





Arven steel co.











ASC strives to create

new generation of unparalleled

quality products supply in order to upgrade every
aspect of life in a world built up upon its durable steel products.

As the largest integrated steel producer of MENA (Middle East & North Africa) region, ASC's production output is consisted of different flat steel products including Steel Slabs, hot and cold rolled sheets and coils, pickled coils, tinplate sheets and coils, galvanized coils and pre-painted coils. These products are strictly produced in accordance with domestic and international standards to meet the needs of vaious industries such as: automotive, home appliances, pipe making, pressure vessels, foodstuff, chemical material and medical packing, construction, transportation, naval industries, heavy metal equipment, etc.

ASC's corrosion resistant hot dip galvanized coils are widely used in various industries such as machinery manufacturing, automotive, home appliances industry, construction and metal industries. By processing hot dipped galvanized strips in pre-painted steel production unit, ASC improves their surface appearance to a considerable degree in order to be color coated to enhance life span of galvanized steel by at least 1.5 times, which will greatly reduce environmental impacts as a green product. MSC's pre-painted steel has wide range of usages in construction industry, home appliances industry, and everyday life different end uses.

Direct

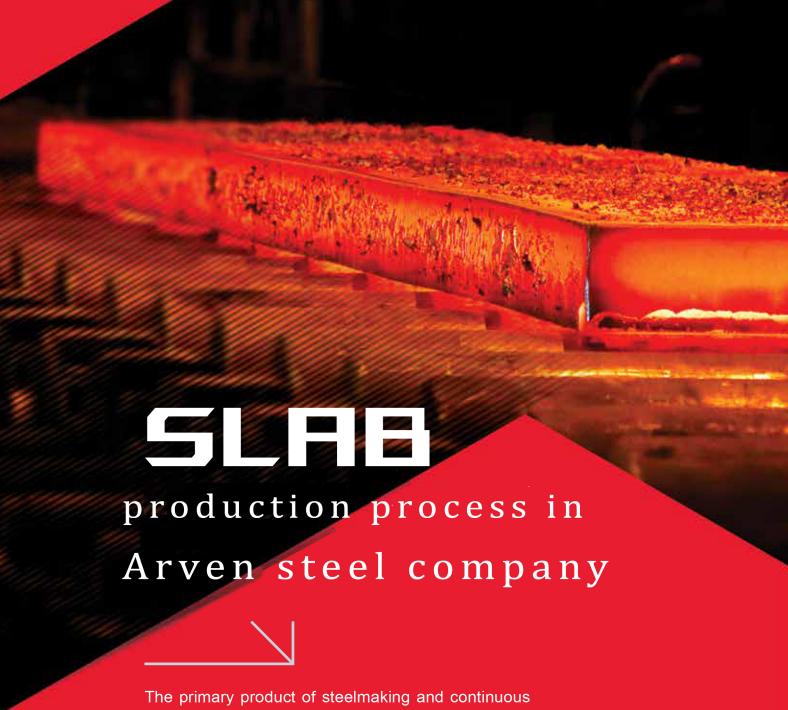
REDUCTION plant

After separation of fine grains, cooked pellets enter
Midrex furnaces and reducing gases, consisted of CO
(Carbon monoxide) and H2 (and hydrogen) which are resulted from
decomposition of methane, are blown into the furnace. The reducing
gases combine with the oxygen in pellets and convert into carbon dioxide and water vapor. Having passed through the reduction process,
pellets turn to sponge irons and are sent to Steelmaking plants
after being sorted. Meanwhile, fine sponge irons are transferred to the briquetting unit, where they are converted
into briquettes and sent to the steelmaking zone
along with the sponge irons.

Arven steel company



- 1 Material transportation
- 2 Electric arc furnaces
- 3 Secondary metallurgy unit and ladle preparation
- 4 Continuous casting machines
- 5 Slab preparation area



The primary product of steelmaking and continuous casting plant is steel slabs. Slabs are either sold to the domestic and foreign markets or are supplied to the hot rolling plant. Steelmaking and continuous casting plant is consisted of various sections such as scrap yard, material charge unit, electric arc furnaces, secondary metallurgy, degassing (RH TOP-DH), desulfurization (DS), continuous casting plant, preparation, slabs cooling and refractories. The annual capacity is up to 7.2 million tons of slabs which the majority is supplied to the hot rolling mill and the rest are directly sold to the market.



