



HIGH TECHNOLOGY & EXPERIENCE

Advanced technology, experience consolidated over the years, the constant search for quality, flexibility and customer service are the main pillars of **Arvedi Tubi Acciaio S.p.A**, a leader in welded tube for special applications.

With a production capacity of over 600,000 tpy, the Cremona-based company holds a consistent market share in the automotive, mechanical applications, heat transfer, pressure equipment, piping, industrial and civil constructions.

Its stretch-reducing mill and HFI welding lines, fitted with the most advanced automation technology, allow customer to be offered a vast range of products that can meet the strictest requirements and standards.

ATA's production range meets the requirements of three basic areas of application namely special, energy and civil engineering and includes round tubes and pipes in diameters from 17.2 to 355.6 mm. Square hollow section can be produced from 100x100 to 300x300 mm and rectangular hollow section from 120x80 to 400x200 mm in a range of wall thicknesses from 1,2 to 16 mm.



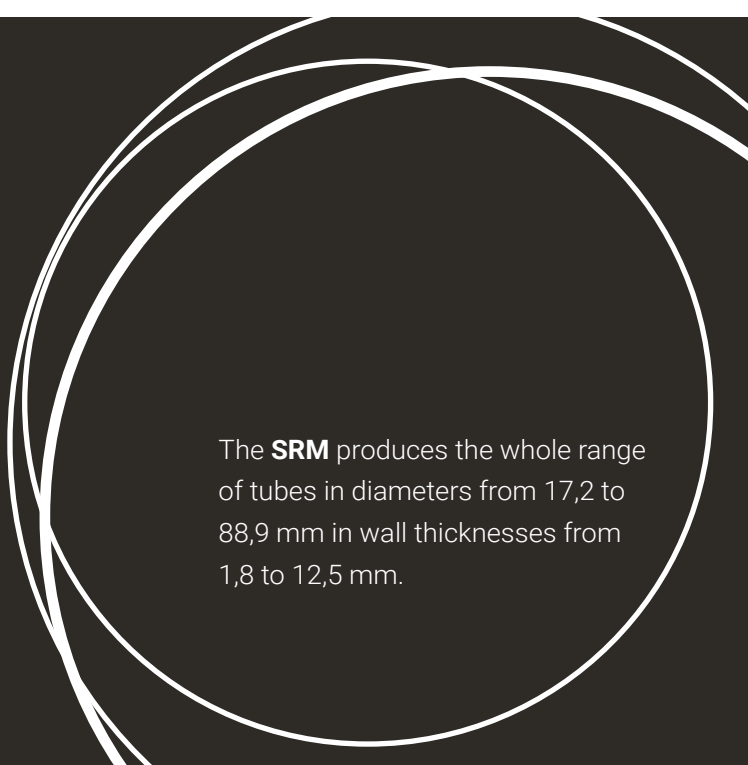
HOT STRETCH REDUCED

Arvedi hot rolled tubes (**Arvedi LC®** and **GSM®**) are produced on the hot stretch-reducing mill, a unique plant that allows to obtain small and medium diameter tubes with the internal bead removed.

The plant dates back to 1974 when the stretch reducing mill (**SRM**) was installed downstream from a high frequency welding line (**HFI**), an absolute innovation in Europe.

Starting with black and galvanised gas and water pipe production with the trademark **Arvedi LC** (hot rolled), in two years the company was able to propose a new product, **GSM**, heavy wall hot reduced tube for specialist applications.

The excellent degree of workability, appreciated by users of **Arvedi LC®** and **GSM®** tube, is the result of a controlled hot reduction process which, besides supplying the tube in the normalized state, guarantees complete homogeneity of the material's mechanical and physical characteristics.



The **SRM** produces the whole range of tubes in diameters from 17,2 to 88,9 mm in wall thicknesses from 1,8 to 12,5 mm.

ARVEDI GSM® TUBES

The characteristics of homogeneity and workability of **Arvedi hot stretch reduced** tubes are enhanced in the heavy wall mechanical tubes (**GSM®**) where the ratio between wall thickness and diameter is pushed over 30%.

