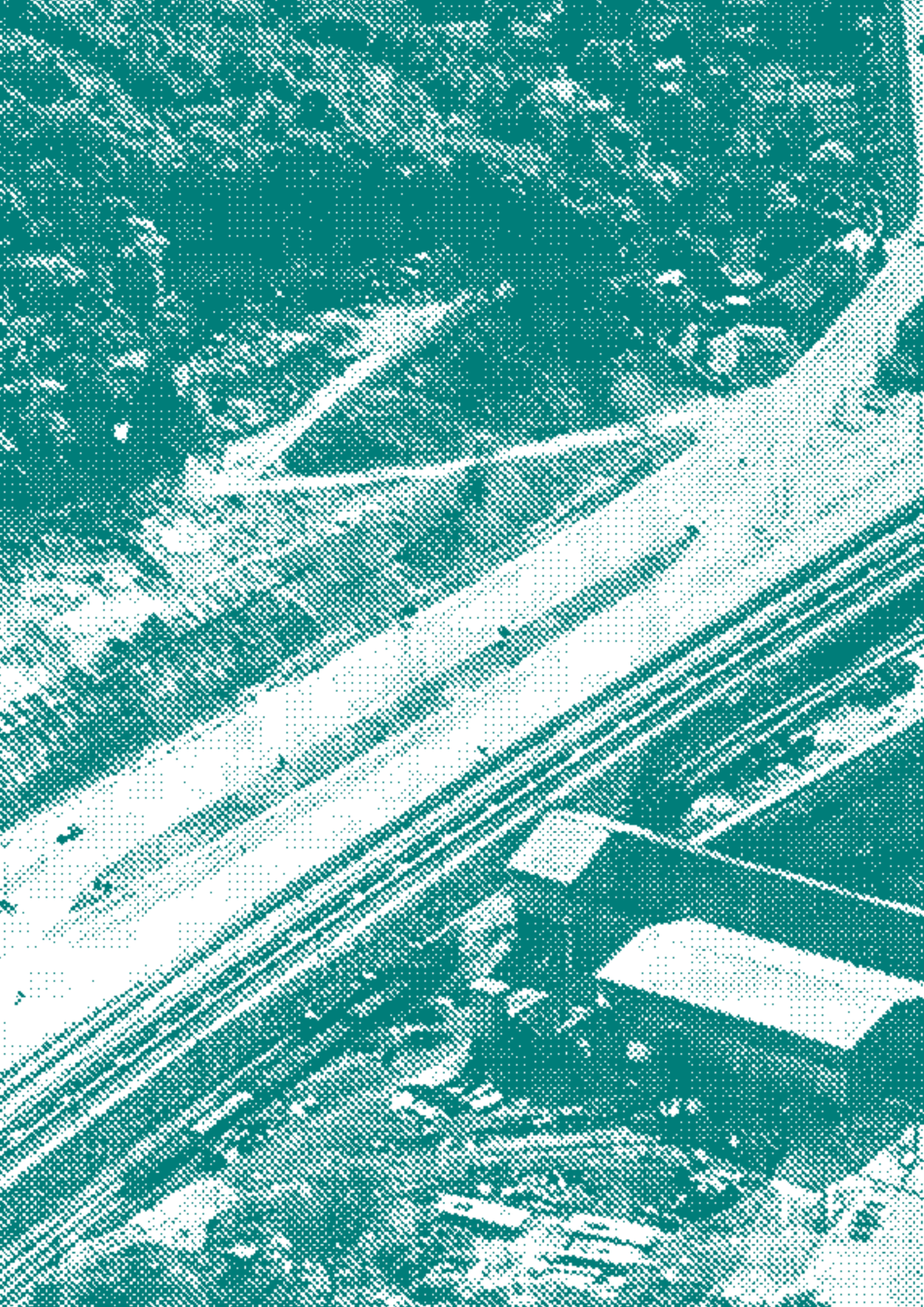
IVA®



SUMMARY

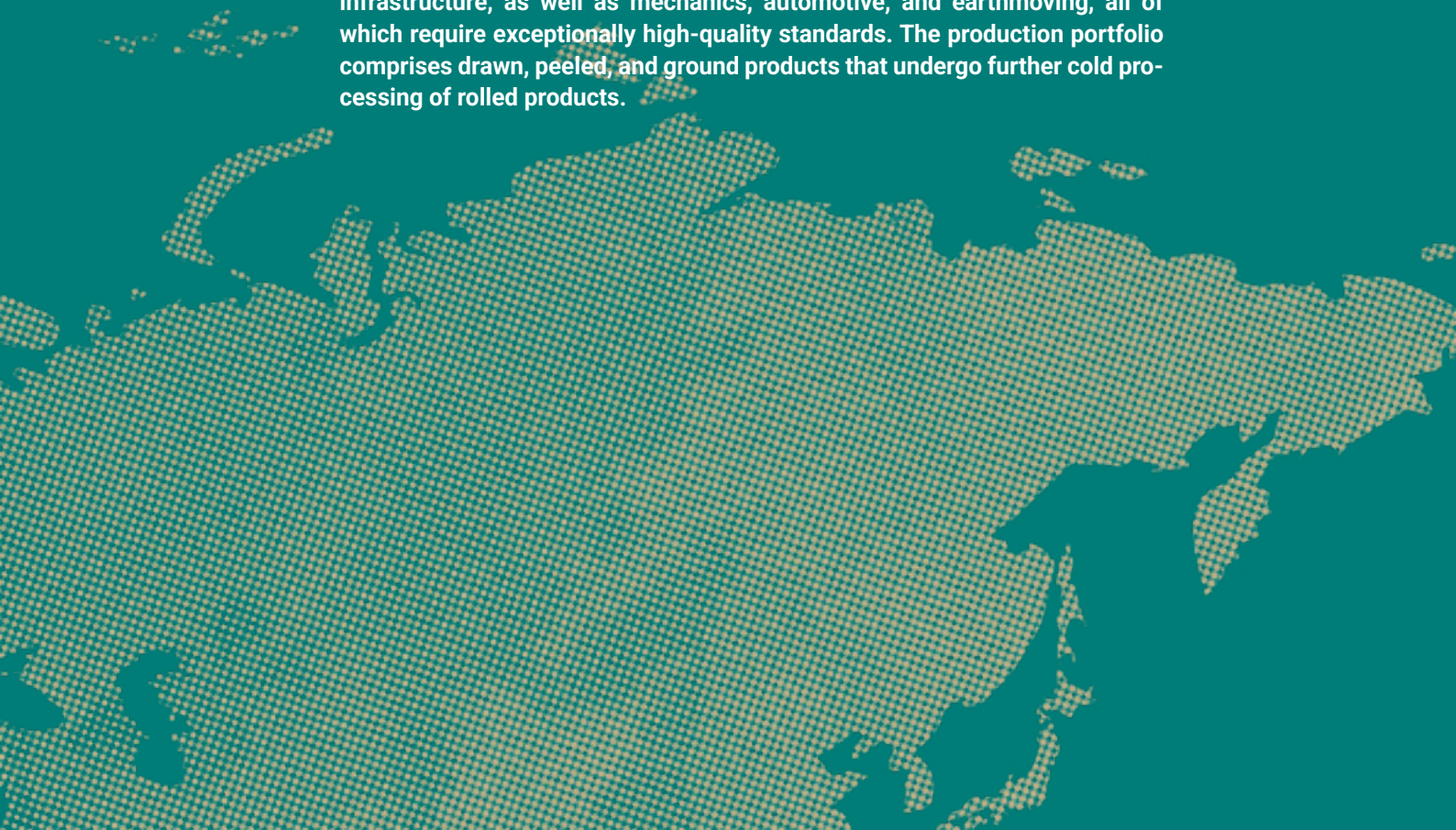
SUCCESS STORY STARTED IN THE MID ’50s

Riva Group plays a pivotal role in fostering a robust economy grounded in the principles of environmental sustainability and respect for mankind. The primary objective is to enhance the quality of life for stakeholders by actively contributing to economic, social, and environmental dynamics.

Established in 1954 by Emilio Riva, a pioneer in the post-war Italian steel industry, the Group has excelled in the production of "long" products utilizing electric arc furnaces. Over more than seven decades, Riva Group has attained international leadership, expanding across major European countries through high production standards, a consistent growth strategy, and substantial investments. The Group's production activities are rooted in a circular and non-extractive economy that emphasizes the recycling of end-of-life steel.

Under the leadership of Claudio Riva since May 2014, the Group remains privately owned and employs over 5,500 individuals, including a growing number of high school and university graduates. With its headquarters in Italy, Riva Group also operates in France, Germany, Belgium, Spain, and Canada, contributing significantly to both local and international economies. The Group holds a notable market share in "long" products, exceeding 10% within the European Union, reaffirming its leadership in this vital market segment. Annually, Riva Group undertakes a substantial investment program aimed at innovating the steel recycling process, enhancing product and process quality, improving employee safety conditions, and ensuring the environmental compatibility of its production.

Riva Group caters to a diverse range of sectors, including construction and infrastructure, as well as mechanics, automotive, and earthmoving, all of which require exceptionally high-quality standards. The production portfolio comprises drawn, peeled, and ground products that undergo further cold processing of rolled products.



FUNDAMENTAL AND UNIFYING VALUES OF THE GROUP

SAFETY IN THE WORKPLACE

Since its inception, Riva Group has consistently prioritized employee protection and well-being. This dedication is evident through the implementation of rigorous health and safety protocols, the procurement of high-quality protective equipment, and the provision of continuous on-the-job training. These initiatives aim to minimize risks and prevent accidents, ensuring a safe and healthy working environment for all employees.

