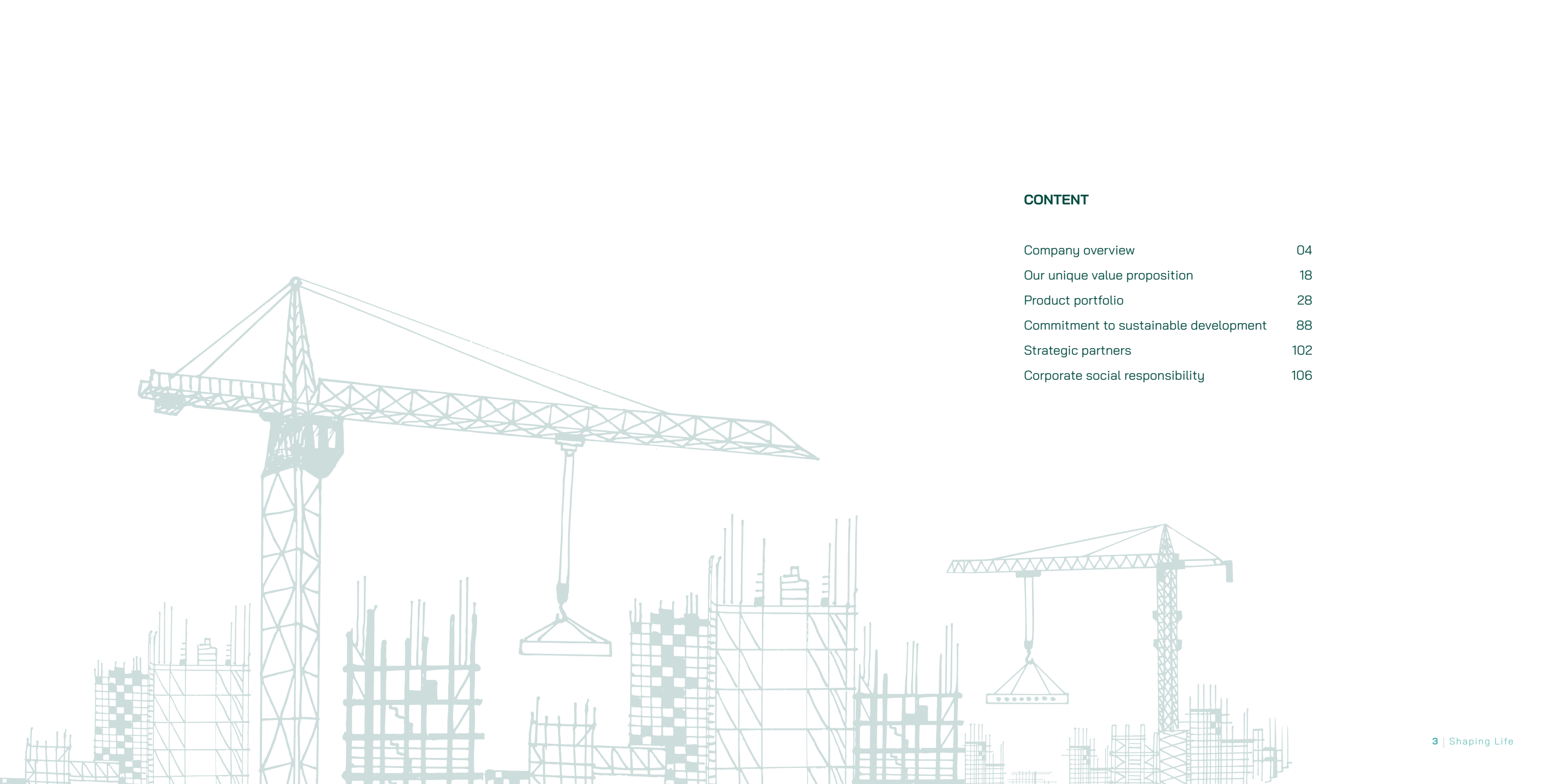




**STAVIAN**<sup>®</sup>  
INDUSTRIAL METAL


Empowering Industries,  
Enhancing Lives





## CONTENT

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**COMPANY OVERVIEW**



## Stavian Industrial Metal – A member of Stavian Group

Stavian Industrial Metal Joint Stock Company (abbr. “Stavian Industrial Metal”) is a proud member of Stavian Group - a multi-national industrial company with many outstanding achievements.