GSM tube presents a smooth internal surface without the welding bead, even for small diameter and heavy wall products, as it is rolled from a large diameter welded tube whose bead has been removed. **GSM** is therefore suitable for cold drawing and for all mechanical processing's which require a good internal tube surface.

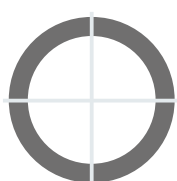
The uniqueness of Arvedi process is due to the rolling of HFI welded mother shell on stretch reducing mill. The Arvedi mother shell is not obtained from billet "piercing" (as for seamless process).

In addition, the Arvedi mother shell is generated from a strip with limited thickness variations.

All these peculiarities guarantee superior geometrical characteristics and negligible or limited internal polygonality.

Synergy with Acciaieria Arvedi allows to develop new products made with special steels and aimed at specific projects. The production line from the steel to the finished and pre-processed tube responds with ideas and solutions, even personalised ones, to the most varied demands.

ARVEDI LC®/GSM vs SEAMLESS



CONCENTRIC

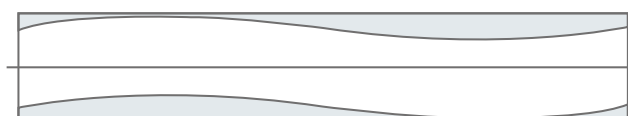


ECCENTRIC



ARVEDI LC/GSM

eccentricity absent or negligible both in the cross section and along the tube length



SEAMLESS



ROUND TUBES

MANUFACTURING PROGRAMME

Tubes and pipes

mm	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	8,0	9,0
17,2		●	●	●	●									
19,0-20,0-21,3	●	●	●	●	●	●	●	●	●					
25,4	●	●	●	●	●	●	●	●	●	●				
26,4-26,9-28,0	●	●	●	●	●	●	●	●	●	●				
30,0-30,8-32,0	●	●	●	●	●	●	●	●	●	●				
33,7	●	●	●	●	●	●	●	●	●	●	●	●	●	●
35,5	●	●	●	●	●	●	●	●	●	●	●	●	●	●
38,0-40,0	●	●	●	●	●	●	●	●	●	●	●	●	●	●
42,0-42,4	●	●	●	●	●	●	●	●	●	●	●	●	●	●
44,5-45,0	●	●	●	●	●	●	●	●	●	●	●	●	●	●
48,0-48,3	●	●	●	●	●	●	●	●	●	●	●	●	●	●
50,0-50,8-51,0	●	●	●	●	●	●	●	●	●	●	●	●	●	●
54,0-56,0-57,0	●	●	●	●	●	●	●	●	●	●	●	●	●	●
60,0-60,3	●	●	●	●	●	●	●	●	●	●	●	●	●	●
63,5-65,0	●	●	●	●	●	●	●	●	●	●	●	●	●	●
70,0-72,0-73,0	●	●	●	●	●	●	●	●	●	●	●	●	●	●
76,1		●	●	●	●	●	●	●	●	●	●	●	●	●
80,0-82,5		●	●	●	●	●	●	●	●	●	●	●	●	●
88,9-90,0		●	●	●	●	●	●	●	●	●	●	●	●	●
100-101,6		●	●	●	●	●	●	●	●	●	●	●	●	●
108,0			●	●	●	●	●	●	●	●	●	●	●	●
114,3-115			●	●	●	●	●	●	●	●	●	●	●	●
127,0				●	●	●	●	●	●	●	●	●	●	●
133,0				●	●	●	●	●	●	●	●	●	●	●
139,7				●	●	●	●	●	●	●	●	●	●	●
152,4				●	●	●	●	●	●	●	●	●	●	●
159,0				●	●	●	●	●	●	●	●	●	●	●
168,3				●	●	●	●	●	●	●	●	●	●	●
177,8					●	●	●	●	●	●	●	●	●	●
193,7						●	●	●	●	●	●	●	●	●
219,1						●	●	●	●	●	●	●	●	●
244,0						●	●	●	●	●	●	●	●	●
273,0						●	●	●	●	●	●	●	●	●
323,9							●	●	●	●	●	●	●	●
355,6										●	●	●	●	●