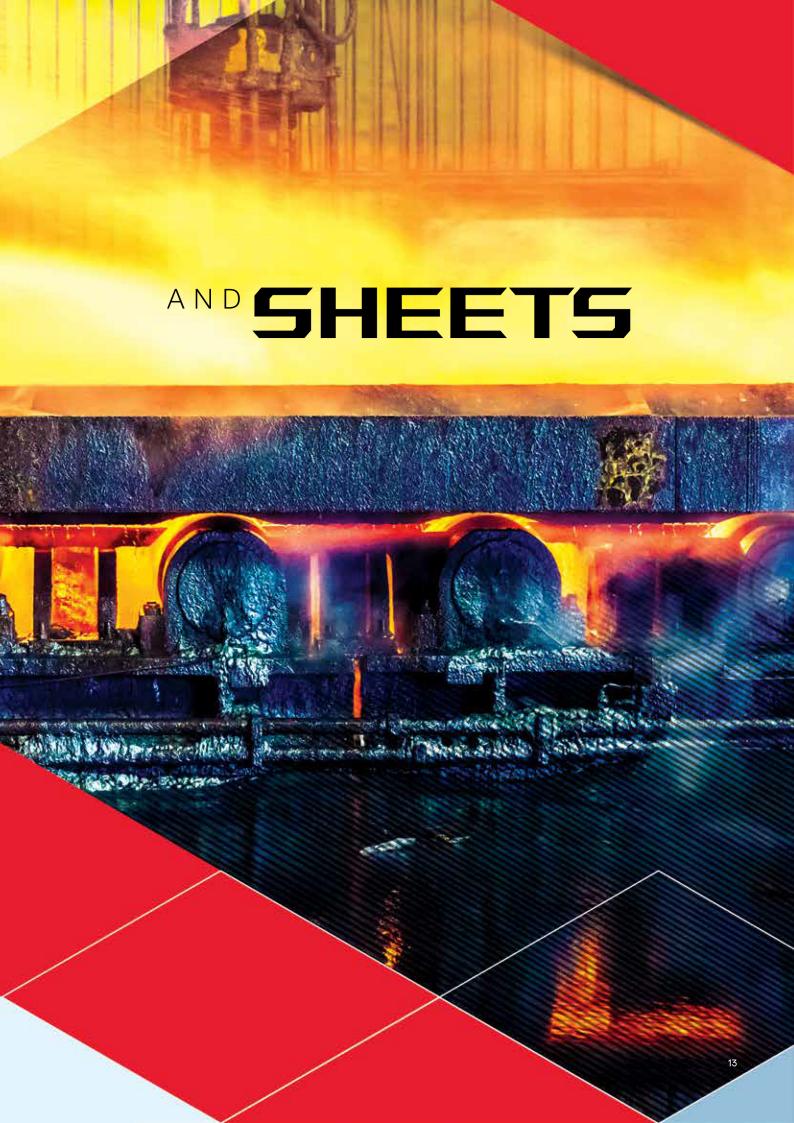
S	pec	cific	cati	ons	of s	slabs

Length	4.5 to 11.8 meters
Thickness	200, 250, 300 mm
Width	650 to 1975 mm
Carbon-Manganese steel	Maximum carbon 0.5 and maximum manganese 1.5 percent
Manganese. Silicon- Carbon steel	Such as carbon-manganese steels with a maximum of 0.7% silicon
Low alloy steel	Contains elements such as chromium, nickel, vanadium, niobium
Hydrogen	Possibility of reducing hydrogen up to 3ppm using RH TOP equipment
Sulfur	Ability to reduce sulfur up to 5PPM using DS equipment

Production process of

HOT ROLLED COILS

Arven Steel Company produces hot rolled coils through thermo-mechanical process for sale or consumption by downstream lines in the hot rolling plant. This plant includes four main units of preheating furnaces, hot rolling production lines, roll shop and hot rolling finishing unit. The production capacity of this plant is about 5.2 million tons, about 60 percent of which is marketed and the rest is transferred to the downstream lines of the company. This plant rolls slabs received from the steelmaking plant into hot rolled coils according to the specifications requested by the customer or the downstream lines. The hot rolling production line, which is the central part of this plant, includes vertical descaling stand, roughing stand, finishing stands, coiler and cooling unit. Slabs are transferred to hot rolling plant and after being heated to about 1250 °C in preheating furnaces and de-scaled in the initial and final rolling sections, turn into the coils with the thickness of 1.5 to 16 mm. Width changes within the range of 650 to 1850 mm and coils weights are between 5 and 30 tons. If the produced coils need additional operations such as cutting, skin passing or deviding, they are transferred to the hot rolling finishing unit.

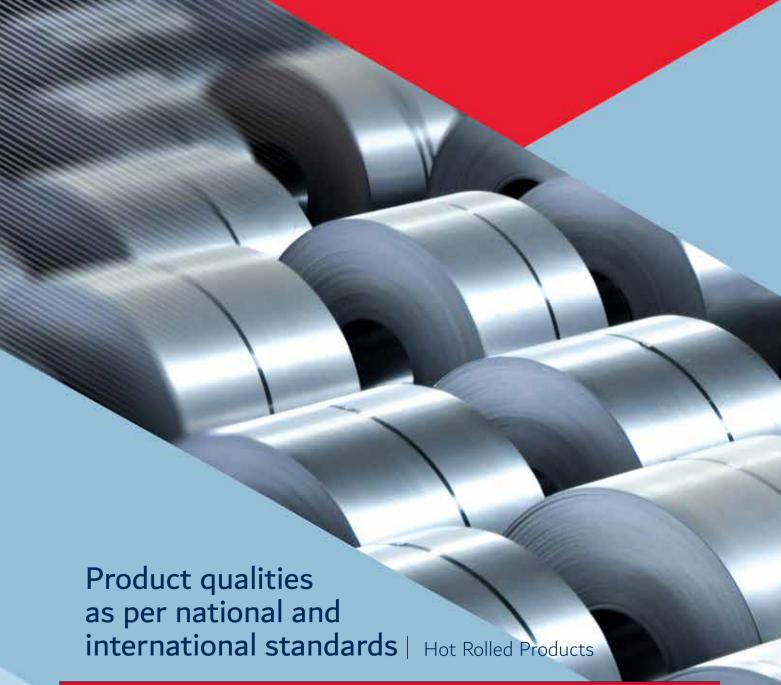


Product qualities as per national and international standards | Hot Rolled Products

Application	Quality		Star	ndard	
Structural, general, and construction applications	St 33, St 37-2, St 37-3, St 44-2, St 44-3 52-3	DIN 17	100.80		
Corrosion resistant construction application	St 52-3 cu3, St37 - 2 Cu3		DIN 17	100.80	
Re-rolling	St 24, PRSt 23, St 22		DIN 16	14.86	Z
Drawing and forming applications	Stw 24, PRStw 23, Stw 22		DIN 16	14.86	
Pressure Vessels	17Mn4 , 19Mn6		DIN 17	155.83	
Car chassis	STE 380 TM, QSTE 380 TM, STE 420	TM	DIN 17	155.83	
Pressure Vessels	9cr Ni cuP 324		DIN 16	14	
Drawing and forming applications	SPHC, SPHD, SPHE, SPHC-B			31-90	
General and structural applications and bridge construction	SS 400, SS 330, SS 400 B			01-87	JIS
Tube, pipe manufacturing	SPHT1, SPHT2, SPHT3, SPHT4			32-90	7
Drawing and forming application	SAPH 310, SAPH 370, SAPH 400, SAPH 440		JIS 313	32-90	
Auto parts	SNCM 220		JIS 410	03	
Car rims	SNCM 220		JIS 313	34	
Structural, Drawing applications, re-rolling	1006 - 1008		SAE/A	ISI	Щ Щ
General construction application	1030,1020,1018,1017,1016,1015,1012,101, 1050 ,1022			ISI	SA
Ship building, marine structures	GR.A	RINA		RINA	
Fluid transfer tubes	GRB, X42, X46, X52, X60, X52MS API5L2		.004	API	

