS 3195 and IS 3431
Bearing quality	SAE52100, 100Cr6, 100CrMnSi6, SUJ2, S53CG, C56E2	IS 4398
Free cutting	SAE12L14, 9SMnPb28, 11SMnPb30, SUM24L, EN1AL 11SMn30, EN1A, SAE 1144, and medium carbon leaded Resulphurised Steel	IS 2073 IS 1570
Micro alloyed	JIS S45CSIV, 38MnV56, 27MnS1V56, D38SV55	
Special Steel Cold Heading Quality Wire Rods		
Low carbon	SAE 1006, SAE 1008, SAE 1010, SAE 1015, SAE 1018	IS 1570 C04 to C20
Low carbon boron	10B21, 15B25, 10B33, 19MnB4, 10B35	IS 11169
Medium carbon	SAE 1541, 15B41, 51B37	
Alloy Steel	SCM 435, SAE 4135, SAE 4140, SAE 8640, SAE 5140, 41Cr4	
Electrode Quality Wire Rods		
	ER70S2, ER80SG, ER90SG, EA 3, ER 70S6, EH10K, EH14	IS 814

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Rebar



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Size	6 to 40 mm							
Specifications								
IS Standards	British Standards	American Standards	Canadian Standards	Brazilian Standards	Japanese standards	European Standards	ISO Standards	Chinese Standards
IS 1786 Fe415 to Fe600 Grade	BS 4449	ASTM 615	CAN/CAS G30	NBR 7480	JIS G3112	EN10080	ISO 6935	GB 1449
No. of bars guaranteed per bundle as per customer requirements								
Making and Certification	With all necessary approvals and as per customer's requirements and importing countries standards with prior agreement							

Steel Section



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Indian Standard IS 808 for dimensions and weights for different sections

Sr.no	Section	Size range as per IS 808
1	Beams	MB100 – MB600
2	Junior Beams	JB150 – JB225
3	Light Beams	LB75 – LB600
4	Wide Flange Beams	WB150-WB600
5	Columns	SC-100 to SC-250
6	Heavy Weight Columns	HB 150 – HB 450
7	Channels	JC 100 – JC 200 LC 75 – LC 400
8	Parallel Flange Channels	MCP 75 – MCP 400
9	Equal Angles	20 x 20 x 3 to 200 x 200 x 25
10	Unequal Angles	30 x 20 x 3 to 200 x 150 x 20



Steel grades can be as per IS 2062, EN10025, ASTM A36 as per customer requirements