- HOT STRETCH REDUCED
- HOT STRETCH REDUCED + WELDED (COLD FORMED AS WELD / SEAM ANNEALED / HOT FINISHED)
- WELDED (COLD FORMED AS WELD / SEAM ANNEALED / HOT FINISHED)

standard	application	description
EN 10296-1	mechanical and engineering	Welded steel tubes for mechanical and general engineering purposes
EN 10210-1/2/3	structural and general	Hot finished structural hollow sections

standard	application	description
EN 10296-1	mechanical hot finished	Welded steel tubes for mechanical and general engine - ring purposes
EN 10210-1/2/3	Structural hot finished	Hot finished structural hollow sections
EN 10225-1/3	Offshore hot finished	Weldable structural steels for fixed offshore structures - hot finished hollow sections

standard	application	description
EN 10305-3	Precision applications	Steel Tubes for precision applications - Welded cold sized tubes
EN 10296	mechanical and engineering	Welded steel tubes for mechanical and general enginee- ring purposes

standard	application	description
EN 10219-1/2/3	Structural cold finished	Cold formed welded structural hollow sections
EN 10305-5	Precision applications	Steel Tubes for precision applications - Welded cold sized square and rectangular tubes
EN 39	Scaffolding	Loose steel tubes for tube and coupler scaffolds
EN 12899	Structural cold finished	Fixed, vertical road traffic signs - Welded tubes for road signs
ASTM A500	Structural cold finished	Cold-Formed Welded (and Seamless) Carbon Steel Structural Tubing in round and shapes
ASTM A252	Structural cold finished	Welded (and Seamless) steel pipe piles

standard	application	description
EN 10217-1	Pressure equipment	Welded steel tubes for pressure purposes with specified room temperature properties
EN 10217-2	Pressure equipment	Welded steel tubes for pressure purposes with specified elevated temperature properties
EN 10217-3	Pressure equipment	Welded steel tubes for pressure purposes with specified room, elevated and low temperature properties
EN 10217-4	Pressure equipment	Welded steel tubes for pressure purposes with specified low temperature properties
	Boiler and supeheater flues	Electric-Resistance-Welded carbon steel and carbon-manganese steel boiler and superheater tubes
ASTM A178	Boiler and superheated flues	Electric-Resistance-Welded carbon steel and carbon-manganese steel boiler and superheater tubes
ASTM A214	Heat exchanger	Electric-Resistance-Welded carbon steel heat-exchanger and condenser tubes
EN 10255	Gas and water conveyance	Non-alloy steel tubes suitable for welding and threading
UNI 7683	Conduit	Welded tubes cable conduits
ASTM A53	Line pipe	Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded (and seamless)
EN ISO 3183	Line pipe	Petroleum and natural gas industries - Line pipe
API 5L	Line pipe	Petroleum and natural gas industries - Line pipe
EN 10224	H2O Line pipe	Non-alloy steel tubes and fittings for the conveyance of aqueous liquids including water for human consumption
EN 253	District heating	District heating pipes
ISO 11960	OCTG	Tubes for petroleum applications - casing and tubing
API 5CT	OCTG	Tubes for petroleum applications - casing and tubing

HOLLOW SECTION

SQUARE & RECTANGULAR TUBES

metric sizes (mm)

Arvedi cold-formed round, square and rectangular structural hollow sections are high frequency induction- welded, made in European formats provided by standard **EN10219-1/2/3** or according to the customer's drawings or specifications.

Arvedi structural hollow sections are supplied in commercial or customized lengths, (with the option of internal bead removal), with plain ends, in the following steel grades:

non-alloy structural steel grades
S235JR
S275J2H
S355J2H

fine grain
S275NH
S355NH
S460NH
(and NLH)

fine grain (HSLA):
S355MH
S420MH
S460MH
(and MLH)

ultra high strength (UHSS):
S500MC
S700MC

and other steel grades with high mechanical characteristics and / or according to customer specifications.