Product qualities as per national and international standards | Hot Rolled Products

Application	Quality	Standard	
Drawing, construction	A 569, A 621, A 622	ASTM	
General application and construction	(A 572 GR.42,50),(A283 GR.A,B,C,D),(A573 GR.58,65,70)	ASTM	ASTM
Pressure vessels and containers	(A285 GR. C),A 414, A 515, A 516, A 204 GRA	ASTM	Ā
General, construction, structural application	40, 43, 50 (A,B,C,D,EE)	BS 4360-86	
Drawing and deep drawing	HR 1, HR2, HR 3, HR 4	BS 1449 PART 1.83	BS
Pressure vessels	161 (360 A, 400 A, 430 A)	BS 1501	
Drawing - general applications	DD11 , DD12 , DD13 , DD 14	EN 10111.96	
General, construction, structural applications	(S235, S275, S355) (JR, JO, J2, K2)	EN 10025.93	
Structural applications and trailer chassis	S315 MC, S355 MC, S420 MC, S500 MC, S460 MC, S550 MC	EN 10149 - 96	Z
Petroleum gas storage tanks	P275NL2, P355NL2, P460NL2, P460NJ2	EN 10028 - 3	H N
Corrosion resistant construction applications	S355J2W, S355JOWP	EN 10025 - 5	
Pressure vessels	P235 GH, P265GH	EN 10028 - 2	
General and construction applications	K235-3 / K275-3 / K355-3	3694	ndard
General applications, construction profiles	Hot Rolled 1	3693	Iran national Stanc
Building profiles, drawing	Hot Rolled 2	3693	natio
Deep drawing	Hot Rolled 2	3693	Iran



Application	Quality	Standard
Resistant to atmospheric corrosion	IRACOR - 1, IRACORTEN A-HOT	MSC - STD
Chassis and car interior parts	IRAFORM - 275	MSC - STD
Chassis and car interior parts	IRAFORM - 330	MSC - STD
Chassis and car interior parts	IRAFORM - 360	MSC - STD
Chassis and car interior parts	IRAFORM - 420	MSC - STD
Chassis and car interior parts	IRAFORM - 490	MSC - STD

Applications of

HOT ROLLED

Products Structural, general, and construction

Corrosion resistant construction

Re-rolling

Drawing and deep drawing

Pressure Vessels

Car chassis

Bridge construction

Pipe manufacturing

Chassis, traction wheels

Oil and gas pipes

Shipbuilding, marine structures

Qualities according to MSC and PSA standards

Minimum and maximum weights of Arven Steel Company products

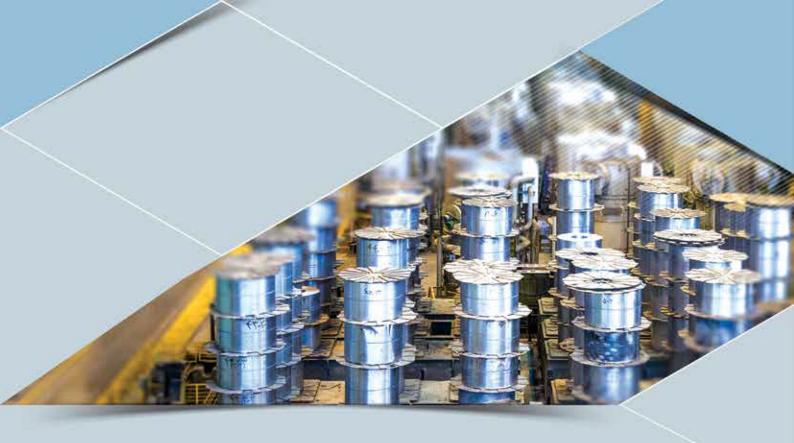
Hot Rolled Products

Width (mm)	Mother Coils (ton)	One cut (ton)	Two cuts (ton)		
600-740	3-12	3-6	1.5-4		
741-840	4.5-13.5	4-6.5	2-4.5		
841-940	5-15	4.5-7.5	5-5.2		
941-1040	6-16.5	5-8	3-5.5		
1041-1140	6.5-18	4-9	3.5-6		
1141-1240	7-19.5	6-9	4-6.5		
1241-1335	7.5-21	6.5-9.5	4.5-7		
1336-1435	8-22.5	8-11	4.5-7.5		
1436-1535	8.5-24	8.5-12	5-8		
1536-1630	9.5-25.5	9-12.5	5.5-8.5		
1631-1730	10-27	10-13.5	6-9		
1731-1850	10.5-29.5	10.5-14.5	6.5-10		



Product qualities as per national and international standards | Hot Rolled Pickled coils