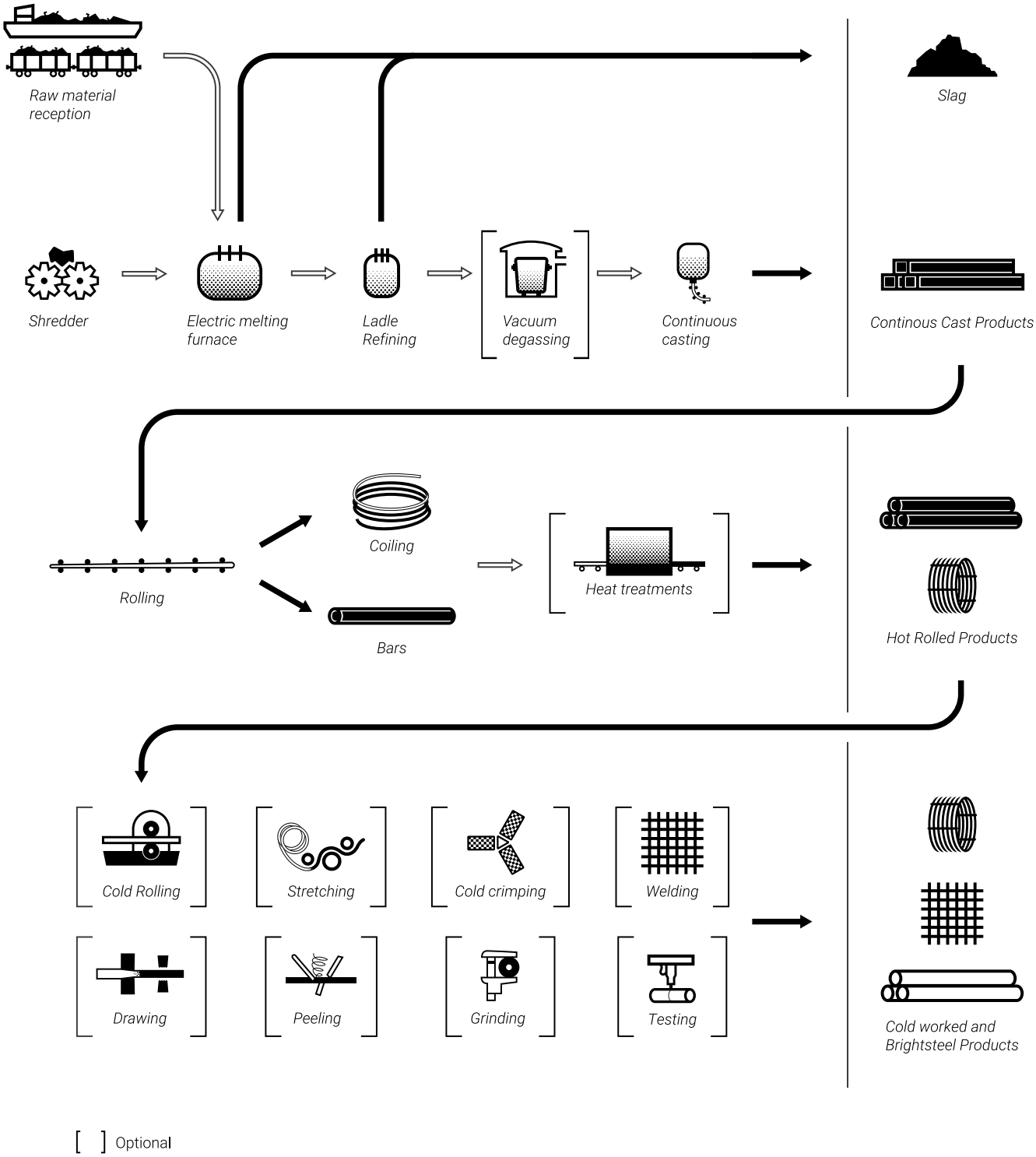
ENVIRONMENT

Environmental stewardship is a core principle at Riva Group. This commitment is realized through a comprehensive management system that enables the company to continuously evaluate and monitor its environmental impact. The primary objective is to minimize the environmental footprint of each facility. Furthermore, every site adheres rigorously to local governmental regulations in the countries where they operate, ensuring full compliance and fostering sustainable practices.

THE PURSUIT OF QUALITY

A key attribute of Riva Group is its steadfast commitment to continuous innovation. This dedication is reflected in the company's emphasis on both automation and the adoption of advanced techniques and technologies. Annually, Riva Group makes substantial investments to improve the quality of its products and processes. In its pursuit of optimization, the Group maintains a strong focus on prioritizing its customers and their needs, ensuring that their requirements remain at the forefront of its efforts.

MANUFACTURING PROCESS



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PRODUCT APPLICATIONS

Riva Group aims to expand the scope of its application fields. The company's extensive production range is designed to meet the specific requirements of a diverse array of sectors, ensuring that it can cater to a wide variety of industry needs.

MAIN MARKETS SERVED

- Construction
- Daily use products
- Automotive
- Agriculture
- Earth moving machines
- Linkage & Bolts
- Pressure equipment
- Oil & Gas

MAIN PURPOSES

- Reinforcement of concrete structures
- Hot forging
- Mechanical machining
- Electrical upsetting
- Cold forging
- Extrusion
- Chrome plating
- Quenching and tempering
- Galvanisation

REACH REGULATION ON QUALITY

Since its inception, Riva Group has diligently monitored the development and implementation of the **REACH regulation**, ensuring the safety of the chemical products manufactured and used in its production processes.

The company remains vigilant about the evolution of the **REACH regulation** and all related legislation, ensuring full compliance with all requirements. Additionally, Riva Group facilitates the dissemination and exchange of information within its facilities and throughout the production and commercial chain.

The **REACH regulation** aims to achieve several key objectives:

Protect human health from diseases caused by substances that are carcinogenic, mutagenic, or toxic for reproduction.

Safeguard the environment by reducing the impact of these harmful substances.

Ensure the safety of employees who handle these substances daily.

Qualité
Sécurité
Environnement

Gestión
Sostenible

QUALITY MANAGEMENT SYSTEM

All of Riva Group's production sites operate under an integrated management system and are certified according to the latest European and international standards. To uphold the principles of its Code of Ethics, enhance competitiveness, and boost customer satisfaction, Riva Group has implemented a quality management system that is certified in accordance with key international regulations, including:

EN ISO 9001:2015

IATF 16949:2016

HEALTH AND SAFETY MANAGEMENT SYSTEM

Ensuring health and safety within the workplace constitutes a fundamental principle of Riva Group's corporate values. In pursuit of this objective, the Group has established comprehensive occupational health and safety policies that are systematically reviewed and updated to maintain their effectiveness.

The production sites operate under management systems that are certified in accordance with the **EN ISO 45001:2018** standard, ensuring a robust framework for identifying and mitigating potential risks.

Riva Group remains unwavering in its dedication to improving **working conditions and enhancing the overall quality of life for its employees**. Employee safety is deeply ingrained in all aspects of the organization's operations, encompassing strategic decision-making processes and targeted investments, thereby exemplifying the Group’s commitment to a culture of responsibility and care.

ENVIRONMENTAL MANAGEMENT SYSTEM

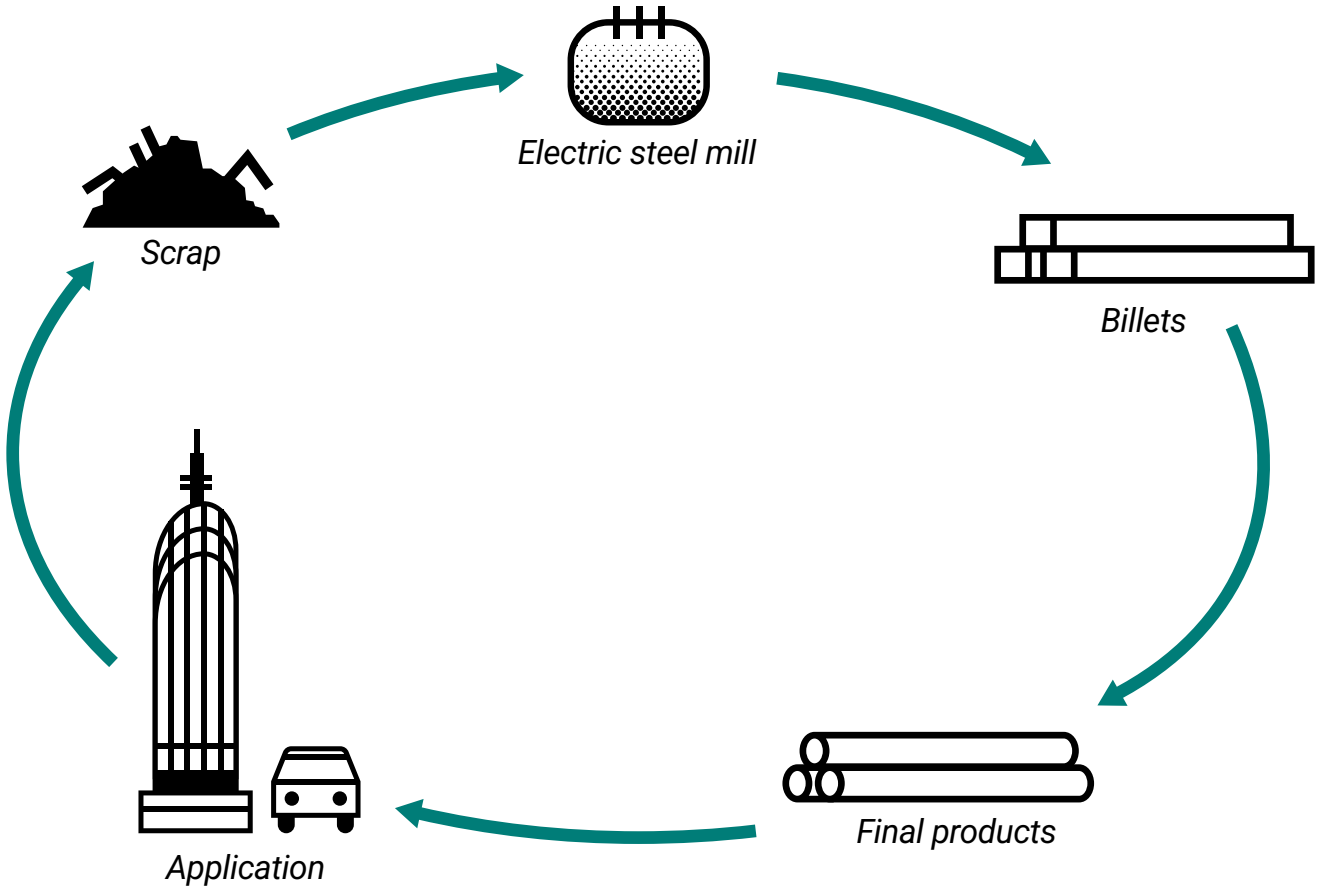
The company is committed to the sustainable development and ecology of the industry. **Sustainable production is a key objective for Riva**, achieved through the adoption of the best available techniques and modern integrated environmental management systems. These practices comply with internationally recognized regulations, including **EN ISO 14001:2015**, as certified.