For the steel grades included in the standard **EN10219-1** supplies are **CE** certified and are accompanied by **EN10204 3.1** certificate and declaration of performance (in accordance with Regulation EU 305/2011).

Arvedi Tubi Acciaio is certified for construction products: **EN 10219-1 license no. CE 1608 CPR P064.**

SQUARE	4,0	4,5	5,0	6,0	8,0	10,0	12,5	14,2	16,0	RECTANGULAR
100x100	■	■	■	■	■	■	■			120x80
110x110	■	■	■	■	■	■	■			140x80
	■	■	■	■	■	■	■			150x100
120x120	■	■	■	■	■	■	■			160x80
	■	■	■	■	■	■	■			160x90
140x140	■	■	■	■	■	■	■			180x100
	■	■	■	■	■	■	■			200x80
150x150	■	■	■	■	■	■	■	■		200x100
160x160	■	■	■	■	■	■	■	■		200x120
	■	■	■	■	■	■	■	■		200x150
	■	■	■	■	■	■	■	■		250x100
180x180	■	■	■	■	■	■	■	■	■	
200x200	■	■	■	■	■	■	■	■	■	250x150
	■	■	■	■	■	■	■	■	■	250x200
220x220	■	■	■	■	■	■	■	■	■	260x180
	■	■	■	■	■	■	■			300x100
			■	■	■	■	■	■	■	300x150
250x250			■	■	■	■	■	■	■	300x200
300x300				■	■	■	■	■	■	400x200

HOLLOW SECTION

SQUARE & RECTANGULAR TUBES

imperial sizes (inches)

Arvedi round, square and rectangular structural tubings are cold-formed high frequency induction-welded tubings made in pound-inch formats (imperial sizes) in accordance to standard **ASTM A500** or according to the customer's drawings or specifications.

Arvedi structural imperial size tubings are supplied in commercial or customized lengths, (with the option of removal of the internal bead) with plain ends in the following steel grades:

standard:
Gr. B - Gr.C

high strength low alloy (HSLA):
50.000 psi &
60.000 psi
minimum yield
strength

ultra high strength (UHSS):
70.000 psi &
100.000 psi
minimum yield
strength

and other steel grades with specific mechanical characteristics and according to customer specifications. Tubing supplies are accompanied by a Certificate of Compliance or a Test Report (Material Certificate) as specified in the purchase order.

SQUARE	0,18	0,188	0,25	0,313	0,375	0,5	0,625	RECTANGULAR
4" x 4"	■	■	■	■	■	■		5" x 3"
4 1/2" x 4 1/2"	■	■	■	■	■	■		5" x 4"
	■	■	■	■	■	■		6" x 3"
5" x 5"	■	■	■	■	■	■		6" x 4"
5 1/2" x 5 1/2"	■	■	■	■	■	■		6" x 5"
	■	■	■	■	■			7" x 3"
	■	■	■	■	■	■		7" x 4"
6" x 6"	■	■	■	■	■	■	■	7" x 5"
			■	■	■			8" x 3"
	■	■	■	■	■	■		8" x 4"
7" x 7"	■	■	■	■	■	■	■	8" x 6"
			■					9 1/2" x 4"
	■	■	■	■	■	■		10" x 3"
	■	■	■	■	■	■		10" x 4"
8" x 8"			■	■	■	■	■	10" x 6"
			■	■	■	■	■	10" x 8"
			■	■	■	■		12" x 4"
			■	■	■	■	■	12" x 6"
10" x 10"			■	■	■	■	■	12" x 8"
12" x 12"						■		16" x 8"



HOT FINISHED



Leonardo
old formed | hot finished | green heart

CERTIFIED STEEL

For the steel grades included in the standard **EN10210-1 Arvedi LEONARDO** Hot Finished Hollow Sections supplies are CE certified and are accompanied by **EN10204 3.1** certificate and declaration of performance (in accordance with Regulation EU 305/2011).