## Stavian Group – A multi-national industrial company

Founded in

**2009**

Revenue

**2.1 billion USD (2023)**

Customer network

**> 20,000 local & international customers partners**

Market presence

**> 100 countries & territories**

Global facilities

**30+ offices  
40+ warehouses**

**10+ manufacturing facilities**

## Products & Services



**Chemicals & petrochemicals**



**Pulp & paper**



**Gas industry**



**Recycling & circular economy**



**Industrial park development**



**Logistics**



**Industrial metal**



**Packaging manufacturing**



**Energy solutions**



**Mineral industry**



**High-tech materials**



**Capital venture**



## Awards & recognition of Stavian Group and its subsidiaries

**STAVIAN CHEMICAL**  
ĐẠT GIẢI THƯỞNG DOANH NGHIỆP XUẤT SẮC CHÂU Á  
(CORPORATE EXCELLENCE AWARD)



01

Stavian Chemical received the **“Corporate Excellence Award 2022”** at the Asia Pacific Enterprise Awards (APEA)

02



03



02

Stavian Chemical ranked **#17 of ICIS’s Top 100 Chemical Distributors 2024**

03

Chairman & CEO Mr. Tony Dinh was honored the **Master Entrepreneur Award 2022 at Asia Pacific Enterprise Awards** by Enterprise Asia



04

Chairman & CEO Mr. Tony Dinh was named in the **Top 10 Vietnam Outstanding Young Entrepreneurs of 2022** at the Red Star Awards by the Vietnam Young Entrepreneurs Association

06



06

Stavian Group was awarded **“Asia’s Best Place to Work in 2022”**



07

Stavian Chemical ranked 21st in VNR500 among the **Top 500 Largest Private Enterprises** in Vietnam



05

Stavian Group is honored to become **Top 3 Employer of Choice** in 2022

08



08

Stavian Group topped the list of Vietnam **Excellent Brand Awards 2022** in Processing – Manufacturing Category

## About Stavian Industrial Metal

### Vision

To become one of Southeast Asia's TOP 10 largest industrial metal companies, contributing to promoting prosperous and sustainable development for the global industry.

### Mission

Creating the utmost values for customers, shareholders, personnel, the community and natural environment through sustainable business.

### Products & Services

Trading and distribution of industrial metal materials including 4 key product groups:

- **Steel**
- **Aluminum**
- **Copper**
- **Zinc**

In addition, Stavian Industrial Metal has been actively advancing our global trading and processing operations, gradually expanding into investment partnerships, joint ventures and production scale-ups while guaranteeing output distribution to fulfill market demands.

### Business philosophy

- Customer centricity is not only our business strategy but also part of our culture, together with integrity, intelligence and outstanding service quality.
- We do not aim for growth, we aim for sustainable growth. By creating a comprehensive ecosystem, we create utmost values to our stakeholders, our employees, every community where we operate across the world and last but not the least - the global natural environment.
- At Stavian Industrial Metal, we strive towards the goal of "Shaping Life".

### Core values

Ownership      Devotion      Ingenuity      Integrity      Internationality





## BOARD OF DIRECTORS



### Mr. Nguyen Minh Tu

Chairman

- One of the founder, Mr. Nguyen Minh Tu currently serves as the Vice Chairman of the Board of Directors of Stavian Group. Prior to this role, he was the CEO of A Chau Plastic Company (2002 - 2009) and key personnel at VINAMOTOR (2002 - 2008).
- With over 20 years of experience in business, management, and operations in industries such as Plastics, Sulfur, Logistics, and more, Mr. Tu has worked with large-scale enterprises. Companies under his leadership, including Stavian Group and Stavian Chemical, have consistently achieved impressive business results, receiving recognition and high rankings from reputable international organizations. His exceptional leadership skills have been repeatedly acknowledged through important awards from the Government, Ministries, and National Agencies.
- Mr. Tu has a broad and strong professional network in various fields including Trade, Finance, Banking, Construction Materials, Real Estate, M&A, and more.
- He holds an MBA degree from the International Business University of Scandinavia.