RIVA'S COMMITMENT TO CIRCULAR ECONOMY

Riva Group aligns with the principles of the circular economy, primarily utilizing electric furnaces that are predominantly powered by **recycled materials**. Through continuous recycling efforts, steel supports the sustainable use of finite resources, ensuring their conservation for future generations. Additionally, Riva Group is dedicated to sustainable water management and consistently implements processes that facilitate the **recycling of water and waste products.**

The Group annually invests in integrating solutions to minimize pollution, **focusing on emissions into the atmosphere, water, and soil.**

THE STEEL OF TOMORROW FROM YESTERDAY'S SCRAP



LIMITING ENERGY CONSUMPTION

Energy management is central to Riva Group's **environmental policy and sustainability philosophy.** Acknowledging the energy-intensive nature of steel production, Riva Group strives to **minimize resource waste.** The Group optimizes its current consumption by accurately calculating parameters for **optimal production and energy use,** making continuous efforts to enhance environmental performance and **reduce its carbon footprint.**

MEMBER OF THE GLOBAL STEEL CLIMATE COUNCIL

As a **member of the Global Steel Climate Council**, Riva Group is dedicated to improving steel production by implementing processes that are safer, cleaner, and reduce emissions.

REINFORCING STEEL

WIRE ROD IN MESH QUALITY

Wire rod for construction purposes is a hot rolled semi-finished product ma- nufactured from continuous cast billets. It has a round cross-section and is wound up in coils.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement.

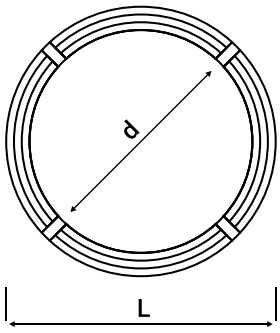
The main steel grades are produced according to different standards, such as:

EN 10025, NF A 35-052 (FR), NF A 35-015 (FR), BS 4449 (GB), BS 4482:2005 (GB)

NOTE: Rewounded wire rod can be produced upon request in order to obtain an almost scale-free surface.

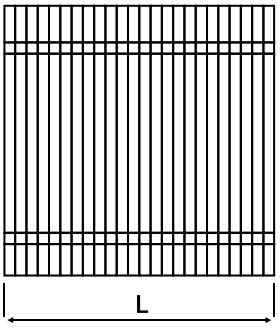
STANDARD MANUFACTURING SIZES

Nominal diameter: 5,5 - 17,2 mm according to EN ISO 16124



External diameter (D):
120 - 130 cm

Internal diameter (d):
80 - 90 cm



Coil length (L):
120 – 200 cm

Coil weight:
1500 – 2400 kg

HOT ROLLED CONCRETE REINFORCING STEEL BARS

Hot rolled ribbed bars are produced from continuous cast billets using the "tempcore", or upon request the "air-cooling" process. These are round-profiled bars with two rows of ribs on the surface. Those help to increase the concrete adherence in the construction industry.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

B450C, B500B, B500C, BE500 S,B400S, B400SD, B500S, B500SD, B500SP, K500B-T, K500C-T, B500NB, B500NC, BST500S, GRADE 40, GRADE 60, S-400, S-400W

According to:

NBN A24-301 to -304 (BE), SIA 262 (CH), DIN 488 (DE), UNE 36065 (ES), UNE 35068 (ES), SFS 1200-1202, 1215 (FI), 1300 (FI), NF A 35-080-1 (FR), BS 4449 (GB), NEN 6008 (NL), PN-H-93220 (PL), LNEC E449 (PT), LNEC E450 (PT), LNEC E455 (PT), LNEC E460 (PT)

STANDARD MANUFACTURING SIZES

Nominal diameter:

8; 10; 12; 14; 16; 18; 20; 25; 28; 32 et 40 mm

LENGTHS

5,95 - 24 m

PACKAGING WEIGHT

1500 Kg; 1800 Kg;
2400 Kg; 2500 Kg

PRODUCT CERTIFICATION FOR

BE, CH, CZ, DE, ES, FI, FR, GB, IT, NL, NO, PL, PT, SE, SK.

HOT ROLLED SMOOTH STEEL BARS

Hot Rolled Reinforcing smooth steel bars are produced from continuous cast billets. These smooth bars undergo a final thermal treatment to acquire well-defined mechanical properties.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grade is:

B235 C

According to:

NF A 35-015 (FR)

STANDARD MANUFACTURING SIZES

Nominal diameter:

8; 10; 12; 14; 16; 18; 20; 25; 28; 32 et 40 mm

LENGTHS

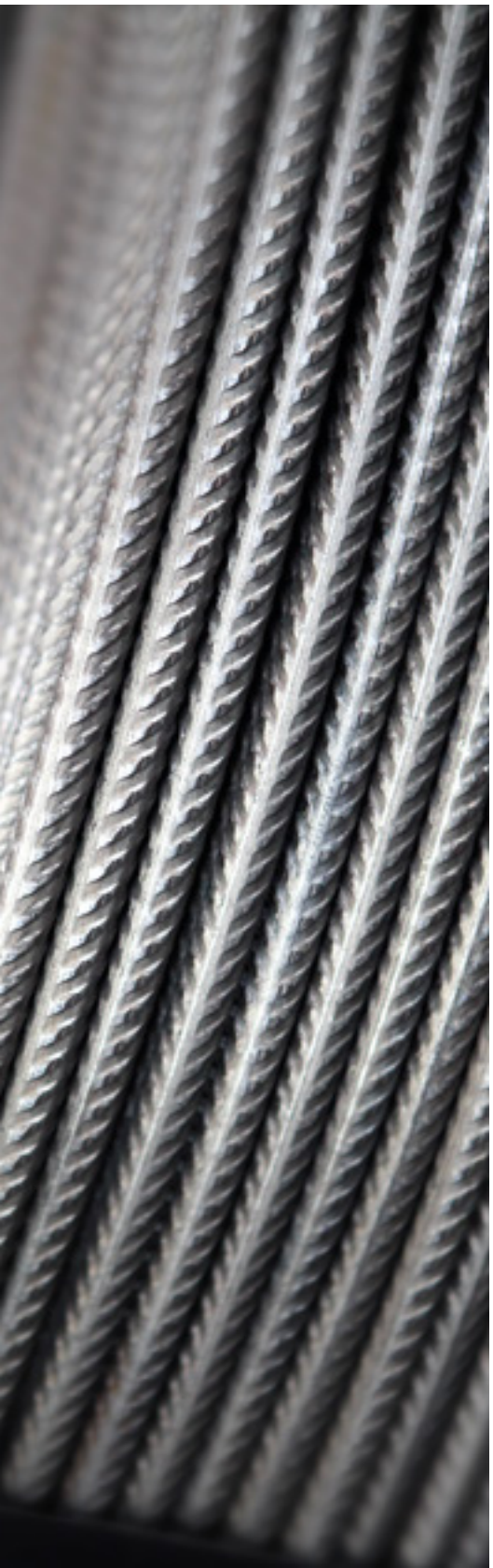
5,95 - 24 m

PACKAGING WEIGHT

1500 Kg; 1800 Kg;
2400 Kg; 2500 Kg

CONCRETE REINFORCING COILS

Cold rolled or hot rolled and stretched or spooled



Concrete reinforcing coils are round cross-section products with a three or four-rib-patterned surface to increase the mechanical anchoring of concrete in the construction industry.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

B450C, B500B, B500C, B500SD, BE500S, B500S, B500SP, K500B-KR, K500C-KR, B500NB, B500NC, BST500S, B500A

According to:

NBN A24-301 to -304 (BE), SIA 262 (CH), DIN 488 (DE), UNE 36065 (ES), UNE 36068 (ES), NF A 35-080-1 (FR), BS4449 (GB), NEN 6008 (NL) PN-H-93220 (PL), SFS 1200-1202, 1215 (SE).

STANDARD MANUFACTURING SIZES

Nominal diameter:

5; 6; 8; 10; 12; 14 et 16 mm (B500A)

6; 8; 10; 12; 14; 16 et 20 mm (B500B)

6; 8; 10; 12; 14 et 16 mm (B550B)

8, 10; 12; 16 mm (B500C)

8, 10; 12 and 16 mm (B500SD)

PACKAGING WEIGHT

1000 kg; 1500 Kg; 1800 Kg; 2500 Kg; 3000 Kg; 4000 Kg; 5000 Kg; 8000 Kg
Other weights can be agreed upon request

PRODUCT CERTIFICATION FOR

AT, BE, CH, CZ, DE, DK, ES, FI, FR, GB, IT, NL, PL, SE, SK

SMOOTH REINFORCING STEEL COILS

Cold rolled and spooled

These are products with a round cross-section and a drawing-smooth surface that can be used to manufacture reinforcement products.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

B500A+G

According to:

DIN 488 (DE)

STANDARD MANUFACTURING SIZES

Nominal diameter:

4-12 mm (B500A +G (DE))

PACKAGING WEIGHT

1000 Kg; 1500 Kg; 2000 Kg; 2500 Kg; 3000 Kg; 4000 Kg; 5000 Kg

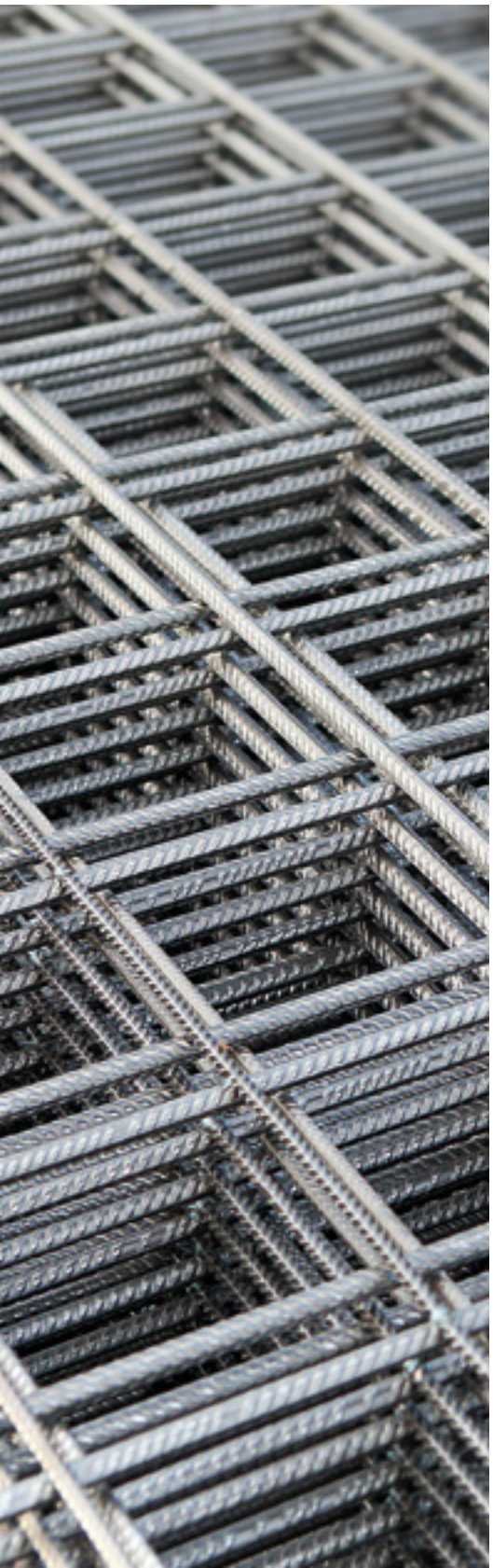
FORM

Cylindrical and/
or conical tapered

PRODUCT CERTIFICATION FOR

DE

WELDED MESH



Welded mesh is manufactured by electrically welding steel wire, ribbed or indented.