Arvedi LEONARDO hot finished structural hollow sections are HFI welded tubes made in accordance with standard EN10210-1/2/3; besides the special features of cold-formed welded tubes, they have all the benefits of hot finished ones:

- homogeneity of the technical characteristics: workability, weldability, ductility, plasticity and bendability so ideal to be used in seismic areas
- absence of residual stresses in the section corner areas and the tube welding area.
- suitability for welding on the corner over the whole Arvedi size range, overcoming the limits defined in Eurocode 3 (also for wall thicknesses > 12.5 mm).

SQUARE	4,0	4,5	5,0	6,3	8,0	10,0	12,5	14,2	16,0	RECTANGULAR
60x60	■	■	■	■						
70x70	■	■	■	■						
80x80	■	■	■	■	■	■				100x60
90x90	■	■	■	■	■	■				
100x100	■	■	■	■	■	■	■			120x80
110x110	■	■	■	■	■	■	■			140x80
	■	■	■	■	■	■	■			150x100
120x120	■	■	■	■	■	■	■			160x80
	■	■	■	■	■	■	■			160x90
140x140	■	■	■	■	■	■	■			180x100
	■	■	■	■	■	■	■			200x80
150x150			■	■	■	■	■	■		200x100
160x160			■	■	■	■	■	■		200x120
			■	■	■	■	■	■		200x150
			■	■	■	■	■	■		250x100
180x180			■	■	■	■	■	■	■	
200x200			■	■	■	■	■	■	■	250x150
				■	■	■	■	■	■	250x200
220x220				■	■	■	■	■	■	260x180
			■	■	■	■	■			300x100
				■	■	■	■	■	■	300x150
250x250				■	■	■	■	■	■	300x200
300x300				■	■	■	■	■	■	400x200

"Other intermediate sizes to be verified on demand".

The perfection of **cold formed** with all the benefits of **hot finished**

WELDING ASPECT:

welding and heat affected zone completely transformed;

- (optionally) inner seam can be removed upon request,
- control of the position of the internal welding seam, always at the center of the larger side

CORNER RADII:

precise and tight corner profile,

- external radius $< 2 \times T$
(stricter than the standard requirement: radius $\leq 3 \times T$).
- same thickness on the side and corner of the section;
- no residual stress, same structure, same hardness as the base material

SECTION SHAPE:

zero eccentricity,

- uniform wall thickness and weight along the whole length of the single tube or hollow section and no differences between one and another

SURFACE:

better surface aspect and finishing,

- scale-free,
- low roughness.

PRECISION TUBES

WELDED PRECISION TUBES

MOTHER SHELL FOR COLD DRAWING

APPLICATIONS

Starting from steel strips, produced by **Acciaieria Arvedi**, which guarantee constant mechanical characteristics and close wall thickness tolerances, **ATA** produces high frequency induction welded (HFI) precision tubes in compliance with standard **EN 10305-3** and in accordance with customer specifications.

These tubes, which have the most severe prescriptions on dimensional tolerances are often processed with deep deformations and the obtained finished products are then frequently subjected to occasional loads or continuous fatigue stress. Industrial parts, machinery such as rolls, moving structures and crane parts are examples of their applications.

ARVEDI Mother shell for cold drawing represent ATA's core business; for this specific application, **ATA** confirms its position as a leader in Europe and the only independent supplier of these products.

These tubes can be produced as hot stretch-reduced or welded from black or pickled stripe and according to standard **EN10305-3**, **EN10210**, **EN 10296** or to customer specification; they are made in a wide range of steel grades and in the full size range of diameters from 17 to 355,6 mm and wall thicknesses from 1.5 to 16 mm.

ARVEDI mother shell are suitable for cold drawing to obtain tubes with close tolerances and low roughness used in particular in the automotive sector and hydraulic or pneumatic industry.