### Mr. Nguyen Ngoc Thang

Permanent Deputy General Director

- Mr. Nguyen Ngoc Thang is a senior executive with nearly 30 years of experience across various fields, including management strategy, corporate restructuring, investment, and international trade in industrial materials, minerals, agricultural products, real estate, chemicals, technology and machinery.
- The organization under Mr. Thang's leadership and management have all achieved significant accomplishments in business performance, market development and team growth. He has also been honored with numerous prestigious awards recognizing his outstanding contributions at Vietnam's leading economic corporations where he has worked.
- Mr. Thang holds a Master's degree in International Business Administration from Foreign Trade University in Hanoi.







### Mr. Mai Mau Thanh

Deputy General Director

- Mr. Mai Mau Thanh has over 15 years of experience in Design Consulting, Construction and Project Management, particularly in Industrial and Residential Real Estate Projects.
- He is an expert consultant and advisor in market trend analysis and product structuring for various Real estate - Construction projects, gaining him extensive experience in the domestic and international trade of industrial metal materials.
- Mr. Thanh graduated from Hanoi University of Civil Engineering.



### Mrs. Nguyen Thi Le Hoa

Finance Director

- Ms. Nguyen Thi Le Hoa has nearly 15 years of experience in the field of finance and accounting, holding positions such as Finance Director and Chief Accountant for numerous large-scale enterprises across various sectors including healthcare, construction, commerce, manufacturing, import-export, logistics, and more.
- She has held several key management positions within the Stavian Group for many years and has been recognized with numerous prestigious awards for her outstanding contributions to the Group.
- She is an expert in corporate finance analysis, overall financial planning, financial risk management and control. She holds a Professional Financial Director certificate.



### Mrs. Doan Thi Trang

Director of Human Resources

- Mrs. Doan Thi Trang has over 12 years of experience in the Human Resources and Administration field and is a senior-level administrator in Human Resources and Administration at enterprises in the real estate and construction materials sectors.
- She is an expert in building and implementing short-term and long-term human resource strategies, creating a corporate culture, fostering a humane work environment, attracting, recruiting, training, and developing teams.
- The positions held by Ms. Trang as Director of Human Resources at various organizations have all contributed to their establishment of unique and distinctive corporate cultures.
- She graduated from the National Economics University.

## Working environment

Inheriting Stavian Group's strategy "Stavian - Happy Human Resources", we have created a working environment where the concept of Human Resources (HR) is redefined as "Happy Relationships."

"At Stavian Industrial Metal, we offer you more than just a job; we offer you a career."



*"At Stavian Industrial Metal, we offer you more than just a job; we offer you a career"*



A man in a dark suit and glasses is looking down at a document he is holding. The background is a dark teal color with a grid pattern. There are some faint numbers and text visible in the background, such as '3.5', '50.1', '79.0', and '99'. On the left side, there is a white geometric shape consisting of several overlapping lines forming a diamond-like pattern.

