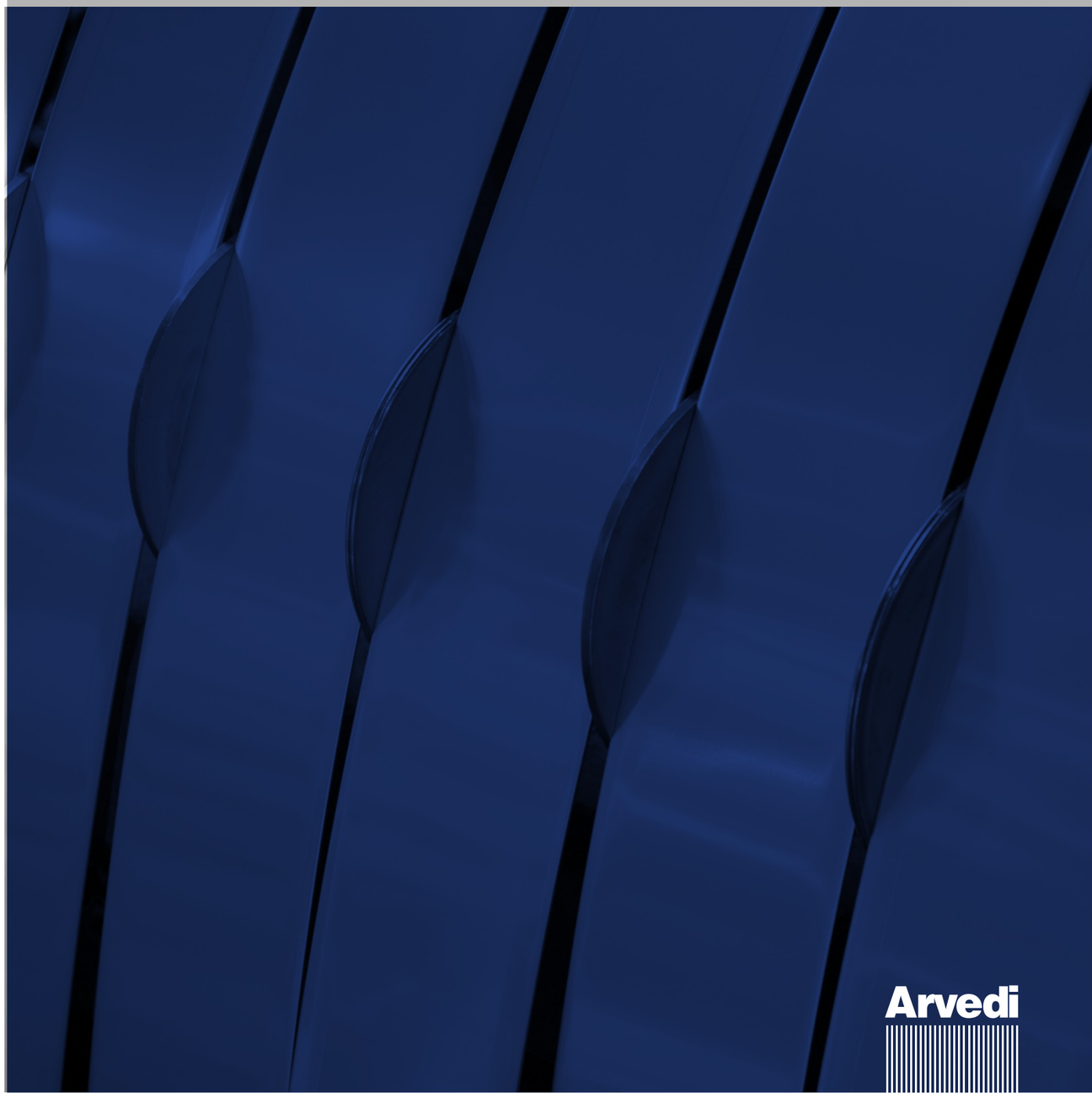
Terninox

The service centre of

Arvedi AST



Arvedi



Arvedi AST

The Arvedi Group

The Arvedi Group operates across Europe through a range of activities spanning primary products, such as steel and hot-rolled coils, through to finished products including precision rerolled products, tubes and stainless steel forgings. Today, the Arvedi Group manufactures flat hot-rolled and cold-rolled carbon and stainless steel products, carbon and stainless steel tubes, and precision rerolled stainless steel strip, and is also active in the trading of steel products. All Group companies have been designed with a strong focus on specialization and optimized in terms of production organization and plant configuration. They employ state-of-the-art technology and proprietary operating practices to enhance efficiency, quality and flexibility. A highly qualified and experienced management team, leading a lean and flexible organization, works to ensure high standards of production efficiency and product quality, together with a high level of customer service, with particular attention to market developments and requirements. The Group's technological, ergonomic and environmental choices are guided by a commitment to people's safety and well-being, as well as to the responsible management of environmental impacts.

The holding company and the Group's industrial structure

Finarvedi is the holding company of the Arvedi Group, the core business of which is composed of steelmaking operations with volumes of over 6 million tonnes of products characterised by high quality and destined for the most demanding markets. The Arvedi Group has more than 6,000 employees and consolidated revenue of over € 5 billion. The recent acquisition (January 2022) of AST Terni has given the Group an important role also in the primary steelmaking sector for stainless steel and has contributed to growth in volumes and revenues. The companies already present in the Group – ILTA Inox and Arinox – will be able to exploit the synergies arising from the presence of AST, a manufacturer of raw materials in the form of coils.

Finarvedi SpA

CARBON STEEL		STAINLESS STEEL		
AcciaieriaArvedi	Arvedi Tubi Acciaio	Arvedi AST	iltainox	Arinox
CSI Centro Siderurgico Industriale	Metalfer	SDF		
Euro-Trade	Metalfer Poland	Terninox		
	Metalfer Automotive	AST Deutschland		
	Metalfer Morocco	AST Turkey		
	Arvedi Metalfer Brasil	Tubificio di Terni		