Application		Quality		Star	ndard	
Structural, general and construction application	St	: 33, St 37-2, St 37-3, St 44-2, St 44-3	1	DIN	17100	_
Drawing	St	w 22, RRs tw 23, Stw 24		DIN	1614	T N
Car chassis, auto structure (heavy)	М	22		DIN	2395	Ă
Re-rolling	St	t 22, St 23, St 24		DIN	1614	
Drawing, drawing- enamelable	SF	PHC, SPHD, SPHE		JIS G	3131	
General application	SS	S 330, SS 400		JIS G	3101	,,
Gas tank	so	G 255		JIS G	3116	SIC
General application. Pipes		SPHT 1, SPHT 2, SPHT 3, SPHT 4		JIS G	3132	
Car chassis, rims	SAPH 310, SAPH 370, SAPH 400, SAPH 44		PH 440	JIS G	3113	
General application, stretch, re-roll	ling 1008 ,1006		SAE	/AISI	SAE	
General application, construction		1010 - 1012 - 1015 - 1010 - 1017	SAE	/AISI	AIS	
Car chassis, rims	HF	R 37.23, HR1, HR2, HR3, HR4	BS	1449	BS	
General application	A 283 Grade (A,B,C,D)		AST	M		Σ
Drawing	A 621, A 622		AST	M		AST
Gas tank, pressure vessels		A 414 Grade (D,E)		М		
Petroleum gas tanks		INS 343		S/STD	MSC	2
General application, suitable for galvanized coating.		S 235 JR, S 275 JR, S355 JR		10025.93	3	Z
General stretching application	DD11, DD12, DD13 EN		EN 1	10025.93	3	
Car reinforcement parts	НЕ	E275, HE335D, HE390D, HE420	B 53 3316		PSA	



Minimum and maximum weights of Arven Steel Company products | Hot Rolled Pickled coils

Width (mm)	Mother Coils (ton)	One cut (ton)	Two cuts (ton)
600-690	6.7-13.1	3.3-8.1	2.2-4.4
691-790	8.1-14.6	4.1-7.3	2.7-4.9
791-890	9.6-16	4.8-8	3.2-5.4
891-990	11-17.5	5.5-8.8	3.7-5.8
991-1090	12.5-19	6.3-9.5	4.1-6.3
1091-1190	14-20.5	7-10.3	4.7-6.8
1191-1290	15.5-21.9	7.7-10.9	5.2-7.3
1291-1390	17-23.4	8.5-7.11	5.6-7.8
1391-1490	18.4-25	9.2-12.5	6.1-8.4
1491-1590	20-26.7	10-13.4	6.6-8.9
1591-1680	21.4-28	10.7-14	7.1-9.5

COLD ROLLING MILL

Some of Hot rolled coils are pickled to produce cold rolled coils and coated products in the downstream lines. Hot rolled coils are passed through pickling lines for removing their oxide scales. After that they are passed through continuous tandem mill and two-stand reversing mill to reduce their thickness. In the next stage for recovering the metallurgical structure of the strip, removing waves and creating a surface hardness, coils pass through annealing and continuous rolling processes respectively. At the final stage, they are converted in cold rolled sheets and coils. Some of the products of tandem mill and two-stand reversing mill are converted into galvanized, color coated, and tin-plated products and sent to the customers.

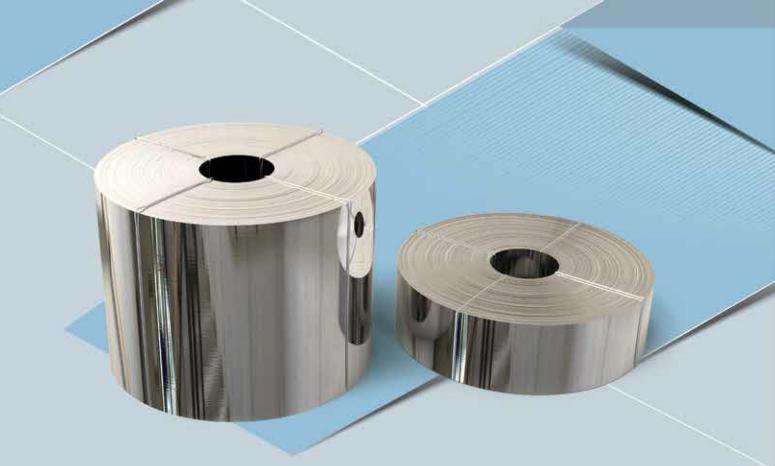






Product qualities as per national and international standards | Cold rolled products

Application	Quality	Standard	
General application, normal drawing	St 12	1623.1.72	
Deep drawing	RRST 13	1623.2.86	
Ultra deep drawing	St 14	1623.1.72	
General application, construction	St 37-3 G, St 44 3-G	1623.2.86	
Suitable for enamelling	EK 2, EK 4	1623.3.87	
General application, normal drawing	SPCC	JIS G 3141.90	
General application. Deep drawing	SPCD	JIS G 3141.90	SI
General application, ultra deep drawing	SPCE	JIS G 3141.90	
Packing straps	TASMEH 650, TASMEH 850	MSC.STD	MSC
Deep drawing	DC04-K01	MSC.STD	STD
General application, ultra deep drawing	CRSP 1	BS 1449-1	9-1
General application, deep drawing	CRSP 3	BS 1449-1	1449-1
General application, normal drawing	CRSP 4		BS
General application, normal drawing	DC01	EN 10130.96	
Deep drawing	DC03	EN 10130.96	
Ultra deep drawing	DC04, DC05, DC06	EN 10130.96	Ш Z
Electrical application	M800-65D, M1000-65D, M1200-65D	EN 10126-95	
Suitable for vehicle body	HC180B-HC220B	EN 10268	
Car reinforcement parts	E275D, E335D, E390D	B 53 3316	B53
Normal drawing	1008, 1006	SAE / AISI	SAE