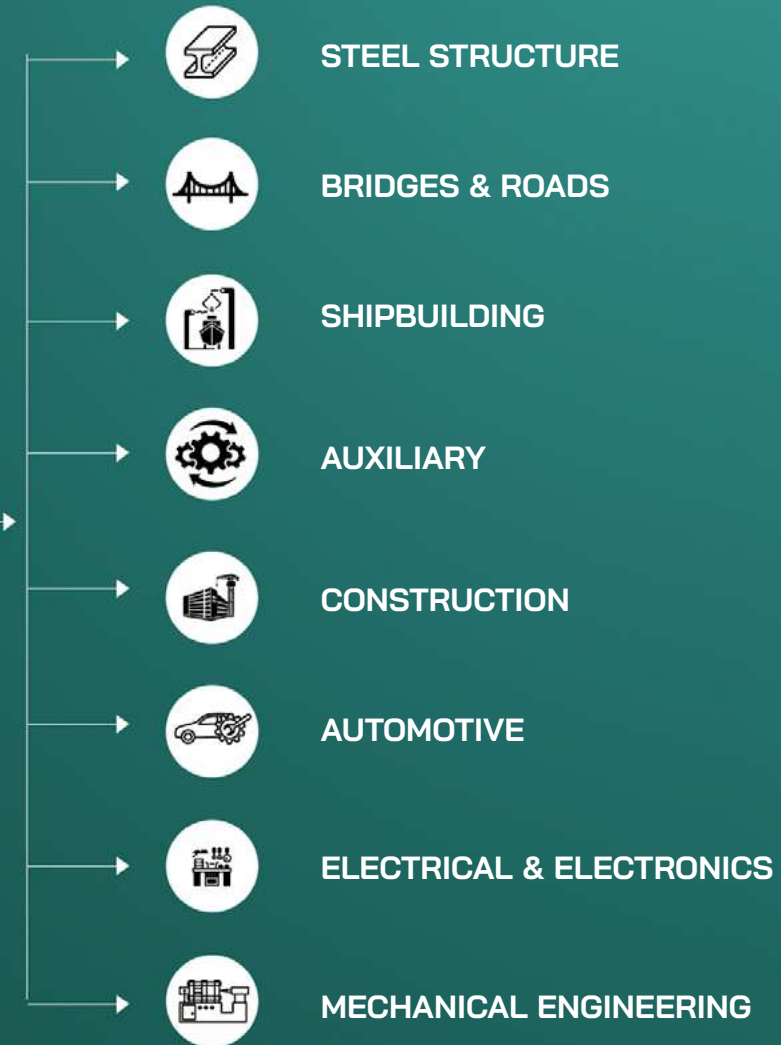
**OUR UNIQUE VALUE  
PROPOSITION**



### SUPPLY CHAIN DIAGRAM



We're bridging industrial metal material suppliers worldwide with thousands of businesses across various industries in Vietnam and abroad:



## 4 COMPREHENSIVE BUSINESS MODELS

We erect 4 comprehensive business models to enhance the company's competitiveness and operational position, minimize risks and optimize profits, thereby strengthening the capability to meet supply and trade needs for customers. These models include:

- (i) *Buy locally - Sell locally*
- (ii) *Buy locally - Sell internationally*
- (iii) *Buy internationally - Sell locally*
- (iv) *Buy internationally - Sell internationally*





# 15

## OUTSTANDING BUSINESS SOLUTIONS

With a philosophy centered around customers' needs, we deeply understand the challenges our customers face in their operations and activities both domestically and internationally. This is why we continuously develop business solutions aimed at maximizing support for all customer requirements.

- 1 |  Spot shipment at good price
- 2 |  Import cargo – signing contracts with oversea branches of SIM
- 3 |  Formula price – Term contract
- 4 |  Offtake principle contract
- 5 |  Domestic cargo 6-month deferred payment after delivery
- 6 |  On-spot import/export
- 7 |  Co-investment contract
- 8 |  Supply raw materials  
Guarantee sales of finished products
- 9 |  Purchase material with installment payment
- 10 |  Purchase with open credit
- 11 |  Purchase with credit card
- 12 |  Purchase with credit over-draft
- 13 |  Purchase with deferred payment in VND, get preferential interest rate in USD
- 14 |  Entrusted export/import
- 15 |  All-in Logistics services



## Global distribution network

- We have built a swift and effective domestic distribution network through a system of warehouses and offices in Hanoi, Hai Phong and Ho Chi Minh City.
- Additionally, inheriting reliable cooperative relationships with partners in over 100 countries and territories where Stavian Group operates, we are confident in our ability to best meet the needs of both domestic and international customers.
- With the advantage of our network and the international trade experiences of our key personnel, Stavian Industrial Metal is increasingly asserting its position as a large-scale industrial metal trading company. We not only excel in serving the Stavian Group's ecosystem but also possess full capacity to supply materials for large enterprises in the industrial sector, both domestically and internationally.