The wire mesh supplied by Riva are square or rectangular meshes. The mesh panels are used e.g. as flexible armoring for foundations, walls and ceilings. This product, in addition to its sustaining function in structures, is highly elastic. On buildings in seismic areas, the properties of B500B meshes guarantee adequate strain absorption.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

B450C, B500A, B500B, B550B, B600A

According to:

NBN A24-301 to 304 (BE), SIA 262 (CH), DIN 488 (DE), DS/Inf 165 (DK), NF A 35 080-2 (FR), BS4449 (GB), DM 17/01/2018 (IT), NEN 6008 (NL), SS212540 (SE).

STANDARD MANUFACTURING SIZES

Nominal diameter:

4 - 12 mm

Customized Special Mesh can be produced aligned to client's design upon request.

PRODUCT CERTIFICATION FOR

BE, CH, DE, DK, FR, IT, NL, PL, SE

COLD-ROLLED REINFORCING STEEL BARS

Cold rolled reinforcing steel bars are round bars with three rows of ribs or a drawing-smooth surface.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

B500A, B500A+G, B500A+P, B500B

According to:

NBN A 24-303 (BE), NBN A 24-301 (BE), DIN 488 (DE), NFA 35-080-1(FR), NEN6008 (NL)

STANDARD MANUFACTURING SIZES

Nominal diameter:

5 - 12 mm

LENGTHS

1,0 - 14 m

PACKAGING WEIGHT

500 Kg; 1000 Kg;
2000 Kg; 2500 Kg

HOT ROLLED BEAMS AND CHANNELS

Steel beams and channels are essential structural elements designed to resist lateral loads across their axis. Primarily used in construction, civil engineering, and heavy industries, they provide strength and stability, ensuring the integrity of various structural systems.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

S275/S355 according to EN 10025 (other grades can be agreed upon request)

STANDARD MANUFACTURING SIZES

IPN: (80 - 120) ; 140 - 200 mm

IPE: (100 - 160) ; 180 - 270 mm

HEA: 100-200 mm

HEB: 100-200 mm

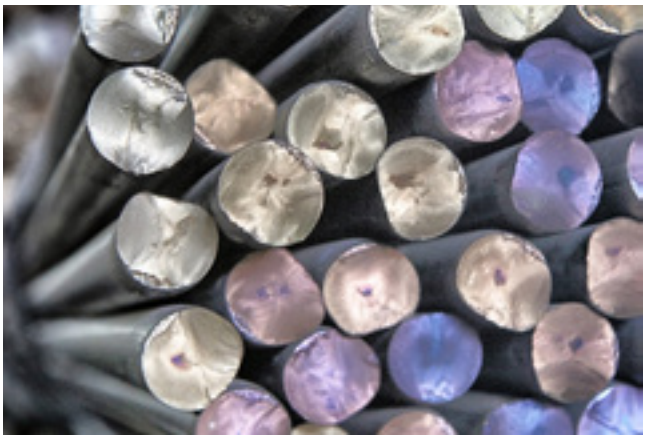
UPN: (100 - 160) ; 180 - 300 mm
() = evaluated upon request

Length:

6,1-18,1 m

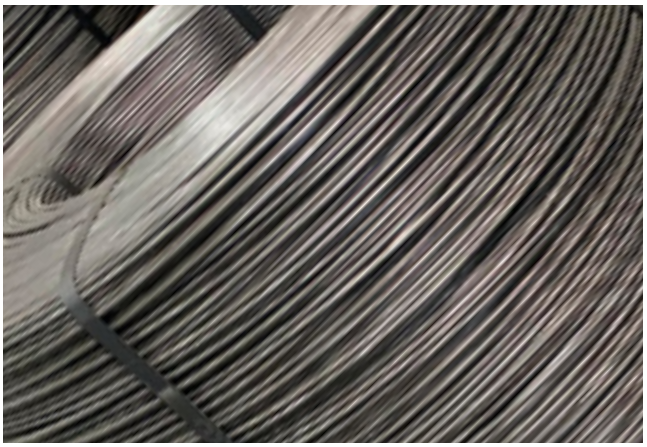
Wire rod in mesh quality

Hot rolled concrete reinforcing steel bars



Hot rolled smooth steel bars

Concrete reinforcing coils



Smooth reinforcing steel coils

Welded mesh

Cold-rolled reinforcing steel bars

Hot rolled beams and channels

Hot rolled merchant bars are manufactured from continuous cast billets. These products are designed for direct use in a wide range of structural applications or may undergo additional treatments, such as cold drawing.

MERCHANT BARS

EQUAL SIDED ANGLES

STEEL RANGE

Riva Group's production flexibility allows the possibility of supply according to Customer Specifications upon agreement. Some examples of main steel grades are:

Structural steels:
EN 10025 - BS 4360/1986 - NF A 35-501/81
Heat-treatable steels, alloy steels and free-cutting steels:
EN ISO 683-1

STANDARD MANUFACTURING SIZES

25 x 25 x 3 - 4 - 5

30 x 30 x 3 - 4 - 5

35 x 35 x 3 - 3,5 - 4 - 5

40 x 40 x 3 - 4 - 5 - 6

45 x 45 x 3 - 4 - 4,5 - 5- 6

50 x 50 x 3 - 4 - 5 - 6

60 x 60 x 4 - 5 – 6

LENGTHS

Standard
6 - 12 m
Extra Standard
4,5 - 6 m; 12 - 16 m

DIMENSIONAL TOLERANCE AND STRAIGHTNESS

According to EN 10056 -
DIN 1028 - BS 4848 Part 4

PRODUCT CERTIFICATION

CE marking according to EN 10025 in compliance with 305/2011/EU Directive on construction products

ROUND MERCHANT BARS

STEEL RANGE

Structural steels:
EN 10025 - BS 4360/1986 - NF A 35-501/81

STANDARD MANUFACTURING SIZES

Rolled sections in bars:
Ø 8 - 160 mm

LENGTHS

3 - 16 m

DIMENSIONAL TOLERANCE AND STRAIGHTNESS

According to EN 10060 ; DIN 1013; NF A 45-001; NF A 45-101

PRODUCT CERTIFICATION

CE marking according to EN 10025 in compliance with 305/2011/EU Directive on construction products

SQUARE MERCHANT BARS

STEEL RANGE

Structural steels:
EN 10025 - BS 4360/1986 - NF A 35-501/81

STANDARD MANUFACTURING SIZES

Sections laminées en barres :
11 - 104,6 mm

LENGTHS

3 – 16 m

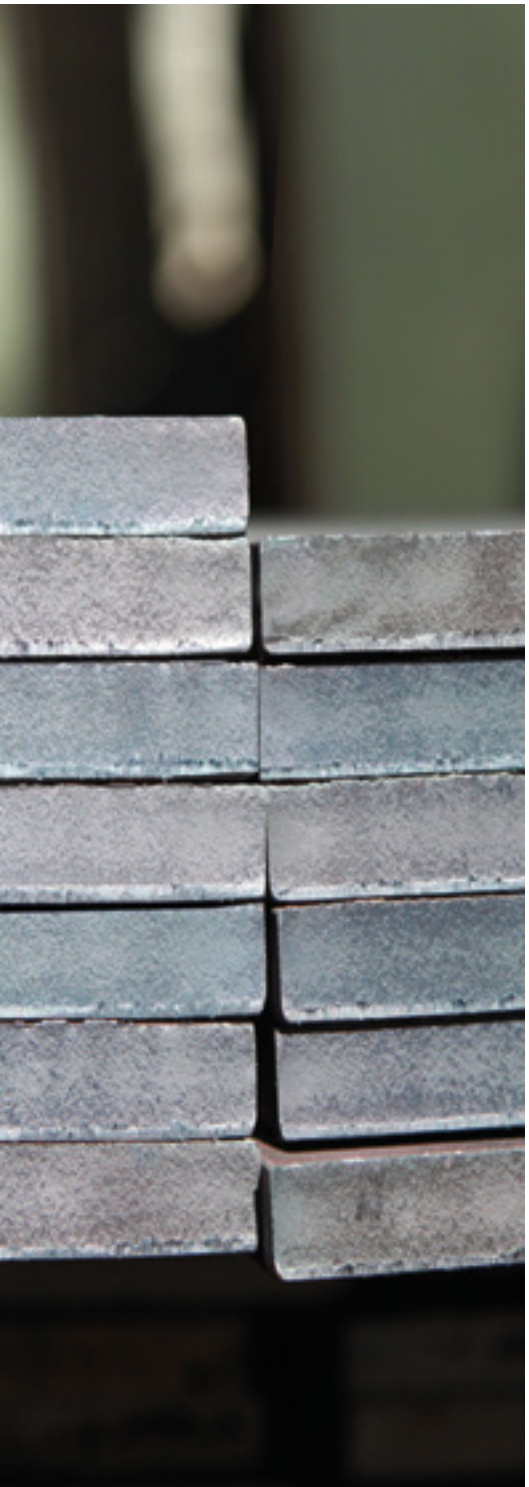
DIMENSIONAL TOLERANCE AND STRAIGHTNESS

According to EN 10059 ; DIN 1014; NF A 45-001; NF A 45-101

PRODUCT CERTIFICATION

CE marking according to EN 10025 in compliance with 305/2011/EU Directive on construction products

FLAT MERCHANT BARS



STEEL RANGE

Structural steels:
EN 10025 - BS 4360/1986 - NF A 35-501/81

STANDARD MANUFACTURING SIZES

Width from 30 to 202 mm
Thickness from 5 to 92 mm

LENGTHS

3 - 16 m

DIMENSIONAL TOLERANCE AND STRAIGHTNESS

According to EN 10058 ; DIN 1017; DIN 59200; NF A 45-001; NF A 45-102

PRODUCT CERTIFICATION

CE marking according to EN 10025 in compliance with 305/2011/EU Directive on construction products