Arvedi

Terninox
The Arvedi AST service centre

Reliability, precision, high standards and operational excellence.

Terninox is the Arvedi AST service centre specialising in the processing and distribution of stainless steel coils, strips and sheets. Thanks to its integration with Arvedi AST, it combines the flexibility and speed of a service centre with the strength of one of Europe's leading stainless steel producers.





121,000 m² total area
Of which 26,000 m² covered, dedicated to production, storage and logistics.



3 strategic sales offices
Milan, Florence and Venice, where we combine our commercial and production presence. We also have a logistics warehouse in Osimo for deliveries to central and southern Italy.



Extensive Stock Availability and Fast Delivery
A wide range of materials and formats readily available to ensure a reliable, uninterrupted supply and prompt delivery.



European logistics
The ability to ship to every country across the European continent through optimized logistics solutions. Our goal is to increasingly leverage the European rail network as the primary mode of transport for long-distance shipments, relying on trucks for last-mile delivery.



International certifications
ISO 9001, ISO 14001 and UNI EN ISO 45001. Every activity is carried out in accordance with rigorous quality standards, from material selection and processing to shipping. Our team's expertise, integration with Arvedi AST, and continuous process monitoring ensure reliability, compliance with specifications, and long-term value for our customers.

Arvedi

Terninox

Our strengths



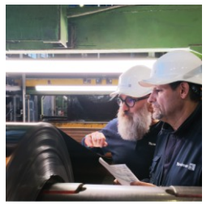
Integration with Arvedi AST

The direct connection to the steelworks ensures certified quality, continuity of supply and efficient supply management.



Advanced Technologies

Finishing, slitting and cutting lines designed for precision processing across a wide range of thicknesses, combined with highly skilled technical personnel, ensure high-quality finished product.



Technical and Commercial Support

Our experience across key stainless steel application sectors enables us to support customers in selecting the materials and solutions best suited to their specific needs and applications.



Operational Flexibility

A dynamic organisation and a broad range of available materials enable us to respond quickly to diverse production needs, from scheduled deliveries to customised requirements.