# PRODUCT PORTFOLIO

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Stavian Industrial Metal offers a diverse portfolio of high-quality industrial metal products. We are committed to providing customers with genuine products that adhere to manufacturer

specifications, meet both Vietnam's and international quality measurement standards, along with dedicated and exceptional customer service.

## The 4 Main Product Categories Distributed by Stavian Industrial Metal Include

---

### 1. STEEL

- Iron ore
- Steel billet
- Hot-rolled steel
- Cold-rolled steel
- Coated steel
- Construction steel
- Shipbuilding steel

### 2. ALUMINUM

- Alumina
- Aluminum ingot
- Aluminum billet
- Finished and semi-finished aluminum products

### 3. COPPER

- Copper cathode
- Copper wire

### 4. ZINC

- Zinc ingot
  - Zinc alloy
- 







01. STEEL



### 1.1 Iron ore

Iron ore distributed by Stavian Industrial Metal is carefully tested and certified by SGS. We also provide transparent origins for our products.

In addition to quality commitment, our company is also committed to abundant reserves, output and infrastructure to ensure uninterrupted trading activities.

CATEGORIES	DETAILS
<b>Origins</b>	Global producers
<b>Size</b>	Fine size: 0.15 – 6.3mm Lump size: 6.3 – 40.0mm
<b>Chemical Composition</b>	<ul style="list-style-type: none"> <li>• Fe: 60.0 – 68.0%</li> <li>• SiO<sub>2</sub> ≤ 4.5%</li> <li>• Al<sub>2</sub>O<sub>3</sub> ≤ 2.5%</li> <li>• P ≤ 0.15%</li> <li>• S ≤ 0.07%</li> <li>• Moisture &lt; 4.0%</li> <li>• Microelement: specified upon request</li> </ul>





## 1.2. Steel billet

Steel billets distributed by Stavian Industrial Metal are manufactured in large-scale factories, invested in building a closed and synchronous production complex to create a continuous chain in the production of billets and finished steel.

We supply a variety of steel billets, produced by IF, EAF, and BF technology, meeting customers' requirements. Especially, customized products in large quantities are available upon customers' request.