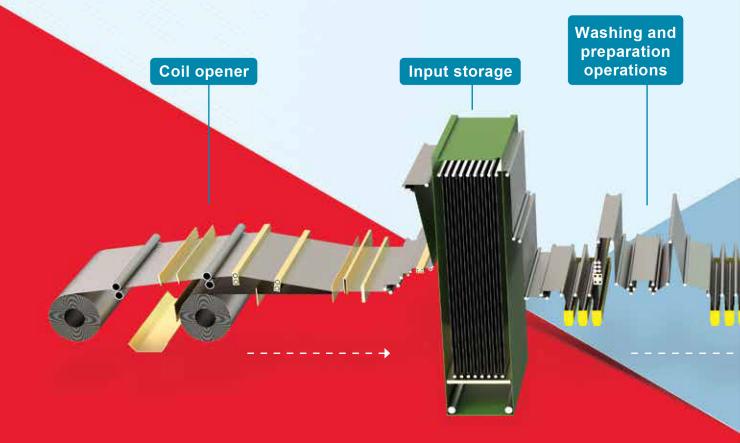


Minimum and maximum weights of Arven Steel Company products

| Cold rolled products

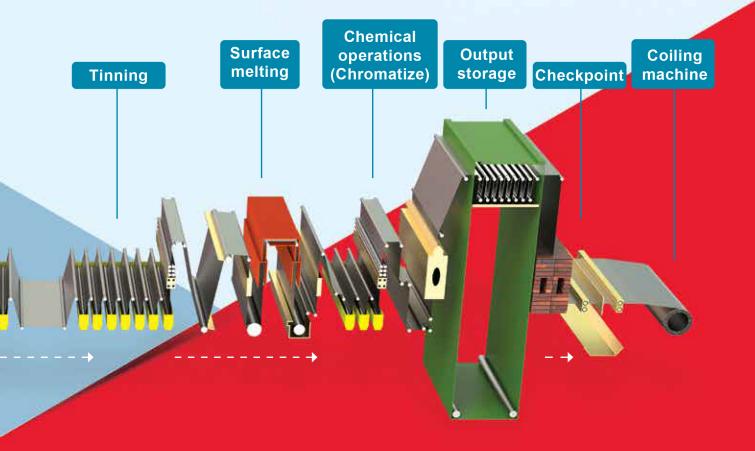
Width (mm)	Mother Coils (ton)	One cut (ton)	Two cuts (ton)
600-690	4-11.5	3.5-5.6	2.3-4.8
691-790	4.6-12.8	4-6.5	2.7-5.5
791-890	5.3-14.5	4.6-7.3	3-5.8
891-990	5.9-16	5.1-8	3.3-6.1
991-1090	6.6-17.5	5.6-8.7	3.5-6.3
1091-1190	7.3-19	6.2-9.6	3.6-4.4
1191-1290	7.9-20.6	6.7-10.4	4-6.9
1291-1390	8.6-22.4	7.2-11.2	4.3-7.4
1391-1490	9.3-24	7.8-12	4.6-8
1491-1590	9.9-24.8	8.3-12.4	5-8.2
1591-1680	14-25	8.8-13	5.9-9.1

TIN-PLATING



Tin Plating Production Line in Arven Steel
Company is designed based on acidic electrolyte
method using ferrostan solution. In this method, coils enter
the electrolyte solution bath after passing through electrolytic washing
bath and rinsing with water. While the tin bar is connected to the positively
charged anode electrode and the metal part is connected to the negatively
charged cathode electrode, tin is dissolved into the electrolyte solution and
deposit to the cathode which is both surfaces of the steel strip.
In this line, it is possible to coat products in different thicknesses on both
surfaces of the strip. After tin coating operation, sheet is heated in muffle
furnaces to a temperature above the melting point of tin (232 ° C) and then
cooled immediately in a bath, which in addition to increasing the adhesion

production line in Arven steel company



of tin, causes the brightness of the surface.

To prevent further oxidation and discoloration of the strip surface during the time stored in warehouse, tin-plate strip is passed through a chemical operation line to be covered with a layer of Chrome (cr). It also increases the adhesion of paint and soldering quality. At the end of this stage and after rinsing the steel strip with water and drying with the hot air, electrostatic oiling is performed to protect the sheet from any damage during packaging and transportation. The protective oil is applied in a very thin layer on both surfaces of the strip. For continuous operation, two looping towers are provided at the entry and exit sections of the line. Products of this line are offered to the market in forms of coils or sheets.

Product qualities as per national and international standards | Tin-Plated sheets

Application	Quality	Standard	
Battery cover, oil filter, general application	T2	ASTM A 623 M/92	
Body, top and bottom of the can, paint containers, oil can, spray can, general application	Т3	ASTM A 623 M/92	ASTM
Body, top and bottom of the can, spray can, general application	T4, T5, DR8, DR9	ASTM A 623 M/92	
Oil filter, general application, Battery cover	SPTE(T2)	JIS G 3303.87	
Body, top and bottom of the can, paint containers, oil can, spray can, general application	SPTE(T3)	JIS G 3303.87	SIC
Body, top and bottom of the can, spray can, general application	SPTE(T4), T5, DR8, DR9	JIS G 3303.87	Í
Oil filter, general application	T52	EN 10203.91	
Oil filter, general application	T57	EN 10203.91	Z
Body, top and bottom of the can, paint containers, oil can, spray can, general application	T61, T65, DR550, DR620	EN 10203.91	"

Specifications of tin-plating line in Mobarakeh steel company

Production Capacity (Mt)	103000
Thickness of the sheet (mm)	0.16 - 0.4 mm
Width of the sheet (coil) (mm)	600 - 1050 mm
Width of the sheet (pack) (mm)	600-1000mm
Inner diameter of the coil (mm)	420 mm
Outer diameter of the coil (mt)	2000 mm
Weight of the coil (mt)	7.2-8
Weight of the package(mm)	1-2
Tin coating weight (one sheet surface) (g/m2)	2.8-11.2 gr/m ²
Oil layer (g/m2)	3.9-2.5 gr/m ²
Surface passivation (g/m2)	1-3 gr/m ²