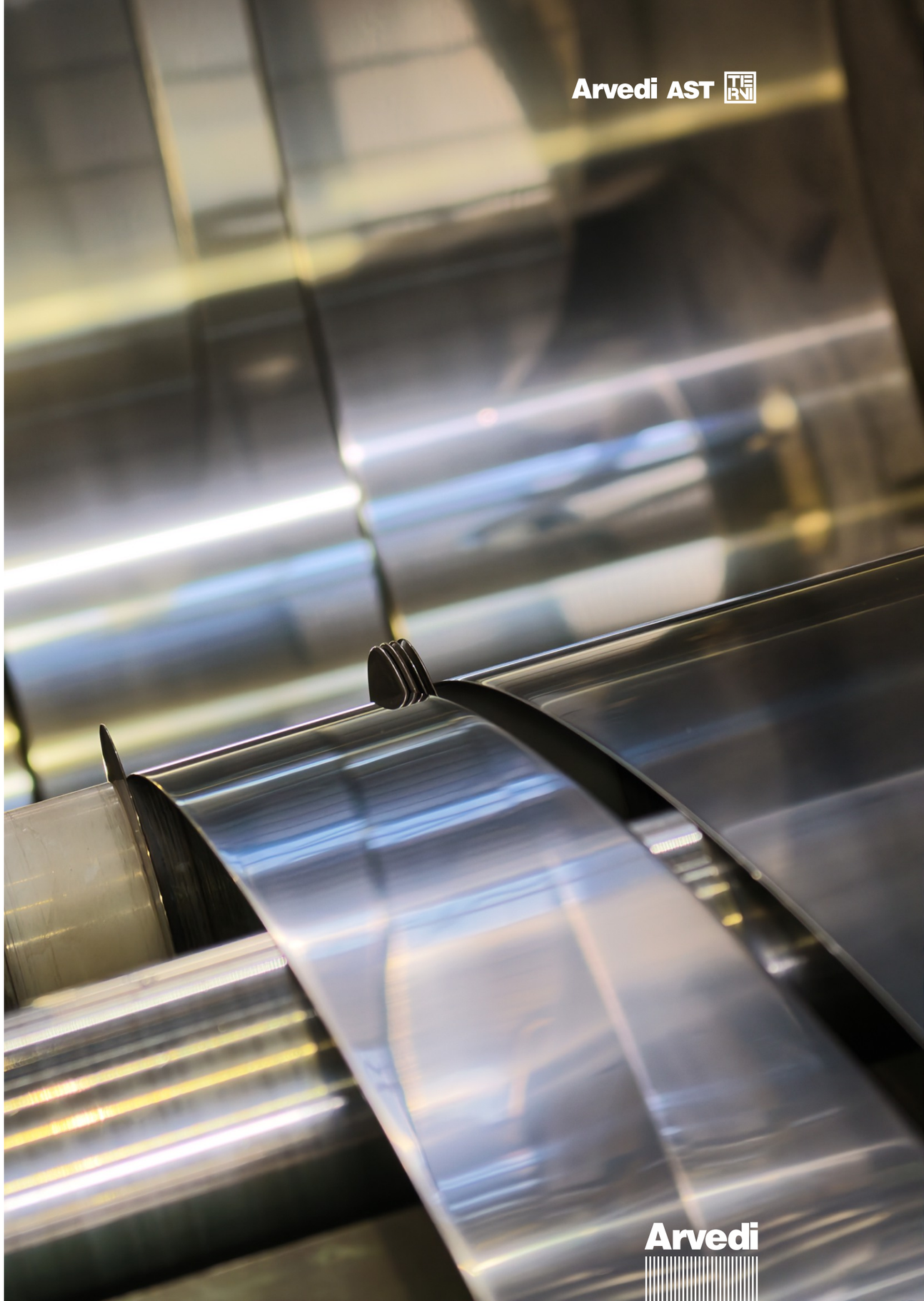
Reliable Supply

Integrated logistics processes, effective inventory management and careful delivery planning ensure continuity of operations and on-time deliveries throughout the supply chain.



Certifications and Quality Standards

Every process is managed with meticulous attention to technical specifications, material requirements and customers' production needs. We are committed to delivering products that meet the applicable quality standards and certification requirements. Our goal is to provide reliable service and build long-term partnerships with our customers.