### CATEGORIES

### DETAILS

#### Size

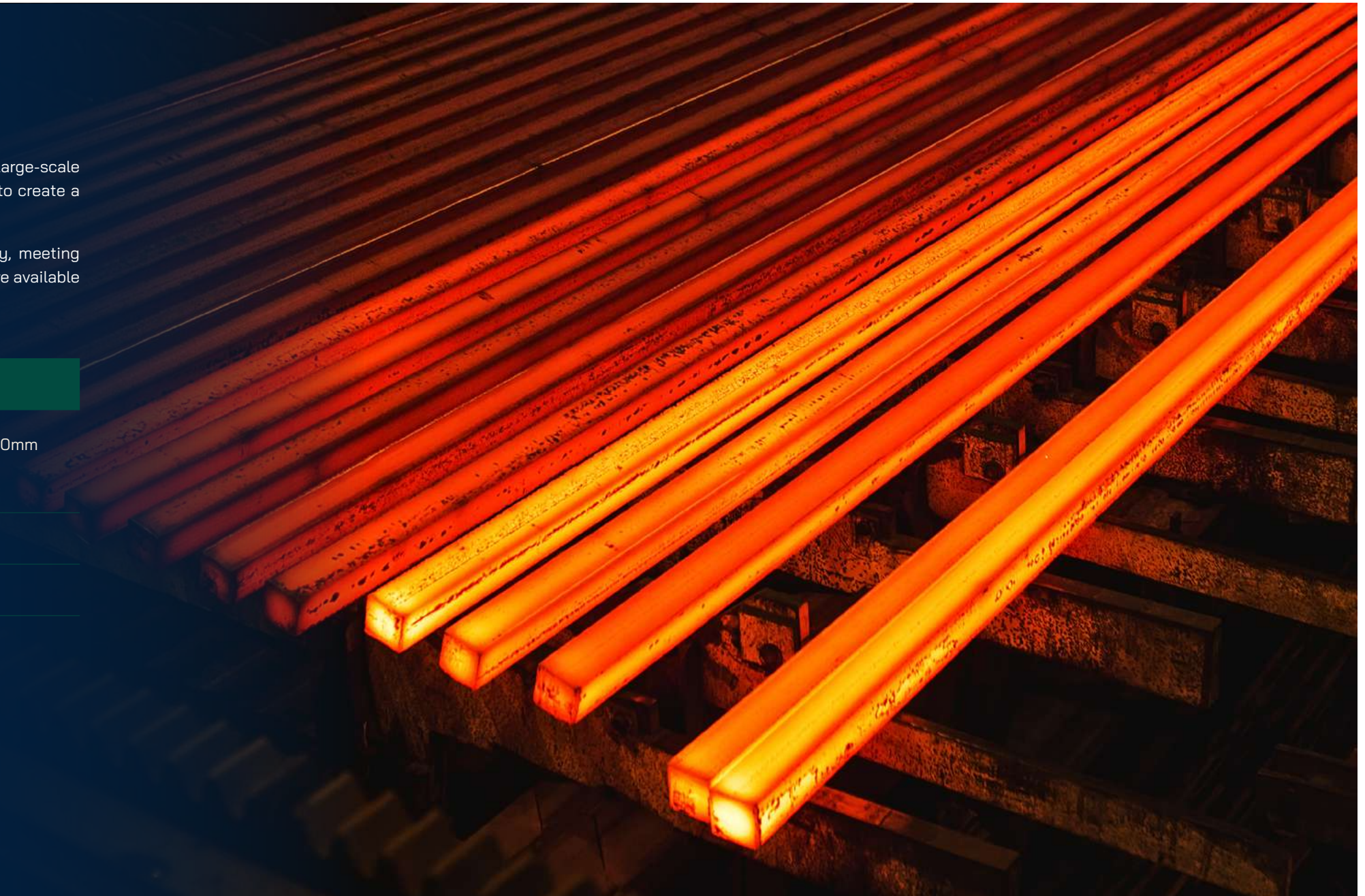
- Nominal size: 120×120mm, 130×130mm, 150×150mm
- Length: 6/12m

#### Grade

- CT5, 3SP, 4SP, 5SP, SD295(A)...

#### Standard

- JIS, ASTM, BS, TCVN...





### 1.3. Hot rolled steel

Stavian Industrial Metal provides a full range of hot rolled steel products in coils, plates and a full range of common steel grades.

The products provided by Stavian Industrial Metal are manufactured by prestigious global steelmakers such as Hoa Phat, Formosa, TATA Steel, Nippon Steel, Hyundai Steel, Baotou Steel, Shangchen Steel...

CATEGORIES	DETAILS
Coil	2 - 20mm in thickness
Plate	3 - 40mm in thickness and cut-to-order
Grade	Q235, Q195, SAE1006, SAE 1008, SS400, Q355, A36, A572...
Standard	JIS, ASTM, SAE, TIS, EN, MS, GB...





### 1.4. Cold rolled steel

Stavian Industrial Metal provides a full range of cold rolled steel products in coils, plates, SPHC, SPCC...

Besides, we also supply sheet & coil products in primary and secondary grades from big producers around the world such as Hyundai Steel, Nippon Steel...

