

Acciaieria**Arvedi**



hot dip galvanized steel strip



Arvedi
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Acciaieria Arvedi

technological steel



In operation since 1992, it is Europe's first and the world's second mini-mill for the manufacture of flat rolled steel.

The compactness and speed of the production cycle allow extraordinary flexibility and a high level of service. It is a very modern industrial works, which, thanks to its technological, environmental and ergonomic conception, can be defined as a new system for steel manufacturing.

The manufacturing process, based on the innovative Arvedi ISP and ESP technologies (patented worldwide), allows liquid steel from the melt shop to be transformed into ultrathin gauge hot rolled coils of the best quality and at competitive costs in a single, extremely compact cycle.

Acciaieria Arvedi in Cremona produces about 3 million tpy of coils with 1200 employees.

The production mix is directed towards thin and ultrathin gauges (down to 0.2 mm).

The coil is further finished on pickling and hot dip galvanising plants which together process a considerable share of production in order to serve end customers directly.

Production range:
Gauges from 0.2 to 12 mm
Widths up to 1570 mm





Arvedi hot dip galvanized steel strip

The galvanizing lines, among the most recent in Europe, have a capacity of more than 1 Mio tpy and a production range with gauges from 0.2 to 4.0 mm and finishing which includes tension levelling, skinpass and surface protection such as chemical passivation in accordance with standard 2002/95/EC (Rohs) and oiling. The hot dip galvanized steel produced by Acciaieria Arvedi combines the excellent characteristic of protection from corrosion with the guarantee of the quality of the underlying steel.

The strong points of Arvedi steels and their main characteristics

QUALITY

The innovative rolling process allows the manufacture of steels with outstanding characteristics.

SURFACE

Clean and defect-free: suitable for the most demanding uses.

PROCESSABILITY

The solidification process after liquid core reduction allows fine grain homogeneous structures with high cold formability characteristics to be obtained.

CLOSE TOLERANCES

High precision levels of gauge, flatness and crown. The same tolerances as cold rolled products.

HIGH STRENGTH

Our research department has developed a vast range of high strength steels able to satisfy the requirements of the most demanding designers.

RELIABILITY

Repetitive and homogeneous mechanical characteristics for all supplies.

ASSISTANCE

Our technicians are available to study and search for better solutions aimed at the manufacture of end products.

The immediate benefits for the processing industry

SPEED

Delivery times: Maximum 60 days from order.

FLEXIBILITY

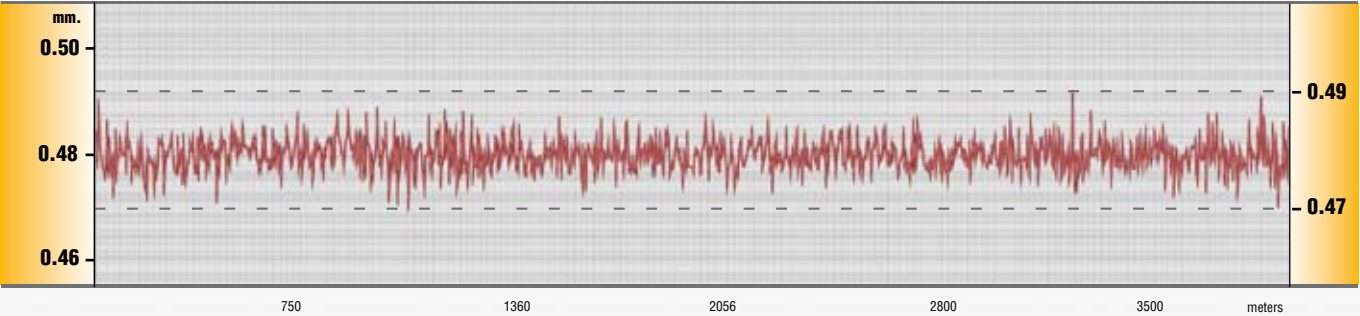
Broad production mix: steel grades and thin gauges (also in substitution of cold rolled strip) available in the various supply states.

SERVICE

Minimum lot: 1 coil
Quality pre-sales and after-sales technical assistance.

Constant gauge for the whole coil lenght

Coil nr. 171000722 width 1500 Th. 0.48 Longitudinal Profile



Zinc coating and surface treatment

Acciaieria Arvedi with its hdg lines can provide a varied range of zinc coating and surface treatment.

SPANGLE		
M	N	SF

SURFACE TREATMENT			
C	O	C+O	AF
Chemical passivation	oiled	Ch+oil	Antifinger

ZINC COATING g/m²	
MIN	MAX
100	600

Thickness Tollerances (ref. EN 10143)

Normal thickness (mm)	Normal tolerances		Close tolerances	
	width ≤ 1200 mm	width 1201 ÷ 1500 mm	width ≤ 1200 mm	width 1201 ÷ 1500 mm
0.20 - 0.40	± 0.05	± 0.06	± 0.03	± 0.04
0.40 - 0.60	± 0.06	± 0.07	± 0.04	± 0.05
0.61 - 0.80	± 0.07	± 0.08	± 0.05	± 0.06
0.81 - 1.00	± 0.08	± 0.09	± 0.06	± 0.07
1.01 - 1.20	± 0.09	± 0.10	± 0.07	± 0.08
1.21 - 1.60	± 0.11	± 0.12	± 0.08	± 0.09
1.61 - 2.00	± 0.13	± 0.14	± 0.09	± 0.10
2.01 - 2.50	± 0.15	± 0.16	± 0.11	± 0.12
2.51 - 3.00	± 0.17	± 0.18	± 0.12	± 0.13
3.01 - 4.00	± 0.19	± 0.20	± 0.14	± 0.15

SURFACE ASPECT	
A	B
NORMAL	SKINPASSED

COIL WEIGHT TONNES	
MIN	MAX
4.5	30

WIDTH mm	
MIN	MAX
50	1520



Arvedi HDG for the construction industry

Acciaieria Arvedi offers many advantages for customers that use hot-dip galvanized structural steels:

- a vast range of coatings (differentiated if needed on the two sides and with up to 600 g of zinc per square metre);
- “tailor-made” strip gauge in conformance with project prescription gauge tolerances, to a maximum of 4 mm;
- quality assurance of the steel below the zinc coating thanks to in-house management of all production phases, from the liquid steel to rolling.