Product range

Terninox

Arvedi AST

A complete range of stainless steels for every application

Terninox offers a wide range of stainless steel products serving the main market sectors.

Our portfolio meets the needs of applications requiring high technical and quality standards, from the medical, chemical and petrochemical industries to plant engineering and highly specialised industrial processing.

These sectors are complemented by markets that have contributed to Terninox's growth and strengthened the brand's recognition over time, including catering and professional kitchens, tank manufacturing and architectural applications.

Our in-depth knowledge of stainless steel and its applications enables us to support each sector with tailored solutions, combining a comprehensive product range, surface quality, reliable supply and technical expertise.

Our product portfolio includes coils, strips and sheets available in a wide variety of stainless steel grades, dimensions and surface finishes.

Alongside standard products, we offer customised solutions, special grades and dedicated services to meet specific application requirements and support high-value-added manufacturing processes.

We supply various stainless steel grades, including 304, 430, 316L and 441, in thicknesses ranging from 0.4 to 3.0 mm. Special grades, finishes and made-to-order products are also available upon request, such as patterned 441 stainless steel.



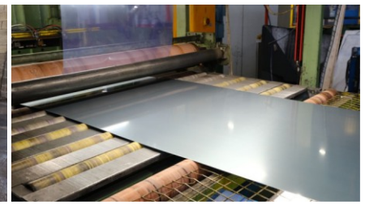
Coils

Immediate availability, a wide choice of stainless grades and scheduled supplies to support continuous production processes.



Slit Strips

Our slitting lines produce stainless steel strips with high dimensional accuracy and excellent cutting quality.



Sheets

Quality materials, diversified formats and surface finishes to meet the most demanding technical and aesthetic requirements.

Arvedi

Stainless steel grades

		FERRITIC		AUSTENITIC						
		FERRO CHROME	FERRO CHROME STABILISED	CHROME NICKEL						CHROME NICKEL MOLYBDENUM
		430	441 LI	304	304 DL	304 MSA	304 MS	304 PSA	304 PS	316 L
EN 10088-2		1.4016	1.4509	1.4301	1.4307	1.4301	1.4301	1.4301	1.4301	1.4404
COLD-ROLLED COILS AND SHEETS	2B	✓ *	✓	✓	✓	✓	✓	✓	✓	✓
	BA	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Decorated	✓	✓	✓	✓	✓	✓	✓	✓	✓
INDICATIVE CHEMICAL COMPOSITION	C	0.04	0.02	0.04	0.025	0.04	0.04	0.04	0.04	0.03
	Cr	16.2 –	18.2 –	18.2	18.2	18.2	18.2	18.2	18.2	16.7
	Ni Mo	– –	–	8.1	8.1 –	8.1	8.6	8.6	9.1	10.3
	Others	300	Ti, Nb	– –	– 250	– Cu	– –	– Cu	– –	2.1
		500	300	270	630	260	250	250	250	–
MECHANICAL PROPERTIES AT 20 °C – INDICATIVE VALUES	Yield strength 0.2%		470	650		630	630	620	600	270
	Tensile strength Rm									580
	Elongation A% A80 (thickness <3mm) A5 (thickness ≥3mm)	27	28	54	54	56	56	58	58	52
FOOD CONTACT (ITALIAN M.D. 21/3/73)		✓	✓	✓	✓	✓	✓	✓	✓	✓
CORROSION RESISTANCE	General	+	+	++	++ ++	++	++	++ ++	++ ++	+++
	Pitting	+	++	++ °	° ++	++ °	++ °	° ++	° ++	+++ °
	Stress corrosion	++	++	++	++	++	++	++++	++++	++
	High temperature	+	+++	++	++++	+++	+++	+++	+++	+++
FORMABILITY		+	++	+++		+++	+++			++++
WELDABILITY			+	+++						

° Not applicable/not required + Acceptable ++ Good +++ Excellent ++++ Superior performance