PRECISION TUBES

ARVEDI AUTOMOTIVE TUBES

APPLICATIONS

Integration upstream with **Acciaieria Arvedi** guarantees short supply times of the raw material and considerable production flexibility.

Integration downstream with **Metalfer Spa** and **Metalfer Automotive** offers the end customers the possibility of receiving the cut-to-size tube on a just-in-time basis.

The high frequency induction welded (HFI) precision tubes produced by **ATA** in accordance with **EN 10305-3** and / or in accordance with customer specifications are used in the car and truck components sector. **Arvedi Tubi Acciaio** is an appreciated supplier of the leading car manufacturers and their subcontractors. The quality management system at **Arvedi Tubi Acciaio** in Cremona is certified **IATF 16949**.

Thanks to a team composed of engineers and experts in the sector, **ATA** supports customers during the various project phases, from steel choice to the development of the product and down to the launch of the finished series, guaranteeing efficient after-sales assistance.

Synergy between **Acciaieria Arvedi** and **ATA** leads to the development of specific steel grades dedicated to individual projects.

Once they are series, these grades are produced with innovative **ISP** and **ESP** processes with controlled thickness, mechanical and physical characteristics, properties appreciated by car manufactures which become constancy and uniformity of behavior under processing and then in performances on the vehicle.

Subsequent processing carried by the customers includes bending, hydroforming, cold and hot forming and mechanical processing for making small and large series of automotive parts such as axles, camshafts, stabilizing bars, chassis parts, engine and bodywork supports and reinforcements and safety parts.



ENERGY AND POWER

BOILER TUBES AND HEAT EXCHANGERS

APPLICATIONS

Arvedi tubes for pressure applications are high frequency welded (HFI) products in alloy and non-alloy carbon steels.

The excellent final characteristics are achieved using raw materials of constant and uniform quality from **Arvedi Acciaieria ATA**'s special production equipment which allows close dimensional tolerances to be respected.

The results are better workability and repeatability in the welding, rolling expansion and curving phases. These tubes are mainly used in industrial and domestic boilers, high and low temperatures heat exchangers and in applications for the conveyance of pressurized fluids in the chemical and petrochemical industry.

The reference standards are:

EN 10217-1

for uses at
ambient
temperature

EN 10217-2

for uses at high
temperatures

EN 10217-3

for fine grain
alloyed tubes

EN 10217-4

for uses at low
temperatures

ASTM A214

electrically welded
carbon steel heat
exchangers and
condensers

ASTM A178

electrically
welded carbon
steel tubes for
boilers and heat
exchangers

The tubes for pressure applications can be supplied in lengths up to 15 meters and in the following states:

welded and
calibrated

seam annealed

normalized in
a controlled
atmosphere

hot rolled

On request, in the order phase, it can be agreed to supply the tubes together with **PED** (pressure equipment directive) certification in compliance with the requirements of **PED 2014/68/EU** or the certification **AD 2000 W4/TRD 102**.



ENERGY AND POWER

DISTRICT HEATING

APPLICATIONS

Arvedi produces and supplies tubes for district heating following the provisions of standard **EN253** and stricted customer specifications.

ARVEDI tubes for district heating are welded tubes produced in accordance with the series of standards **EN10217** and can be supplied seam annealed or full body normalized; they are made in steel grades provided by the standards or in special steel grades, in accordance with customer specifications and they ensure use in extreme conditions; depending on the application requirements the **ARVEDI** tubes can be supplied in lengths ranging from 6 to 16 meters.

As part of product documentation **Arvedi Tubi Acciaio** can provide **PED** (pressure equipment directive) certification in compliance with the requirements of European Directive **PED 2014/68/EU**.

WATER PIPE

Arvedi Tubi Acciaio uses high quality carbon steels characterized by excellent physical and mechanical properties.

The repeatability of these characteristics allows the obtained tubes to be highly weldable and workable in the installation phase.

The water pipes are produced with (HF) longitudinal welding from hot rolled strip, complying with the prescriptions of standard **EN 10224** and can be coated externally with polyethylene and lined internally with epoxy varnish.