SPECIAL STEEL PRODUCTS

SEMI-FINISHED PRODUCTS FROM CONTINUOUS CASTING

BILLETS AND BLOOMS FROM CONTINUOUS CASTING

Billets and blooms are manufactured in a wide range of grades, either to be used in the hot rolling manufacturing process or directly for hot forging.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

Non-alloy steel for drawing and/or cold rolling
EN ISO 16120

Structural steels
EN 10025

Steels for quenching and tempering
EN ISO 683-1/-2

Case hardening steels
EN ISO 683-3

Free cutting non-alloyed steels
EN ISO 683-4

Hot-rolled steels for quenched and tempered springs
EN 10089

Steels for cold heading and cold extrusion
EN 10263

Micro-alloyed steels
EN 10267

Steels and nickel alloys for fasteners
EN 10269

Steels for pressure purposes
EN 10273 - ASTM A105 - ASTM A350

Vacuum degassing upon request

STANDARD MANUFACTURING SIZES

C.C. Billets: 120 - 130 - 140 - 160 mm
C.C. Blooms: 200 - 260 mm

LENGTHS

C.C. Billets: 3,5 - 12 m
C.C. Blooms: 4 - 12 m

DIMENSIONAL TOLERANCE

According to EN 10031 – UNI 7063 – NF A 43-302

More restrictive tolerances can be agreed upon request

PRODUCT CERTIFICATION FOR

TÜV – AD2000 Merkblatt W0/ TRD100 and EN 764-5 and 2014/68/ EU Directive (PED) for semi-finished products intended for pressure equipment

Accredited by Lloyd's Register as a steel manufacturer

HOT-ROLLED PRODUCTS

HOT ROLLED ROUND STEEL BARS

Hot-rolled round steel bars are generally employed for forging or mechanical machining.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

Structural steels
EN 10025

Free cutting non-alloyed steels
EN ISO 683-4

Case hardening steels
EN ISO 683-3

Steels for quenching and tempering
EN ISO 683-1/-2

Steels for quenched and tempered springs
EN 10089

Steels for cold heading and cold extrusion
EN 10263

Micro-alloyed steels
EN 10267

Steels for pressure purposes
EN 10273 - ASTM A105 - ASTM A350

Bearing steels
EN ISO 683-17

Vacuum degassing upon request

STANDARD MANUFACTURING SIZES

Rolled sections in bars:
Ø 8 - 160 mm

LENGTHS

3 – 16 m

DIMENSIONAL TOLERANCE AND STRAIGHTNESS

Standard
EN 10060; DIN 1013; NF A 45-001; NF A 45-101

Extra Standard
EN 10060 Precision; NF A 45-101 Cal. "B" for Ø ≤ 70 mm

Des tolérances plus restrictives peuvent être convenues sur demande.

HEAT TREATMENTS

Products can be supplied with the following heat treatments:

+A	Soft annealing
+AC	Spherodizing annealing
+SR	Stress-relieving
+FP	Annealing to ferrite-pearlite structure
+N	Normalizing
+QT	Quenching and tempering
+S	Annealing for cold shearing
+TH	Annealing to reach hardness range

PRODUCT CERTIFICATION

TÜV – AD2000 Merkblatt W0 TRD100 and EN 764-5 and 2014/68 EU Directive (PED) for semi-finished products intended for pressure equipment

CE marking according to EN 10025 and EN 10343 in compliance with 305/2011/EU Directive on construction products

NON-DESTRUCTIVE TESTS

Surface crack test according to
EN ISO 9443
Ultrasonic test according to
EN 10308

More restrictive tests can be agreed upon request

HOT-ROLLED PRODUCTS

HOT ROLLED BILLETS

Hot rolled billets have a square cross-section with rounded edges. They are intended for hot forging.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

Structural steels
EN 10025

Free cutting non-alloyed steels
EN ISO 683-4

Case hardening steels
EN ISO 683-3

Steels for quenching and tempering
EN ISO 683-1/-2

Steels for quenched
and tempered springs
EN 10089

Steels for cold heading
and cold extrusion
EN 10263

Micro-alloyed steels
EN 10267

Steels for pressure purposes
EN 10273 - ASTM A105 - ASTM A350

Vacuum degassing upon request

STANDARD MANUFACTURING SIZES

Rolled section in bars:
30 - 120 mm

LENGTHS

3 - 18,2 m

DIMENSIONAL TOLERANCE

According to EN 10031; UNI 7063; NF A 43-302

More restrictive tolerances can be agreed upon request

HEAT TREATMENTS

Products can be supplied with the following heat treatments:

+A	Soft annealing
+AC	Spherodizing annealing
+SR	Stress-relieving
+FP	Annealing to ferrite-pearlite structure
+N	Normalizing
+QT	Quenching and tempering
+S	Annealing for cold shearing
+TH	Annealing to reach hardness range

PRODUCT CERTIFICATION

TÜV – AD2000 Merkblatt W0/ TRD100 and 2014/68/EU Directive (PED) for semi-finished products intended for pressure equipment

CE marking according to EN 10025 in compliance with 305/2011/EU Directive on construction products

NON-DESTRUCTIVE TESTS

Ultrasonic test according to
EN 10308

More restrictive tests can be agreed upon request

HOT-ROLLED PRODUCTS

HOT ROLLED SQUARE STEEL BARS

Hot-rolled round steel bars are generally employed for forging or mechanical machining.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

Structural steels
EN 10025

Free cutting non-alloyed steels
EN ISO 683-4

Case hardening steels
EN ISO 683-3

Steels for quenching and tempering
EN ISO 683-1/-2

Steels for quenched and tempered springs
EN 10089

Steels for cold heading and cold extrusion
EN 10263

Micro-alloyed steels
EN 10267

Steels for pressure purposes
EN 10273 - ASTM A105 - ASTM A350

Vacuum degassing upon request

STANDARD MANUFACTURING SIZES

Rolled sections in bars:
11 - 104,6 mm

LENGTHS

3 – 16 m

DIMENSIONAL TOLERANCE

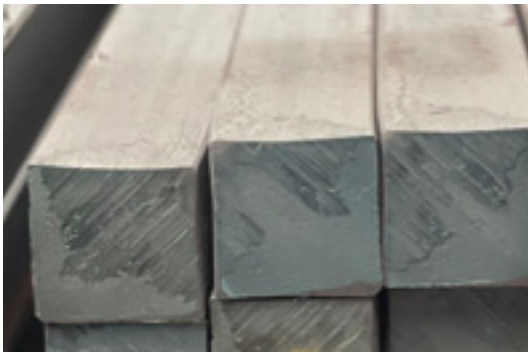
According to EN 10059; DIN 1014; NF A 45-001; NF A 45-101

More restrictive tolerances can be agreed upon request

HEAT TREATMENTS

Products can be supplied with the following heat treatments:

+A	Soft annealing
+AC	Spherodizing annealing
+SR	Stress-relieving
+FP	Annealing to ferrite-pearlite structure
+N	Normalizing
+S	Annealing for cold shearing
+TH	Annealing to reach hardness range



PRODUCT CERTIFICATION

TÜV – AD2000 Merkblatt W0/ TRD100 and 2014/68/EU Directive (PED) for semi-finished products intended for pressure equipment

CE marking according to EN 10025 in compliance with 305/2011/EU Directive on construction products

NON-DESTRUCTIVE TESTS

Ultrasonic test according to
EN 10308

More restrictive tests can be agreed upon request

HOT-ROLLED PRODUCTS

HOT ROLLED FLAT STEEL BARS

Hot rolled square bars have a flat cross-section with sharp edges and are intended either to be further machined or drawn.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

Structural steels
EN 10025

Free cutting non-alloyed steels
EN ISO 683-4

Case hardening steels
EN ISO 683-3

Steels for quenching and tempering
EN ISO 683-1/-2

Steels for quenched
and tempered springs
EN 10089

Steels for cold heading
and cold extrusion
EN 10263

Micro-alloyed steels
EN 10267

Steels for pressure purposes
EN 10273 - ASTM A105 - ASTM A350

Vacuum degassing upon request

STANDARD MANUFACTURING SIZES

Width from 30 to 202 mm
Thickness from 5 to 92 mm
Production of bigger sizes as well as special profiles can be agreed upon request

LENGTHS

3 – 16 m

DIMENSIONAL TOLERANCE

According to EN 10058; DIN 1017; DIN 59200; NF A 45-001; NF A 45-102

More restrictive tolerances can be agreed upon request

HEAT TREATMENTS

Products can be supplied with the following heat treatments:

+A	Soft annealing
+AC	Spherodizing annealing
+SR	Stress-relieving
+FP	Annealing to ferrite-pearlite structure
+N	Normalizing
+S	Annealing for cold shearing
+TH	Annealing to reach hardness range

PRODUCT CERTIFICATION

TÜV – AD2000 Merkblatt W0/ TRD100 and 2014/68/EU Directive (PED) for semi-finished products intended for pressure equipment

CE marking according to EN 10025 in compliance with 305/2011/EU Directive on construction products

NON-DESTRUCTIVE TESTS

Ultrasonic test according to
EN 10308

More restrictive tests can be agreed upon request

HOT-ROLLED PRODUCTS

HOT ROLLED ROUND RINGS

Hot-rolled round rings are mostly intended to undergo either a drawing or peeling process.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

Non-alloy steel for drawing and/or cold rolling
EN ISO 16120 -1/-4

Hot rolled products of structural steels
EN 10025

Steels for quenching and tempering
EN ISO 683-1/2

Case hardening steels
EN ISO 683-3

Nitriding steel
EN ISO 683-5

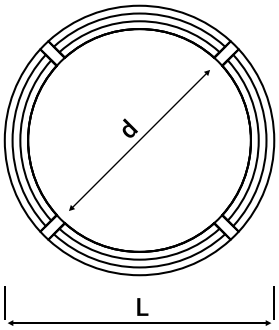
Steel rod, bars and wire for cold heading and cold extrusion
EN 10263

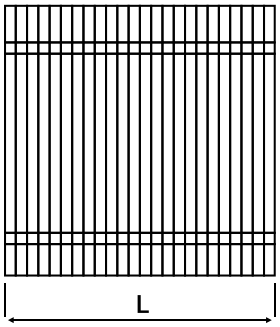
Hot rolled weldable steel bars for pressure purposes with specified elevated temperature properties EN 10273