Table of galvanized structural steels

Steel grades	gauge (mm)							
	0.25	0.50	0.75	1	1.5	2	3	4
DX 51								
DX 52								
S 220 GD + Z								
S 250 GD + Z								
S 280 GD + Z								
S 320 GD + Z								
S 350 GD + Z								

Arvedi HDG for the car industry

Acciaieria Arvedi has obtained a leading role both in Italy and Europe in the high strength steels sector - HSLA (High Strength Low Alloy) - and in the new-generation steels - AHSS (Advanced High Strength Steel) - such as Dual Phase. Since 2006 the high strength steel range as a whole has constituted the general core of products sold. High strength steels are aimed mainly at the car industry which is increasingly committed to building safer, lighter and more ecological cars. This position of excellence has

been achieved thanks to a precise strategy which, starting from investments in the integrated cast-rolling lines based on avant-garde technology - ISP/ESP - have led to the decision to pursue the aim of quality specifically addressed to the high strength steels segment; with their combination of excellent characteristics for processing and welding and with lower costs due to a lower ferroalloy content, there is enormous scope for their application in the building of self-propelled vehicles and in particular cars.

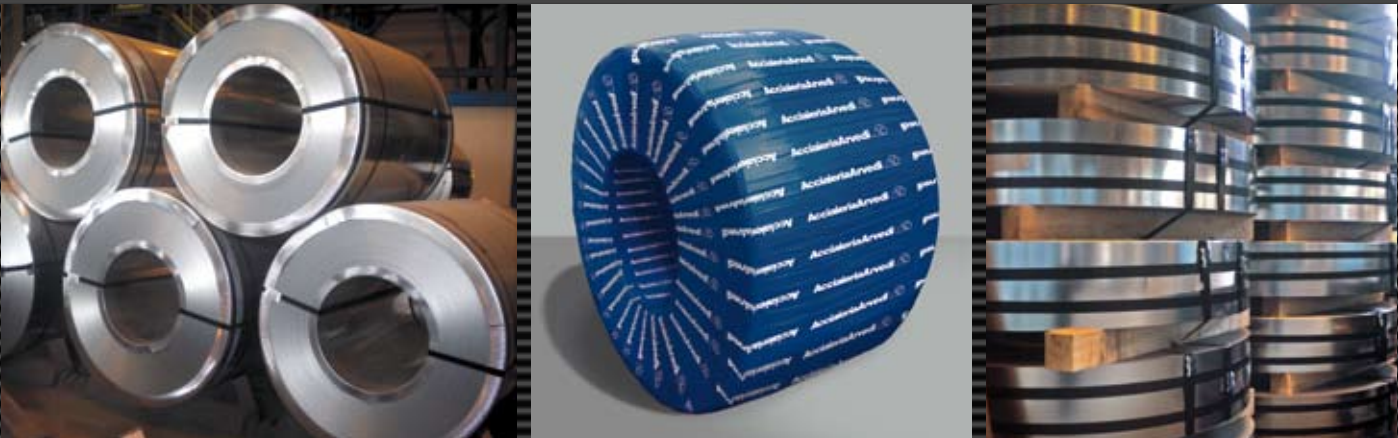
Table of galvanized automotive steels

Steel grades	gauge (mm)								
	0.5	0.75	1	1.25	1.5	1.8	2	3	4
H 260 LAD / FE E 270									
H 300 LAD / FE E 300									
H 340 LAD / FE E 340									
H 380 LAD / FE E 380									
H 420 LAD / FE E 420									
DP 600									



Arvedi HDG - Packaging solution

We can provide a “tailor-made” packaging solution to safeguard the quality up to your warehouse





Aerial view of the steelworks and the new finishing plants

Quality - Environment - Safety: always our guiding concepts

Acciaieria Arvedi's environmental and safety policies are based on the recognition of the importance of protecting the environment and health and safety at work.

The environment, health and safety at work and the relative results of these - as shown from the environmental management system certification in accordance with ISO 14001:2004 and OHSAS 18001:2009 - are considered an essential part of the company's management system.



ISO 14001

Istituto Italiano di Garanzia della Qualità and the company Det Norske Veritas Italy have certified the environmental management systems of Acciaieria Arvedi, Arvedi Tubi Acciaio and Itta Inox designed according to ISO 14001.



Industrie Service



Licences, approvals and product certifications:

Type of certification

AD Merkblatt W 0/TRD 100

EC marking in conformance with Directive Steel for structural 89/106/CEE of the EC Council of 21/12/88

Authorisation decree DM 9/1/96 by the Public Works Ministry for construction steels

Field of application

Pressure vessels and boilers

Steel for structural applications as per EN 10025-2

Metallic constructions

by

TÜV

IGQ

AcciaieriaArvedi



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