#### CATEGORIES

#### DETAILS

##### Coil

0,2 - 6mm in thickness

##### Plate

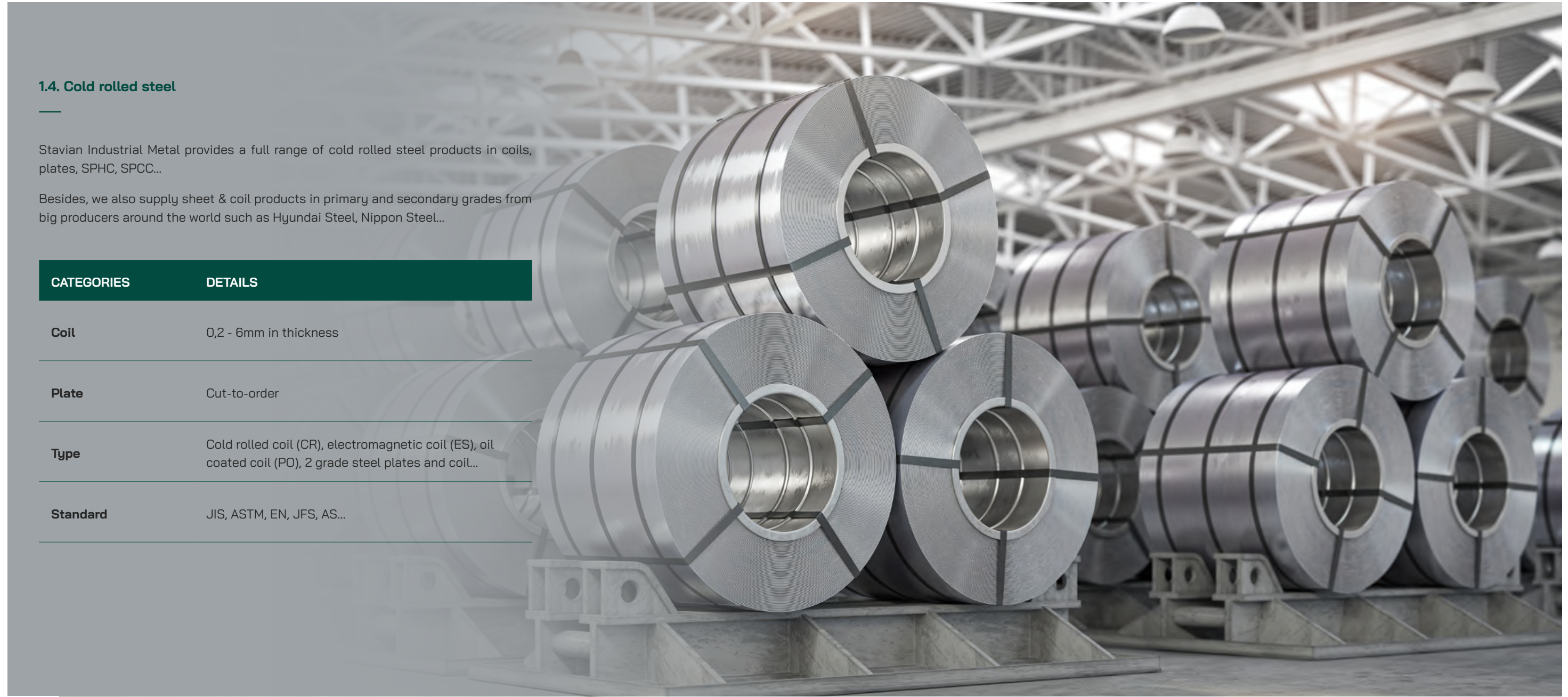
Cut-to-order

##### Type

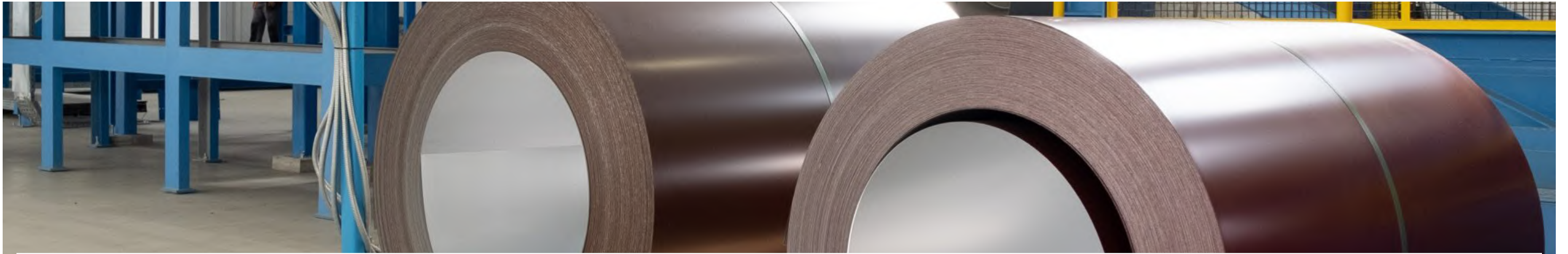
Cold rolled coil (CR), electromagnetic coil (ES), oil coated coil (PO), 2 grade steel plates and coil...