Specified elevated temperature properties

STANDARD MANUFACTURING SIZES

Nominal diameter: 14 - 42 mm





External diameter (D):
about 135 cm

Internal diameter (d):
about 90 cm

Coil length (L):
Diameter ≥ 14 mm abt. 70 cm

Coil weight:
Diameter ≥ 14 mm abt. 1830 kg

DIMENSIONAL TOLERANCE

According to EN 10017 Table 1

HOT-ROLLED PRODUCTS

WIRE ROD

Wire rod is a hot rolled semi-finished product manufactured from continuous cast billets. It has a round cross-section and is wound up in coils. Quality and Special Steel Wire Rod can be used for a wide field of applications and is either drawn or directly cold formed.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

Non-alloy steel for drawing and/or cold rolling
EN ISO 16120 -1/-4

Hot rolled products of structural steels
EN 10025-2/-3

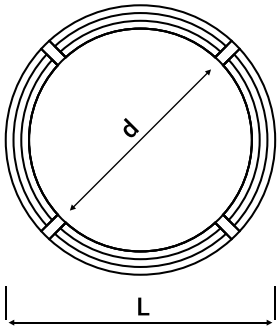
Steel rod, bars and wire for cold heading and cold extrusion
EN 10263

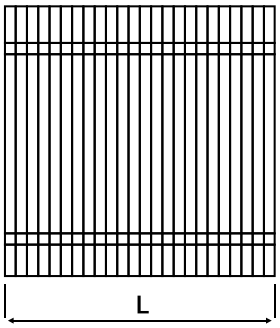
Standard specification for general requirements for wire rods and Coarse round wire, Carbon Steel
ASTM A510

Non-alloy steel wire rod for conversion to wire. Part 2: Specific requirements for general-purpose wire rod
ISO 16120-2

STANDARD MANUFACTURING SIZES

Nominal diameter: 5,5 - 17,2 mm





External diameter (D):
120 - 130 cm

Internal diameter (d):
80 - 90 cm

Coil length (L):
120 – 200 cm

Coil weight:
1500 – 2400 kg

DIMENSIONAL TOLERANCE

According to EN 10017 Table 1

PRODUCT CERTIFICATION

AFAQ/AFNOR Certification

CARES

Lloyd's Register Quality Assurance

BRIGHT STEEL PRODUCTS

DRAWN BARS / DRAWN ROUND STEEL BARS

Drawn bars are cold-processed products which are used for mechanical applications. This particular process enables the achievement of the desired sizing of the bar with tight dimensional tolerances. In addition, this process increases the mechanical properties of the bars.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

Cold-finished steels
EN 10277

- Structural steels
  EN 10025
- Free cutting non-alloyed steels
  EN ISO 683-4
- Case hardening steels
  EN ISO 683-3
- Steels for quenching and tempering
  EN ISO 683-1/-2

Hot-rolled steels for quenched and tempered springs
EN 10089

Steels for cold heading and cold extrusion
EN 10263

Micro-alloyed steels
EN 10267

Nitriding steel
EN ISO 683-5

Non-alloy steel for drawing and/or cold rolling
EN ISO 16120

Steels and nickel alloys for fasteners
EN 10269

Flame and Induction Hardening Steels
DIN 17212

Vacuum degassing upon request

STANDARD MANUFACTURING SIZES

Drawn round bars: Ø 8 - 120 mm

LENGTHS

2,8 – 7,2 m

DIMENSIONAL TOLERANCE

According to EN 10277 – ISO 286 – BS 970 – ASTM A 108

Standard
IT10 - IT11

Extra standard
IT9

More restrictive tolerances can be agreed upon request

STRAIGHTNESS

Standard
Deviation ≤ 1‰ L

Extra Standard
Deviation ≤ 0,5‰ L

HEAT TREATMENTS

Products can be supplied with the following heat treatments:

+A	Soft annealing
+AC	Spherodizing annealing
+SR	Stress-relieving
+FP	Annealing to ferrite-pearlite structure
+N	Normalizing

+S	Annealing for cold shearing
+TH	Annealing to reach hardness range

PRODUCT CERTIFICATION

TÜV
DNV
Germanischer Lloyd
SGS
Lloyd´s Register
Deutsche Bahn AG

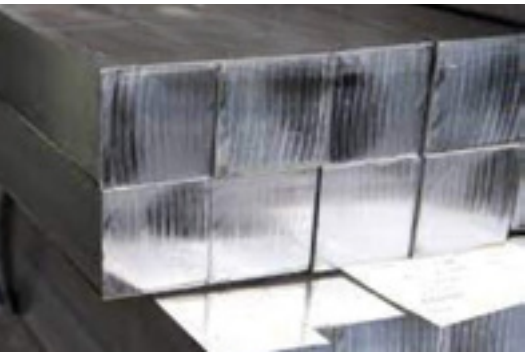
NON-DESTRUCTIVE TESTS

Surface crack test according to EN 10277
Ultrasonic test according to EN 10308

More restrictive tests can be agreed upon request

BRIGHT STEEL PRODUCTS

DRAWN SQUARE STEEL BARS



GAMME D'ACIER

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

Cold-finished steels
EN 10277

- Structural steels
  EN 10025
- Free cutting non-alloyed steels
  EN ISO 683-4
- Case hardening steels
  EN ISO 683-3
- Steels for quenching and tempering
  EN 683-1/-2

Hot-rolled steels for quenched and tempered springs
EN 10089

Steels for cold heading and cold extrusion
EN 10263

Micro-alloyed steels
EN 10267

Steels for pressure purposes
EN 10273 - ASTM A105 - ASTM A350

Vacuum degassing upon request

STANDARD MANUFACTURING SIZES

Drawn square bars:
30 – 101,6 mm

Production of special profiles can be agreed upon request

LONGUEURS

2,8 – 6,8 m

DIMENSIONAL TOLERANCE

According to EN 10277 – ISO 286 – BS 970 – ASTM A108

Standard
IT11

Extra Standard
IT10 - ASTM A108 - BS 970

More restrictive tolerances can be agreed upon request

STRAIGHTNESS

Standard
Deviation ≤ 1‰ L

HEAT TREATMENTS

Products can be supplied with the following heat treatments:

+A	Soft annealing
+AC	Spherodizing annealing
+SR	Stress-relieving
+FP	Annealing to ferrite-pearlite structure
+N	Normalizing
+S	Annealing for cold shearing
+TH	Annealing to reach hardness range

NON-DESTRUCTIVE TESTS

Ultrasonic test according to EN 10308

More restrictive tests can be agreed upon request

BRIGHT STEEL PRODUCTS

DRAWN FLAT STEEL BARS

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

Cold-finished steels
EN 10277

- Structural steels
  EN 10025
- Free cutting non-alloyed steels
  EN ISO 683-4
- Case hardening steels
  EN ISO 683-3
- Steels for quenching and tempering
  EN 683-1/-2

Hot-rolled steels for quenched and tempered springs
EN 10089

Steels for cold heading and cold extrusion
EN 10263

Micro-alloyed steels
EN 10267

Steels for pressure purposes
EN 10273 - ASTM A105 - ASTM A350

Vacuum degassing upon request

STANDARD MANUFACTURING SIZES

Drawn flat bars: width from 35 to 200 mm with thickness from 6 to 90 mm. Production of special profiles and other sizes can be agreed upon request

LENGTHS

2,8 – 6,8 m

DIMENSIONAL TOLERANCE

Standard
Width: ≤ 140 mm: IT11 ISO 286; Width > 140 mm: EN 10277
Thickness: IT11 ISO 286

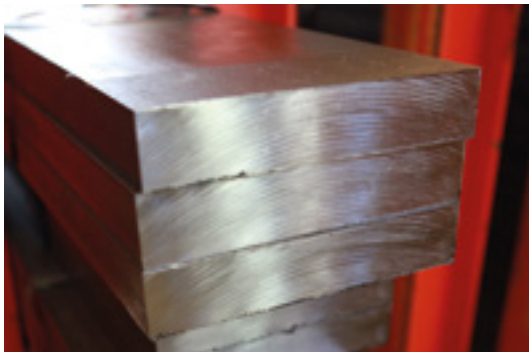
Extra standard
ASTM A108; BS 970

More restrictive tolerances can be agreed upon request

STRAIGHTNESS

Standard
≤ 1,5‰ L for length ≤ 200 mm
≤ 2,0‰ L for length > 200 mm

Extra Standard
≤ 1‰ L for length > 200 mm
≤ 1,5‰ L for length > 200 mm



HEAT TREATMENTS

Products can be supplied with the following heat treatments:

+A	Soft annealing
+AC	Spherodizing annealing
+SR	Stress-relieving
+FP	Annealing to ferrite-pearlite structure
+N	Normalizing
+S	Annealing for cold shearing
+TH	Annealing to reach hardness range

NON-DESTRUCTIVE TESTS

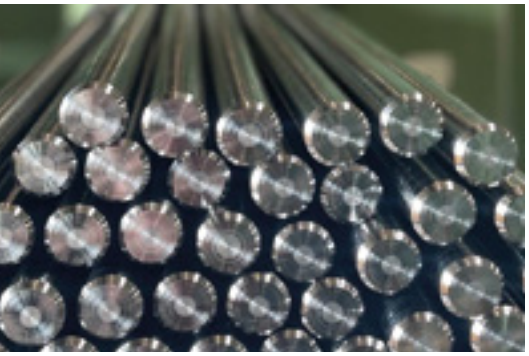
Ultrasonic test according to
EN 10308

More restrictive tests can be agreed upon request

BRIGHT STEEL PRODUCTS

PEELED ROUND STEEL BARS

Peeled bars are produced by the chip removal process from hot rolled bars to obtain high dimensional accuracy and a smooth and polished surface. Peeling is followed by polishing with straightness control and improvement of roughness.



STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

Cold-finished steels
EN 10277

Structural steels
EN 10025

Free cutting non-alloyed steels
EN ISO 683-4

Case hardening steels
EN ISO 683-3

Steels for quenching and tempering
EN 683-1/-2

Hot-rolled steels for quenched and tempered springs
EN 10089

Steels for cold heading and cold extrusion
EN 10263

Micro-alloyed steels
EN 10267

Nitriding steel
EN ISO 683-5

Non-alloy steel for drawing and/or cold rolling
EN ISO 16120

Steels and nickel alloys for fasteners
EN 10269

Flame and Induction Hardening Steels
DIN 17212

Steels for pressure purposes
EN 10273 - ASTM A105 - ASTM A 350

Bearing steels
EN ISO 683-17

Vacuum degassing upon request

STANDARD MANUFACTURING SIZES

Peeled round bars Ø 8 - 150 mm

LENGTHS

2,8 – 7,8 m

DIMENSIONAL TOLERANCE

According to EN 10277 – ISO 286 – BS 970 – ASTM A108

Standard
T10 – IT11 - IT12 - IT13 - BS 970

Extra Standard
IT9 - ASTM A108

More restrictive tolerances can be agreed upon request

STRAIGHTNESS

Standard
Deviation ≤ 1‰ L
Extra Standard
Deviation ≤ 0,5‰ L
More restrictive straightness can be agreed upon request

HEAT TREATMENTS

Products can be supplied with the following heat treatments:

+A	Soft annealing
+AC	Spherodizing annealing
+SR	Stress-relieving
+FP	Annealing to ferrite-pearlite structure
+N	Normalizing
+QT	Quenching and tempering
+S	Annealing for cold shearing
+TH	Annealing to reach hardness range

PRODUCT CERTIFICATION

TÜV
DNV
Germanischer Lloyd
SGS
Lloyd´s Register
Deutsche Bahn AG

NON-DESTRUCTIVE TESTS

Surface crack test according to EN 10277
Ultrasonic test according to EN 10308

More restrictive tests can be agreed upon request

BRIGHT STEEL PRODUCTS

ROUND GROUND BARS

Ground bars are processed in the grinding machine. This processing enables the dimensional sizing of the bars to the tightest tolerances and a surface with controlled and smooth roughness.

STEEL RANGE

Riva Group's production flexibility allows to supply according to Customer Specifications upon agreement. The main steel grades are:

Cold-finished steels
EN 10277

- Structural steels
  EN 10025
- Free cutting non-alloyed steels
  EN ISO 683-4
- Case hardening steels
  EN ISO 683-3
- Steels for quenching and tempering
  EN ISO 683-1/-2

Hot-rolled steels for quenched and tempered springs
EN 10089

Steels for cold heading and cold extrusion
EN 10263

Micro-alloyed steels
EN 10267

Nitriding steel
EN ISO 683 - 5

Non-alloy steel for drawing and/or cold rolling
EN ISO 16120

Steels and nickel alloys for fasteners
EN 10269

Flame and Induction Hardening Steels
DIN 17212

Steels for pressure purposes
EN 10273 - ASTM A105 - ASTM A350

Bearing steels
EN ISO 683-17

Vacuum degassing upon request

STANDARD MANUFACTURING SIZES

Round ground bars: Ø 10 - 150 mm

LENGTHS

2,8 – 7,5 m

DIMENSIONAL TOLERANCE

According to EN10277 – ISO 286

Standard
IT7 - IT8

Extra Standard
IT6

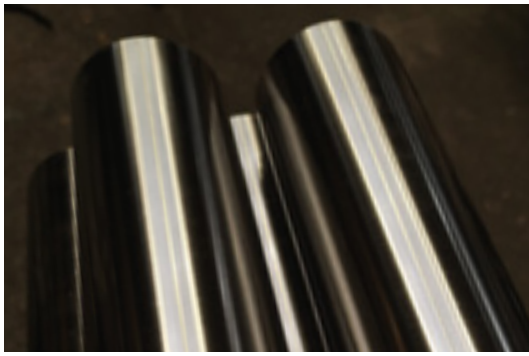
More restrictive tolerances can be agreed upon request

STRAIGHTNESS

Standard
Deviation ≤ 1‰ L

Extra Standard
Deviation ≤ 0,5‰ L

More restrictive straightness can be agreed upon request



HEAT TREATMENTS

Products can be supplied with the following heat treatments:

+A	Soft annealing
+AC	Spherodizing annealing
+SR	Stress-relieving
+FP	Annealing to ferrite-pearlite structure
+N	Normalizing
+QT	Quenching and tempering
+S	Annealing for cold shearing
+TH	Annealing to reach hardness range

PRODUCT CERTIFICATION

TÜV
DNV
Germanischer Lloyd
SGS
Lloyd´s Register
Deutsche Bahn AG

NON-DESTRUCTIVE TESTS

Surface crack test according to EN 10277
Ultrasonic test according to EN 10308

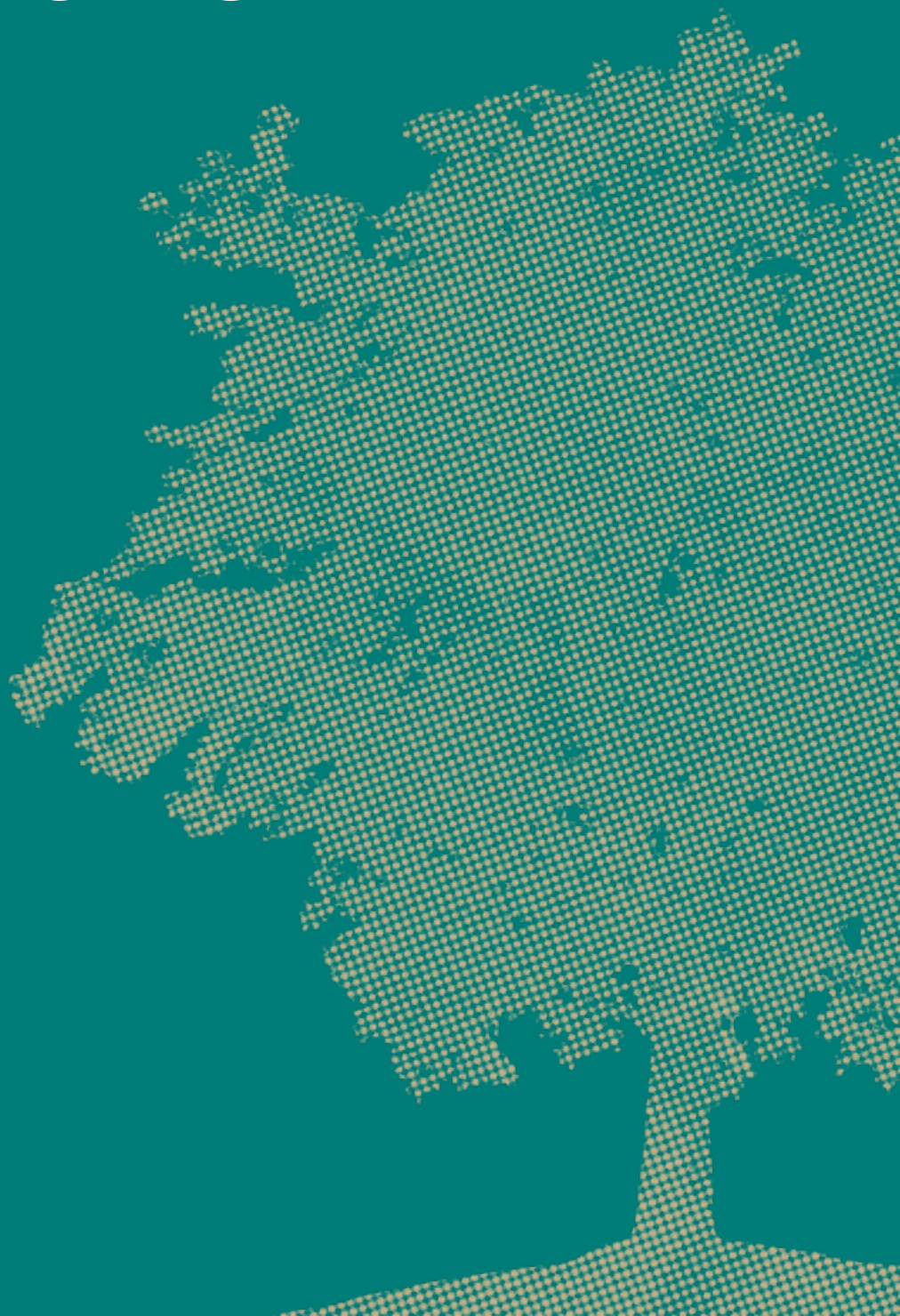
More restrictive tests can be agreed upon request

ENVIRONMENTALLY FRIENDLY SOLUTIONS

RECYCLING AT THE CORE OF OUR BUSINESS GROWTH

Environmental sustainability is an important aspect of Riva Group's business. Green practices are integrated into various stages of the manufacturing process, from raw material collection to finished goods production. Over the years, efforts have been made to enhance the company's environmental impact.

The use of mill scale, white slag, steel aggregates, and the separation of non-ferrous metals and solid recovered fuels (SRF), aligns with the goals of the new Circular Economy Law by providing innovative solutions in production processes and resource management. These recovery processes significantly reduce the use of natural resources and minimize waste production. They also promote collaboration and exchange among interested parties.



MILL SCALE

Mill scale is a granular layer that forms on the surface of heated metals when they come into contact with air. It is produced during the rolling process for steel billets and hot iron in rolling mills, as part of the manufacturing operations for carbon steel by the electric arc furnace (EAF).

This material serves as a high-quality secondary raw material for various processes requiring ferric oxide additives and counterweights.

IDENTIFICATION REACH

Number EC 266-007-8

QUALITY EXTRACTION

Mill scale forms when hot steel meets air. It is removed from the surface using pressurized water and later separated by density.

MAIN APPLICATION

Mill scale scale can be utilized for:

- Enrichment of Iron oxide for Clinker manufacturing in cement plants
- Production of sodium hypochlorite
- Substitution of Iron ore (raw material) for sintered material's production to feed blast furnaces
- Counterweights

COMPOSITION

Mill scale is a non-hazardous, solid, inorganic material, shiny grey in colour and odourless, scaly in nature and varied granulometry

pH	8
Melting point	> 1.500 °C
Solubility	insoluble in water
Density	2,51-4,89 kg/dm3 (20 °C)

MAJOR COMPONENT

Constituent	**Typical range, % m/m**
Iron oxides [Fe_2O_3, Fe_3O_4, FeO]	> 85%
C, Si, Ca, Na, Al, Mn, and other metal oxides	<10% each [components are listed in elemental form, but are present in other oxidation states]
Oil content	<1%

The group "other metal oxides" does not contain hazardous substances exceeding the limits set by Regulation (EC) No. 1272/2008 on Classifica-tion, Labelling and Packaging of Substances and Mixtures (CLP) for classifi-cation purposes. Consequently, Mill Scale is not classified as hazardous. This determination is based on the current legally binding Adaptation to Technical Progress (ATP) of the CLP regulation.

WHITE SLAG

White slag is generated during the secondary metallurgical process occurring in the ladle refining furnace (LF), as part of the manufacturing **operations for carbon steel by the electric arc furnace (EAF).**

This material serves as a high-quality **secondary raw material** for applications requiring ferric calcium oxide additives (CaO).

WHITE SLAG

IDENTIFICATION REACH

EC number 266-004-1

QUALITY EXTRACTION

The recovery process consists of screening the white slag, produced in the steelworks by removing every little part of steel.