Product range

COILS

FINISH	STEEL GROUP	THICKNESS mm FROM	THICKNESS mm TO	WIDTH mm FROM	WIDTH mm TO
2B-2D	FERRITIC	0.35 (*)	0.59	100	1270
		0.6	3	100	1520
	AUSTENITIC	0.35 (*)	0.49	100	1270
		0.5	3	100	1520
BA	FERRITIC / AUSTENITIC	0.35 (*)	0.59	100	1270
		0.6	1.5	100	1520
		1.51	2	100	1270

(*) Availability of 0.35 mm thickness to be checked on request

NARROW STRIPS

THICKNESS mm FROM	THICKNESS mm TO	WIDTH mm FROM	WIDTH mm TO
0.35 (*)	2	20	100
2.01	2.5	25	100
2.51	3	30	100

(*) Availability of 0.35 mm thickness to be checked on request

STANDARD-SIZE SHEETS

THICKNESS mm FROM	THICKNESS mm TO	WIDTH mm STD	LENGTH mm FROM	LENGTH mm TO
0.5	1.5	1000	1000	3000
0.5	3	1250	1250	6000
0.5	3	1500	1500	6000

CUT-TO-LENGTH SHEETS

THICKNESS mm FROM	THICKNESS mm TO	WIDTH mm FROM	WIDTH mm TO	LENGTH mm FROM	LENGTH mm TO
0.4	1.5	150 (*)	800	250	2000
0.4	1.5	270	1540	350	4000
0.6	3	300	1540	500	6000

* Smaller sizes on request, subject to verification

Tolerances

THICKNESS TOLERANCES – COILS AND SHEETS

THICKNESS mm	TOLERANCE mm *
≤ 0.59	± 0.030
0.60 – 0.99	± 0.040
1.00 – 1.49	± 0.050
1.50 – 1.99	± 0.060
2.00 – 2.99	± 0.090
3.00 – 4.49	± 0.13
4.50 – 4.99	± 0.14
5.0	± 0.15