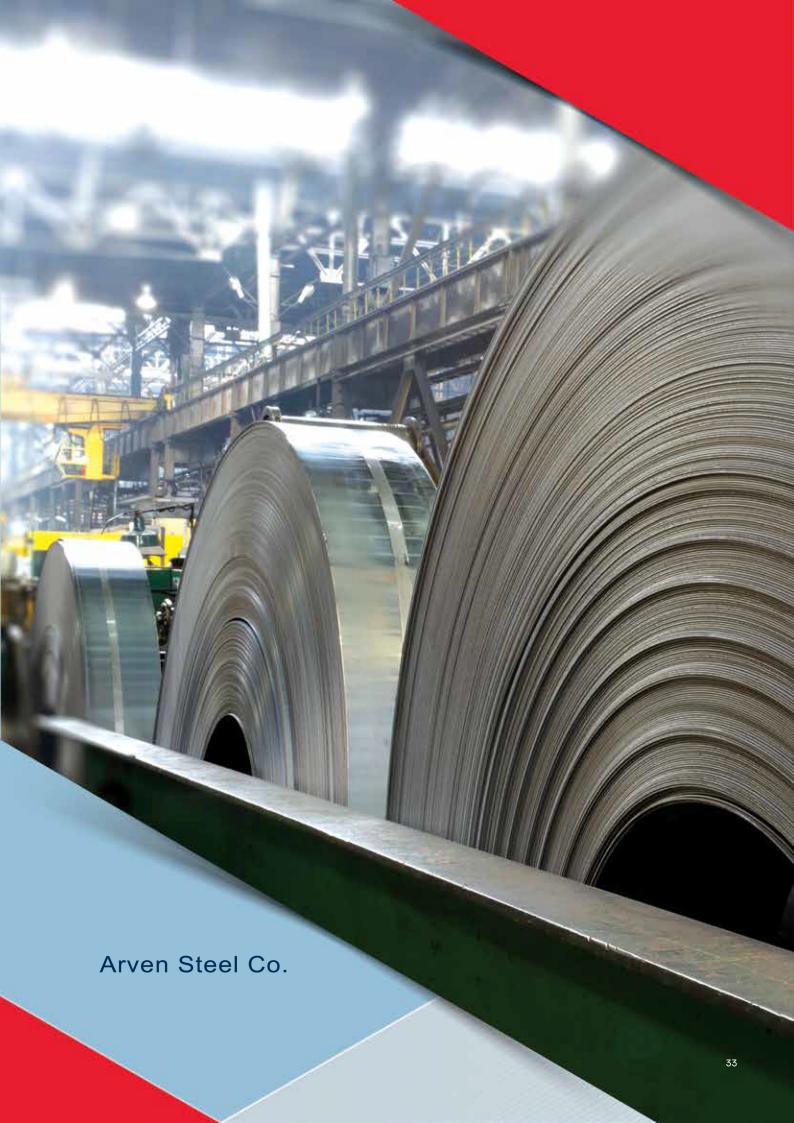
Equivalent qualities of tin-plated sheets produced in different standards | Tin-Plated sheets

Application	Quality		Standard	
	EN 10203/91	JIS G 3303/87	ASTM A 623 M/92	
Battery body, top of spray can	T52	SPTE(T2)	T2	
Different types of tin cans, body of two-piece can	T57	SPTE(T3)	Т3	SR
Body, top and bottom of three piece can	T61	SPTE(T4)	T4	
Body, top and bottom of three piece can, head of easy open can	T65	SPTE(T5)	T5	
Body, top and bottom of three piece can, head of easy open can	DR550	DR8	DR8	~
Body, top and bottom of three piece can, head of easy open can	DR620	DR9	DR9	۵

Minimum and maximum weights of Arven Steel Company products

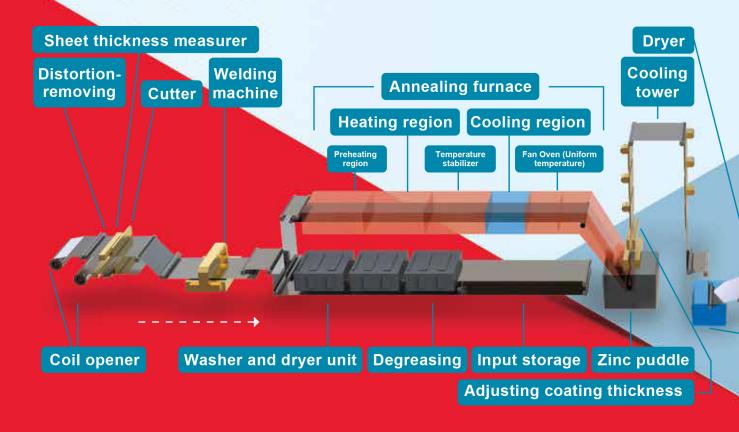
Tin-Plated Coils

Width (mm)	One cut (ton)	Two cuts (ton)
600-690	2.7-5	1.8-3.6
691-790	3.2-6	2.1-4
791-890	3.5-6.7	2.4-4.6
891-990	4-7.5	2.7-5.1
991-1100	4.5-8.4	3-5.6



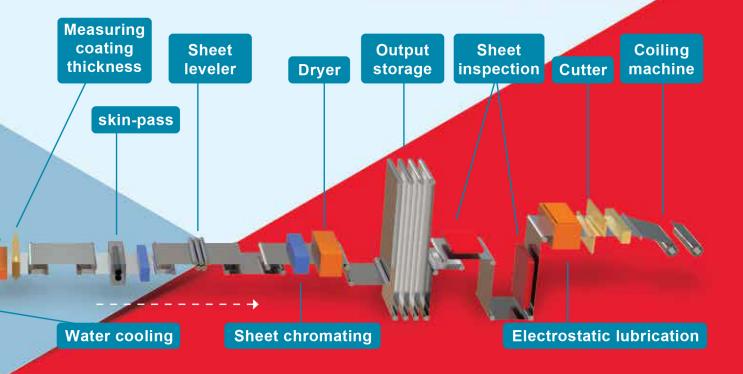
Production

GHLVHNIZED



Galvanized coils are produced at Mobarakeh Steel Company using hot immersion method. The advantage of this method over other methods is cost-effectiveness, the possibility of creating high thickness of coating, high strength and good adhesion of zinc coating to steel strip. Coils of the cold rolling line (Tandem Mill) are welded together at the beginning of the galvanized line and charged as a continuous strip. Then, the surface of the strip is degreased with alkaline substance, brushed and rinsed with water, and finally dried with hot air. The cleaned coil enters the annealing furnaces with a protective atmosphere. The strip is annealed in three stages of preheating, heating and soaking, according to the application of the annealed product. Then cooling system adjusts strip temperature for entering molten zinc bath in which a thin layer of zinc is applied on both surfaces of the strip. Immediately after leaving the zinc bath, the air jet strikes the surface of the strip and adjusts the thickness