Size distribution 0-12 mm granulometry

Removal of steel particles method Powerful magnets

MAIN APPLICATION

The quality of this secondary raw material allows its use for:

- Partial substitution of the enrichment of limestone ($CaCO_3$), for clinker's manufacturing in cement kilns

The substitution of limestone for white slag helps for:

- Decarbonization of the manufacturing process for clinker by lessening the CO_2 impact and greenhouse gases global emission

PRODUCT CERTIFICATION

CE marking certification

Factory production control confirmation certificate

Declaration of performance

Tests that are required by technical regulations and existing environmental legislation

STEEL AGGREGATES

Steel aggregates, a by-product of the steelmaking process, are generated during the fusion of steel scrap in the production **of carbon steel using an electric arc furnace (EAF).**

These aggregates are distinguished by their **superior technical quality** and their manufacturing process, which supports the principles of a circular economy.

BLACK SLAG

AGGREGATE 0-22,4

AGGREGATE 0-20

IDENTIFICATION REACH

EC number 932-275-6

QUALITY EXTRACTION

The recovery process involves crushing, grinding, and sifting the initial black slag to ensure market-quality products.

We guarantee our adherence to technological standards in accordance with the following specifications:

CE Marketing certificate

Environmental requirements

Size distribution
0-200 mm granulometry

MAIN APPLICATION

The quality of this secondary raw material allows:

Substitution of natural resources for road fillings, sublayers of roadways and parking lots, asphalt mixtures, and other related applications.

Adherence to technical standards, including mandatory CE marking certification and other tests required by technical regulations and environmental legislation.

Following deferrization, crushing, and screening processes, the slag is available in various commonly requested granulometries (mm).

Type of granulometry (mm)	Application
Electric arc furnace sand 0/2 - 0/5 - 0/8	Bedding, coating, backfill material, paving stone laying, and similar
Electric arc furnace steel slag gravel 0/20 - 0/31,5 - 0/80 - 0/200	Subgrade, road bases, roads and tracks, unpaved, technical backfill, raw material for the manufacture of rock wool, and similar
Crushed Electric arc furnace steel slag 20/60 - 60/80 - 80/200	Railroad ballast, hydraulic constructions (dykes, banks),gabions, Weight mask, backfill under structure, draining sub-layer, and similar
Electric arc furnace gravel 4/6 - 6/10	Surface coatings, asphalt coatings, drainage, and similar

CHEMICAL COMPOSITION

Constituent (Oxide)	Average (%)
Chaux (CaO)	29.5
Fer (FeO)	27.5
Silice (SiO)	16
Alumine (Al O)	8.5
Manganèse (MnO)	5.5
Magnésie (MgO)	5

MECHANICAL COMPOSITION

The physical and mechanical properties of slag allow it to be assimilated to aggregates of category A as defined by the XP P18-545 standard (March 2008):

Constituent	Property
Friability of sands - NF P 18-576	14,6 vaguely crumbly
Density PROCTOR-NF P 94-093	1,5 à 5% of water 0,65 compactness index
Immediate bearing index-NF P 94-078	110 à 7,4% of water, good capacity to receive loads
Resistance to fragmentation (LA) - NF EN 1097-2	14
Wear resistance (MDE) - NF EN 1097-1	8
Water soluble sulfate content - NF EN 1744-1	< 0,01%
Volumic mass (T/m3) - NF EN 1097-6	1,69

PRODUCT CERTIFICATION

CE marking certification

Factory production control confirmation certificate

Declaration of performance

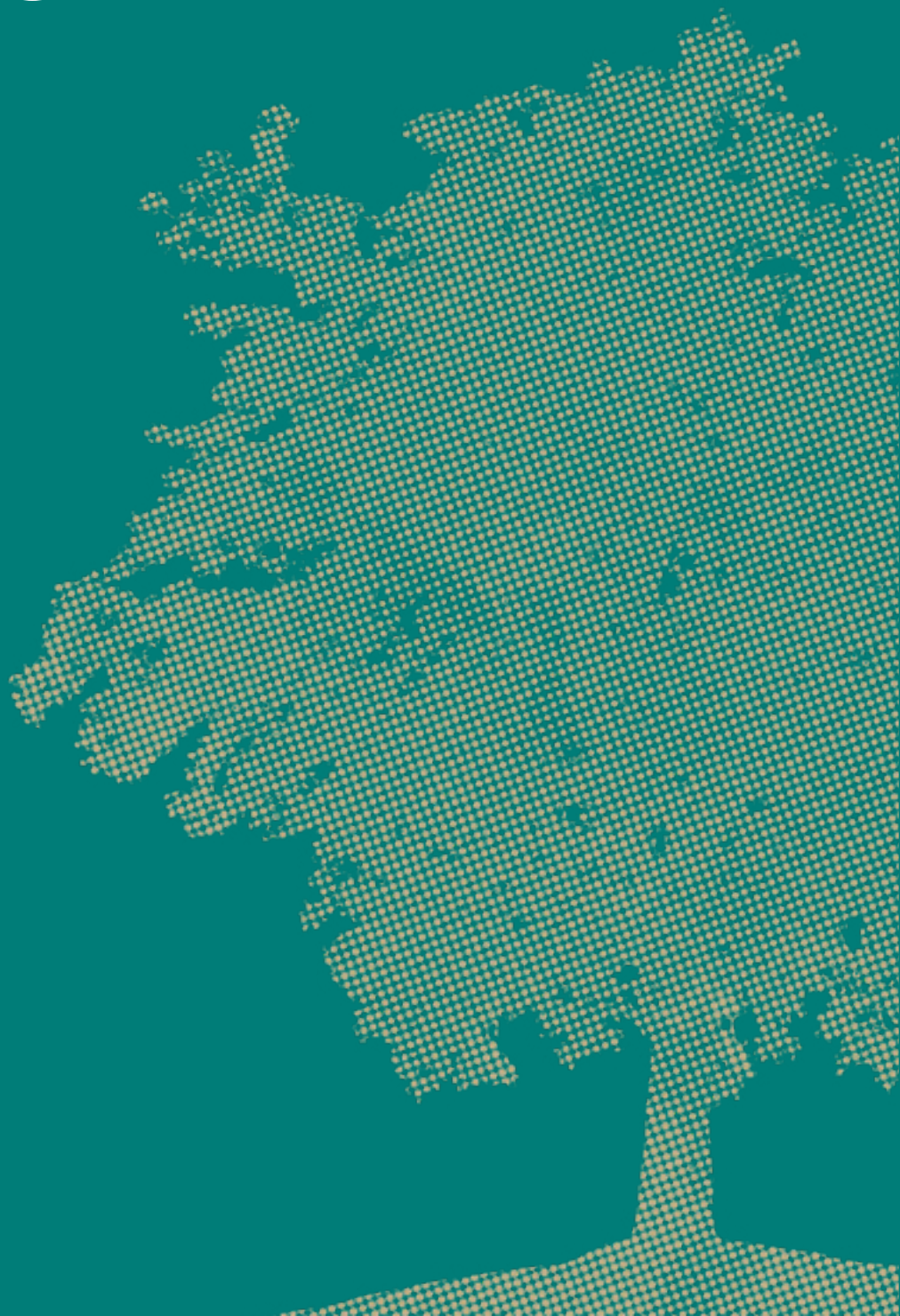
Tests that are required by technical regulations and existing environmental legislation

SHREDDER AND NON-FERROUS METALS

The Riva Group has always demonstrated its commitment to the circular economy by recycling not only ferrous metals for steelmaking, but also non-ferrous metals.

Thanks to its strategic location and the use of multimodal means of transport (river, rail and road), the Riva Group is able to offer its customersa high-quality service.

The purchase and recovery of non-ferrous metals by TRENTE-TROIS companies is fully in line with this responsible and sustainable approach.



GENERAL NON-FERROUS METALS

Type of non-ferrous metals recycled: Aluminium/ Stainless steel/ Cable/ Electric engines.

By integrating these secondary raw materials into its industrial processes, the Riva Group:

- Significantly reduces its carbon footprint, by saving natural resources and energy.
- Secures and diversifies its supplies, thereby guaranteeing the continuity and competitiveness of its manufacturing processes.
- Optimises the quality and traceability of alloys, thanks to perfect control of the supply chain.

Our advantages for our partners:

- Full, transparent traceability with: automatic weighing slips, BSDs (waste tracking slips), 7-stream attestations and destruction certificates.
- Reactivity and flexibility: a wide choice of containers, tailor-made studies, install ation and collection of containers within 24/72h.
- Strong commitment to Quality, Safety, Environment and Sustainable Development (QSEEDD): hydrocarbon separators, retention basins, ISO 9001 and ISO 14001-certified integrated management system, membership of eco-organisations.
- Further recognition of our responsible and ethical commitment with the Gold Membership Certificate.

Clear and advantageous terms and conditions to facilitate and secure our exchanges.

By placing your trust in TRENTETROIS, you can rely on a solid, certified and committed partner, capable of transforming every tonne of non-ferrous metal into genuine economic and environmental added value.

MIXED NON-FERROUS METALS

Copper

Copper

Copper cables

Electric motors

Ground aluminium (zorba)

Ferrous copper armatures rotor/ stator to be treated

MAIN NON-FERROUS METALS

METAL	TECHNICAL CHARACTERISTICS	RECYCLING	AVAILABLE GRADES	COMMERCIAL ADVANTAGES
COPPER	• Exceptional electrical & thermal conductivity • Malleable, ductile, durable • Density 8,96 g/cm3	• 100% recyclable without quality loss • 85% of copper comes from recycling	• Millberry, granules, mixed, new	• Compliant with international standards • Prices indexed to LME
ALUMINIUM	• Very light (2.7 g/cm3) • Corrosion-resistant • Good conductivityv	• Recycling requires only 5% of the ener- gy of primary production	• Profiles, casings • new aluminium or mixed • aluminium rims	• Sorted alloys for homogeneous quality • Permanent stocks for fast delivery
BRASS	• Copper-zinc alloy • Excellent machinability • Mechanical strength & aesthetics	• Properties fully preserved • Highly sought after in plumbing fittings	• Mixed, meters • 1st grade • wires, bars	• Compliant with foundry requirements • Rigorous composition monitoring
ZINC	• Corrosion-resistant • Malleable • Density 7.1 g/cm3	• 30-40% of global zinc comes from recycling	• Old zinc	• Reduced carbon footprint for projects • Availability in industrial volumes
LEAD	• Very dense (11,34 g/cm3) • Malleable • Corrosion-resistant	• 95% of lead used in batteries is recycled • Essential for the automotive sector	• Batteries, old lead	• Strict compliance with environmental standards

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