* Measured 30 mm from the edge
Asymmetrical tolerances available

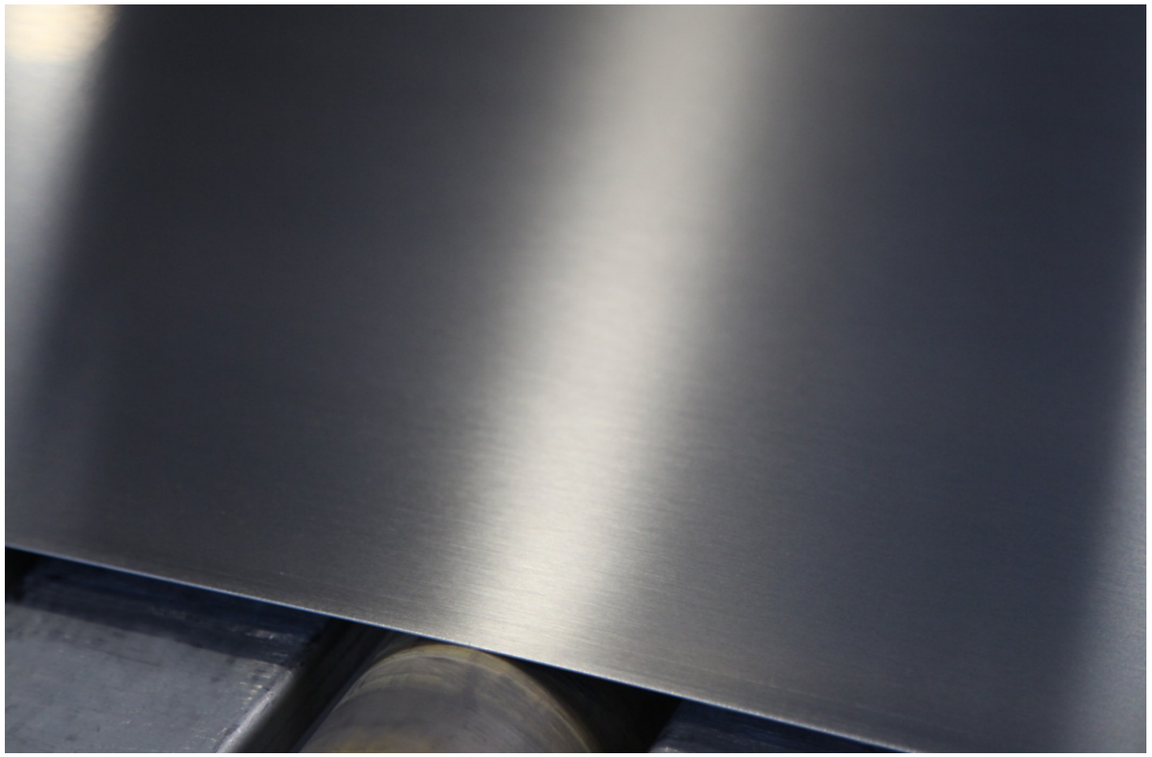
WIDTH TOLERANCES – COILS AND SHEETS

WIDTH mm	TOLERANCE mm *
<300	±0.1
301 – 1000	±0.2
1001 – 1500	±0.3

* Measured 30 mm from the edge
Asymmetrical tolerances available

OTHER TOLERANCES

LENGTH mm	TOLERANCE mm	FLATNESS	CAMBER
250 – 2000	0 + 4	According to required standard	According to required standard
2001 – 4000	– 0 + 6		
4001 – 6000	– 0 + 8		



Surface finishes

DESCRIPTION	AISI ASTM A 480	EN 10088-2	ACCIAI SPECIALI TERNI EQUIVALENT	SURFACE CONDITION	NOTES
Cold rolled, annealed, pickled and skin-passed	2B	2B	2B	Smoother than 2D	Most common finish, ensuring good corrosion resistance, smoothness and flatness
Cold rolled, bright annealed and lightly skin-passed	BA	2R	BA	Smooth, bright, reflective	Smoother and brighter than 2B
Satin	3	2K	Gr 220-240	Matt satin	Unidirectional texture
Satin	4	2K	Gr 240-280	Bright satin	Unidirectional texture
Satin	6	2K	Gr 280-320	Low reflectivity Brushed	Unidirectional texture
Duplo	4	2K	Duplo	and satin Bright	Unidirectional texture Ra < 0.5 µm
Scotch-Brite		2J	Scotch-Brite	Available in various	Unidirectional texture Ra < 0.2 µm
Decorated on one side		2M	Decorated	patterns	Excellent decorated finish, mainly for architectural applications
Mirror	BA	2P	Mirror finish	Bright and polished	High performance for the medical and architectural sectors

Surface protection

A wide range of surface protection options is offered to meet the requirements of customers and end users.

Special finishes

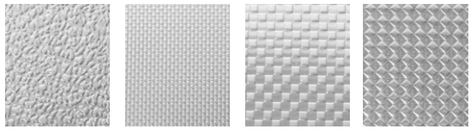
A wide range of surface finishes is offered for high-quality aesthetic and technical solutions.

Standard finishes



2B | BA | Brushed | Duplo | Satinato | Silver Ice®

Patterned finishes



Elephant skin | Linen | Square | Diamond

Matt finish on reguest

Micro-patterned finishes



Micro leather* | Weave* | Water pearls* | Honeycomb* | Interlace* | Microcircle* | Haze*

* On request
Surface finish images are for illustrative purposes only.

Industries

Terninox

Stainless steel solutions for the main application sectors

Thanks to a wide availability of materials, customised processing and well-established specialist expertise, Terninox supports companies operating in a variety of industrial sectors. From stainless steel processing to supply management, we work alongside our customers to develop reliable, high-performance solutions that meet the specific needs of each application sector.

Elevators and vertical mobility

Stainless steel is widely used in the manufacture of cabins, panelling and components for lifts and vertical mobility systems. Terninox offers materials and finishes that meet the aesthetic and functional requirements of the sector, ensuring consistent quality, precision processing and continuity of supply.

Services

- Wide range of surface finishes, including decorative solutions for cabins and panelling
- Market leader in the sale and production of grade 441, a strategic material for many applications in the sector
- Dedicated support for manufacturers and international groups with structured supply programmes
- Customised logistics solutions through Kanban systems and a dedicated warehouse service
- Pre- and after-sales technical and commercial assistance
- Dedicated organisation for managing framework agreements and long-term supplies.