Products in Arven steel company



of coating. In the next stage, size of the spangles on the surface is controlled by adjusting the cooling cycle. Temperature of the strip is reduced by the air stream and then water sprayed. Steel strip enters the cold water tank, and then is dried through air blowing. Finally, the thickness of coating is controlled by the thickness gauge equipment, and the surface smoothness and the desired roughness are applied on the sheet by skin pass rolling and correcting equipment. In order to prevent white rusting on galvanized strip, during its storage, chromate treatment is performed on it, i.e. a thin layer of chromium-containing solution (CR) is deposited on the surface of the strip and then it is dried. After inspecting the strip, if the customer demands, the protective oil is sprayed on the surface of the strip by electrostatic oiling machine. To prevent line stoppage, at the entry and exit sections two strip accumulators are designed. Galvanized coils are shipped to the customers after packaging

Product qualities as per national and international standards | Galvanized coil

Application	Quality	Standard
General application	Fe P02 G	EN 10142.91
Drawing	Fe P03 G	EN 10142.91
General application	DX 51 D	EN 10346(09)
Drawing	DX 52 D	EN 10346(09)
Construction	S 280 GD	EN 10147
General application	SGCC	JIS G 3302.94
Drawing	SGCD	JIS G 3302.94
Construction	SGC 400	JIS G 3302
General application	A 526	ASTM
Lock forming	A 527	ASTM
Drawing	A 528	ASTM

Minimum and maximum weights of

Arven Steel
Company products

Galvanized coil

Width (mm)	One cut (ton)	Two cuts (ton)
750-790	4-6.3	2.7-4.1
791-890	4.6-7	3-4.6
891-990	5.1-7.7	3.4-5.1
991-1090	5.6-8.4	3.7-5.6
1091-1190	6.2-9.2	4.1-6.1
1191-1290	6.7-10	4.4-6.6
1291-1350	7.2-10.7	4.8-7.1

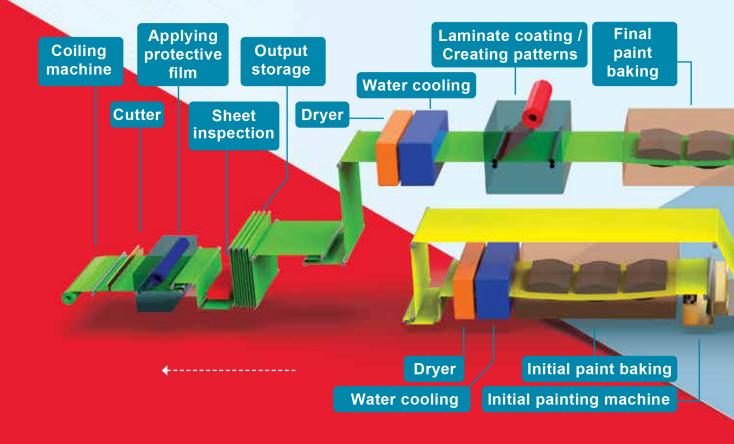
Specifications of hot-dip galvanized line in Arven steel company

Production method	
Type of input strip (mm)	Hot Dip galvanized
Thickness of the strip (mm)	0.3 - 2 mm
Width of the strip (mm)	750 - 1350 mm
Inner diameter of the output coil (mm)	508 - 610 mm
Outer diameter of the output coil (mm)	900 - 2000 mm
Weight of output coil (Mt)	3 - 8.23
Galvanized coating weight (g/m2)	100-350 for Bothside
Oil layer (g/m2)	2 - 0.5
Output product	CQ, DQ
Annual Capacity (Mt)	200 .000
Surface appearance quality	commercial, ImProVed

Standards and qualities of Galvanized Products

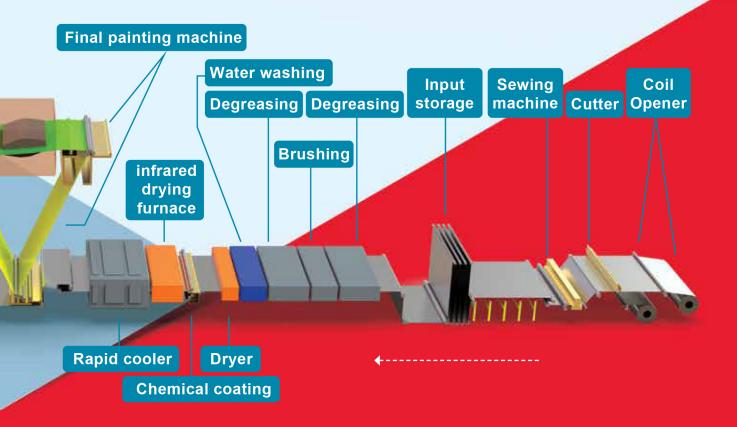
Application	Quality Stand			Standard
Standard/ Quality	ASTM	JIS-G3302	EN10147	EN10142
Commercial	A526(90)	SGCC	-	DX51D
Lock forming	A527(90)	-	-	-
Drawing	A528(90)	SGCC	-	DX52D
Construction	-	-	S280GD	-
	-	SGC400	-	-

COLOR CORTING LINE



Color coating line in Arven Steel Company is located along the galvanizing line and is designed as a coating line in which application of paint is done by rubber rolls. Advantages of this kind of line are high speed, low paint consumption and environmental compatibility. In this method, galvanized coil or skin-passed cold rolled coil continuously enter into the preparation section. At this stage, at first the degreasing solution in appropriate temperature is sprayed on the upper and lower surface of the sheet. Then the special roller brushes surfaces of the strip and washes them with warm water. This process is done twice and the strip is dried through blowing hot air. At the end of this stage, to improve the corrosion resistance and increase the adhesion of the paint to the surface of the strip, a suitable chemical substance is applied on both surfaces of the strip and dried at the appropriate temperature. Performing this step prevents the coated paint from scaling during subsequent forming processes. The strip is then sent to the paint coating section.

in Arven steel company



In this part, the primary paint (primer), made of polyester or epoxy, is applied on both surfaces of the strip by rubber rolls.