Arvedi water pipes are made and supplied in compliance with standard **EN10244**, EU certified and are accompanied by a declaration of performance (as per regulation EU 305/2011).



ENERGY AND POWER

APPLICATIONS

LINE PIPE

ARVEDI line pipes are tubes destined for conveying pressurized fluids and are typically used in the civil and industrial oil & gas sectors.

These pipes are supplied both bare and coated in polyethylene and are produced and supplied in accordance with standard **API5L** and **ISO3183**.

OCTG CASING AND TUBING

OCTG tubes are used in wells and oil & gas production plants; these tubes are produced and supplied in compliance with standards **API5CT** and **ISO11960**.

ATA produces **OCTG** tubes using high frequency induction welding (HFW) without the addition of filler metals.

Following welding:

- diameters up to 3"; are rolled in a hot stretch-reducing mill;
- diameters over 3 ½"; are normalized along the weld area or full body normalized.

Arvedi tubes are produced in the following Group 1 steel grades:

- H40 / K55 / J55 / N80

A particular steel grade is also available:

"J55 upgradable": developed in collaboration with **Acciaieria Arvedi**, suitable for upgrading to steel grades **N80**, **L80** and **P110**.



GAS & WATER

ARVEDI LC® TUBES

Arvedi LC® is the **Arvedi** trademark that identifies the production of tubes and pipes for the plumbing and heating sector obtained with a hot rolling process.

These tubes and pipes, in compliance with standard **EN 10255**, are used for plumbing and heating equipments.

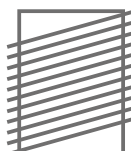
After the production process these tubes and pipes can be hot-dip galvanized **EN 10240** using lead-free zinc with a high degree of purity.



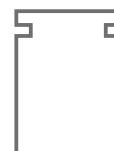
Arvedi LC® tubes can be supplied with the following end finishing:



plain end, square cut or beveled



external taper threads (EN 10226-1) without
or with socket



grooved: suitable for using "Vitaulic"-type
screwed couplings

Arvedi EN10255 galvanized tubes are approved for drink water consumption in several european countries following their specific regulations.

GAS & WATER

PIPING & SERVICES

The range of pipes for plumbing and heating systems is completed with tubes designed for industrial piping and services.

ARVEDI ARCO® PREPAINTED PIPE

Arvedi Arco® is the **Arvedi** trademark that identifies the prepainted pipes. Tubes are produced in accordance with standard **EN 10255/10208-1/10217-1**.

The colour identifies the fluid being conveyed. **Arvedi** offers pre-painted tube which allows faster plant construction and delivery times as it avoids the installer having to paint the tubes on site. Characteristics such as resistance to attack by atmospheric agents, good adherence to bending and resistance to abrasion make these products suitable for various civil and industrial applications.



ARVEDI CONDUIT



Arvedi LC® conduits are produced in accordance with standard **UNI 7683**.

Arvedi LC® AD-PE are specifically destined to the conduit system for electrical installations of the explosion-proof type.

Arvedi LC® AD-PE tubes allow the construction of installations in accordance with the provisions of current legislation.

Arvedi LC® AD-PE conduits are bendable, without sharp edges, burrs or surface projections that can damage insulated conductors or cables.

Arvedi LC® AD-PE steel pipes, galvanized in accordance with EN 10240, are supplied in standard lengths of 6 metres with threaded ends (UNI 6125), with AD UNI 7684 socket onto one end, while the other end is protected with a plastic cap.

GEOTECHNICAL SYSTEMS

TUBES FOR CONSOLIDATION

APPLICATIONS

Arvedi Tubi Acciaio is the European leader in the production of hot rolled tubes for the manufacture of self-drilling anchor systems, used for tunnelling, mining consolidation, for steep slopes and landslides stabilising.

The standard steel grades are **S355J2H, S355NH, S355 mod, S460NH, 28MN6, 34MNB5, 38MNB5**.

In collaboration with its customers' technical offices **ATA** studies and develops suitably customised and optimised steel grades and specific sizes in order to increase the workability of the anchors and obtain the best performances on site and in operation.