Customer benefits

- Excellent aesthetic quality of our products and consistent reproduction of decorated finish patterns.
- We guarantee deliveries to all our customers' production plants, wherever they are, in Italy and Europe.
- Dedicated weekly, monthly or scheduled deliveries.



Household appliances

Stainless steel is at the heart of both large and small household appliances. Manufacturers in this sector now address the market by offering consumers increasingly sophisticated, high-performance solutions. Terninox supports them with steel grades, finishes and high surface quality.

Services

- Wide range of surface finishes, including decorative solutions
- Market leader in the sale and production of grade 441, a strategic material for many applications in the sector
- Dedicated support for manufacturers and international groups with structured supply programmes
- Customised logistics solutions through Kanban systems and a dedicated warehouse service
- Pre- and after-sales technical and commercial assistance
- Dedicated organisation for managing framework agreements and long-term supplies.

Customer benefits

- Excellent aesthetic quality of our products and consistent reproduction of decorated finish patterns.
- We guarantee deliveries to all our customers' production plants, wherever they are, in Italy and Europe.
- Dedicated weekly, monthly or scheduled deliveries.



Professional Kitchens

We work with the leading players in the professional kitchen sector, supplying stainless steel materials with high quality standards, dimensional precision and surface quality. Our solutions are designed to meet the needs of a sector in which reliability, hygiene and durability are fundamental requirements.

Services

- We supply the leading companies in the segment, guaranteeing the required aesthetic standard
- Wide range of 304 and 430 materials in thicknesses from 0.4 to 3.0 mm
- Standard and special finishes
- Wide range of deep-drawing quality (DDQ) materials with proven high formability
- Kanban solutions or dedicated warehouse service
- Pre- and after-sales support
- Structured organisation to manage long-term contracts/global business.

Customer benefits

- Able to meet a variety of dimensional requirements and optimise production efficiency and output.
- A one-stop purchasing opportunity.
- Consistent quality levels across the offer.
- We guarantee deliveries to all our customers' production plants, wherever they are, in Italy and Europe.



Terninox

Industrial sector

Terninox supplies stainless steel products and processing for numerous industrial fields, including plant engineering, the food industry, tanks, metal fabrication and highly specialised technical applications. The wide range of materials available and production flexibility make it possible to meet specific requirements in terms of quality and performance.

Services

- Wide range of 304, 430, 441 and 316L materials; special grades on request
- Wide range of deep-drawing quality (DDQ) materials with proven high formability.
- Services available for every need in the sector: slitting, cutting to length, brushing, satin finishing, polishing.
- Full batch traceability and certified heat test results: certainty of chemical composition and mechanical properties.
- Kanban solutions and dedicated warehouse service.
- Structured organisation for long-term contracts/global business

Customer benefits

- Able to meet a variety of dimensional requirements and optimise production efficiency and output
- Consistent quality levels across the offer
- Identifying the optimal material increases yield and productivity and reduces production scrap.





Certifications

Every activity is managed according to strict quality standards, from material selection through processing to shipment.
The experience of our team, the integration with and support of Arvedi AST, and continuous process control ensure reliability, compliance with the specifications required by the customer and the lasting value of our products.

Arvedi AST Quality System
Acciai Speciali Terni's tradition of managing its production according to a Quality System began in the 1970s, when it obtained the ASME (The American Society of Mechanical Engineers) Quality System Certificate. Today Acciai Speciali Terni has management systems certified to ISO 9001:2015 (Quality), ISO 45001:2018 (Health and Safety), ISO 14001:2015 (Environment), ISO 50001:2018 (Energy) and ResponsibleSteel, issued by the certification body DNV, as well as ASME certification (BPVC for the nuclear market) for the Forging Division and IATF 16949:2016 certification (automotive quality) for the Terni Service Centre and for Tubificio di Terni S.r.l.

Terninox Division Quality System
The Terninox Service Centre with a production site in Ceriano Laghetto (MB) and sales offices in Calenzano (FI) and Mirano (VE) is certified to ISO 9001:2015 (Quality), ISO 14001:2015 (Environment) and ISO 45001:2018 (Health and Safety).



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