After drying the applied paint in the oven, the strip is cooled, and the final paint, made of polyester, polyvinylidene fluoride, epoxy, poly Vinyl chloride and polyurethane are applied on strip surfaces by rubber rolls, and the final drying operation is performed in finishing oven.

In the next step, the product is carefully inspected by quality control team. In order to prevent any damage to the paint, polyethylene or polypropylene layers are applied on the surface of the strip and the final product is supplied to the market after packaging. Using an equipment called embosser laminator, it is possible to apply PET and PVC film on the sheet surface as the final surface of the product (instead of the final paint layer). Using other equipment called strippable film applicator, it is possible to apply protective layers on the surface of paint products, which can be removed while using the strip.



Product qualities as per national and international standards | Color coated coil

Application	Quality	Standard	
Construction application in normal and humid conditions	CGCC	JIS G 3312.94	<u>S</u>
Drawing application in normal and wet conditions	CGCD	JIS G 3312.94	5
Construction application in normal and humid conditions	DX51D	EN 10346(09)	z
Drawing application in normal and wet conditions	DX52D	EN 10346(09)	Ш

Minimum and maximum weights of Arven Steel Company products

Color coated coil

Width (mm)	Mother Coils (ton)	One cut (ton)	Two cuts (ton)
750-790	3.3-6.2	2.2-4.1	1.7-3.2
790-890	3.8-7	2.5-4.6	1.8-3.5
891-990	4.1-7.7	2.7-5.1	2.2-3.8
991-1090	4.7-8.4	3.1-5.6	2.5-4.1
1091-1190	5.1-9.2	3.4-6.1	2.8-4.5
1191-1290	5.5-10	3.7-6.6	3.2-4.8
1291-1300	6-10.7	4-6.7	3.5-5.1

Specifications of color-coated steel sheet production line of Arven Steel Company

Capacity	100,000 Ton/year
Production method	Galvanized coil, skinned cold-rolled coil
Sheet thickness	0.35 - 1.5 mm
Sheet width	750 - 1300 mm
Inner diameter of output coil	508 or 610 mm
Outer diameter of output coil	900 - 2000 mm
Coil weight	3 to 10 Ton

		Primer thickness	5 microns
	Thickness of final paint	20 microns	
Α	Coated	Primer material	Polyester
	Sheet Final paint		Polyester (high durability)
		Final paint material	Polyvinylidene fluoride
			Epoxy, polyvinyl chloride, polyurethane

B Laminated	Film material	PET film or patterned PVC
Lammateu	PET film thickness	30 microns

Quality of color-coated steel sheet

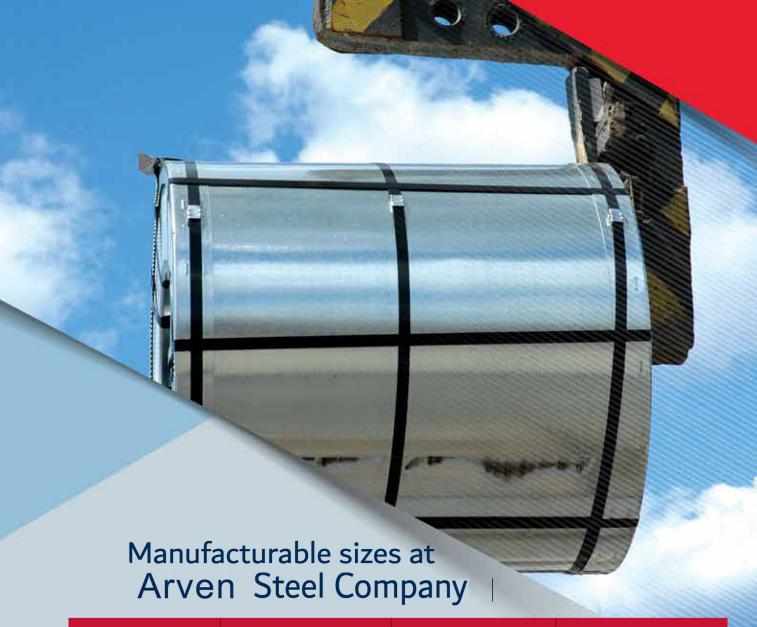
products based on EN10142 standard

Application		Quality
Sheet quality	Application	Sublayer sheet quality (hot dip galvanized steel sheet)
DX51D	Commercial	DX51D
DX52D	Tensile	DX52D

Quality of color-coated steel sheet

products based on JISG3312 standard

Application		Quality	
Sheet quality	Application	Sublayer sheet quality (hot dip galvanized steel sheet)	
CGCC	Commercial	SGCC	
CGCD	Tensile	SGCD	



Product	Thickness (mm)	Width (mm)	Length (mm)	
Hot Rolled coil	1.5-16	600-1850	-	
Hot sheet	1.5-16	600-1850	1000-12000	
Pickled Coil	1.5-5.3	600-1680	-	
Cold coil	0.35-3	600-1650	-	
Cold sheet	0.35-3	600-1540	750-4000	
Tin Plate Coil	0.16-0.4	600-1050	-	
Tin Plate sheet	0.16-0.4	600-1000	457-1206	
galvanized Coil	0.3-2	750-1350	-	
Painted Coil	0.35-1.5	750-1300	-	







Arven Steel Co.





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