EXPANDABLE ROCK BOLTING SYSTEM

These special profiles are produced according to customer requirements or according to **ATA** specification and can be supplied as weld based on tailored chemical analysis or full body normalized.

MICROPILING

Micropiling is produced in compliance with standard **EN 10219** or **EN 10296** in commercial length bars, with the internal bead removed and with smooth ends in the following steel grades:



BASIC STEELS

S235
S275
S355J2

HIGH STRENGTH

S420MH
S460MH

ULTRA-HIGH STRENGTH

S500MC
S700MC

OTHER STEEL

grades with high mechanical characteristics:
N80

For the steel grades included in the standard **EN10210-1** and **EN10219-1** supplies are CE certified and are accompanied by **EN10204** certificate and declaration of performance (in accordance with Regulation EU 305/2011).



SYSTEM CERTIFICATIONS

APPLICATIONS



	Certifications	Date first issued	Issue by
Quality	ISO 9001	26/01/1987	IGQ
	IATF 16 949	20/11/2001	IGQ

Environment	ISO 14001	12/05/2005	IGQ
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Health & Safety	ISO 45001	31/12/2009	IGQ
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Energy	ISO 50001	03/09/2014	IGQ
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PRODUCT CERTIFICATIONS



5CT - 0392
5L - 0293



PED 2014/68/EU
DRG-0036-QS-W
54/2002/MUC-001



AMMM00001HV
AMMM000035H



1608 CPR P063
EN10210
1608 CPR P064
EN10219
1608 CPR P129
EN12899
EN10224
EN10255



NW-7101AT2461



S-P-06004
www.environdec.com



BS EN 10210
1244 CPR 1088
BS EN 10219
1244 CPR 1087

ENVIRONMENT

A CERTIFIED PASSION

Arvedi Tubi Acciaio's commitment to the environment is proven by its constant monitoring of emissions and strict compliance with local, regional and national standards and legal requirements. In 2005 it was among the first Italian companies to obtain **ISO 14001** certification and in 2022 it confirmed its carbon footprint awareness certification with its Environmental Product Declaration (EPD) relative to structural hollow sections.

It is certified according to **ISO 45001**, a management system which involves the ownership, management and all employees in a programme of continuous improvement to ensure worker health and safety.



To further reduce its impact on the environment, particular attention is paid to energy saving with the implementation of an energy management system, certified in compliance with **ISO 50001**, aimed at constantly improving energy efficiency.

Thanks to **ISO 9001** certification related to the production of tubes for special applications and **IATF 16949** certification for automotive products together with a spirit of innovation aimed at improving production process performances, **Arvedi Tubi Acciaio** works to strengthen customer relations and constantly improve customer satisfaction with products and performances.

An important step in its development was the adoption of the Organisation, Management and Control Models in accordance with Italian Decree Law 231/01 and the definition of a Code of Ethics which clearly define the overall values which inspire **Arvedi Tubi Acciaio** and set out clear rules of behaviour for its professional activities.

Finarvedi SpA

Finarvedi is the holding company of the **Arvedi Group**, the core business of which is composed of steelmaking activities with annual volumes of over 5 million tonnes of

products characterised by high quality and destined for the most demanding markets.

CARBON STEEL

Acciaieria Arvedi 

CSI Centro Siderurgico Industriale

Euro-Trade

Arvedi Tubi Acciaio 

Metalfer 

Metalfer Poland 

Metalfer Automotive 

Metalfer Morocco

Arvedi Metalfer Brasil 

STAINLESS STEEL

Arvedi AST 

SDF 

Terninox 

AST Deutschland 

AST Turkey 

Tubificio di Terni 

iltainox 

Arinox 



Arvedi Tubi Acciaio 

Arvedi Tubi Acciaio S.p.A.

Sede Legale

Via Acquaviva, 3 - Zona Porto Canale
26100 Cremona - Italia

ata@pec.arvedi.it

www.arvedi.it/ata/

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