##### Standard

JIS, ASTM, EN, JFS, AS...







### 1.5. Coated steel

Coated steel refers to steel that has been treated with a protective layer to enhance its durability, corrosion resistance, and aesthetic appeal. This coating can be made from various materials, including zinc, aluminum-zinc, paint, or polymer, and is applied through processes such as galvanization, painting, or powder coating.

Stavian Industrial Metal offers high-quality coated steel products, including galvanized steel (GI), galvalume steel (GL), and pre-painted steel (PPGI/PPGL), available in diverse specifications. These products meet international quality standards such as JIS (Japan), AS (Australia), ASTM (USA), EN (Europe), ISO 9001, and ISO 14001.

**Coated steel products distributed by Stavian Industrial Metal are preferred thanks to various advantages:**

- **Corrosion resistance:** The protective coating shields the steel from environmental factors that cause rust and degradation, significantly extending its lifespan

- **Visual appeal:** Coated steel can be finished in various colors and textures, making it ideal for architectural applications and consumer products.
- **Enhanced performance:** Coated steel often demonstrates improved mechanical properties, including increased hardness and abrasion resistance.
- **Versatility:** It is widely used in applications ranging from construction materials and automotive parts to appliances and furniture.
- **Sustainability:** Many coatings can be recycled or are made from eco-friendly materials, contributing to sustainable manufacturing practices.

Overall, coated steel combines the strength of steel with added protective and aesthetic surface options, making it a popular choice across numerous industries.

CATEGORIES	DETAILS
<b>Product</b>	Coated steel coils, sheet, slitting coils
<b>Coating</b>	Zinc, Alu-Zinc, Paint, etc.
<b>Coating thickness</b>	<ul style="list-style-type: none"> <li>• GI: Z40-Z350 g/m<sup>2</sup></li> <li>• GL: AZ30-AZ200 g/m<sup>2</sup></li> <li>• PPGI/PPGL: Paint layer thickness of 5-30 microns with a variety of surface finishes (PE, ME, EP, PVDF, textured coatings, etc.)</li> </ul>
<b>Steel thickness</b>	<ul style="list-style-type: none"> <li>• GI: 0.30-3.0mm</li> <li>• GL: 0.18-2.0mm</li> <li>• PPGI/PPGL: 0.28-1.20mm</li> </ul>
<b>Width</b>	600 – 1500mm
<b>Standards</b>	JIS, EN, ASTM...
<b>Applications</b>	Roofing sheets, panels, structural components, etc.



## 1.6. Construction steel

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Stavian Industrial Metal specializes in distributing a wide range of steel products for large-scale projects and construction, including infrastructure, civil and industrial projects.

Our construction steel portfolio includes rebar steel, wire rods, structural steel, section steel, pre-painted steel, and various specialized steel types produced by reputable large-scale manufacturers, meeting the quality standards of Vietnam and numerous international markets.





### 1.6.1. REBAR STEEL

#### Size

- D6 - D32

#### Quality Standard

- JIS, TCVN, BS, ASTM

#### Grade

- SD295
- CB240T
- Grand 40
- CB300V,  
CB400V,  
CB500V

#### Applications

- Civil construction
- Transportation & port infrastructure
- Industrial parks, factories



### 1.6.2. WIRE ROD

#### Size

- D6 – D8

#### Quality Standard

- TCVN, ASTM, JIS, BS

#### Grade

- SAE 1006, SAE 1008
- SAE 1012, SAE 1015, SAE 1018
- SAE 1022

#### Applications

- Civil construction
- Transportation & port infrastructure
- Industrial material production





### 1.6.3. STRUCTURAL STEEL PLATE

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#### Size

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- Cast plates
- Cut plates

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#### Quality Standard

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- ASTM, JIS, EN, GB/T, ISO

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#### Grade

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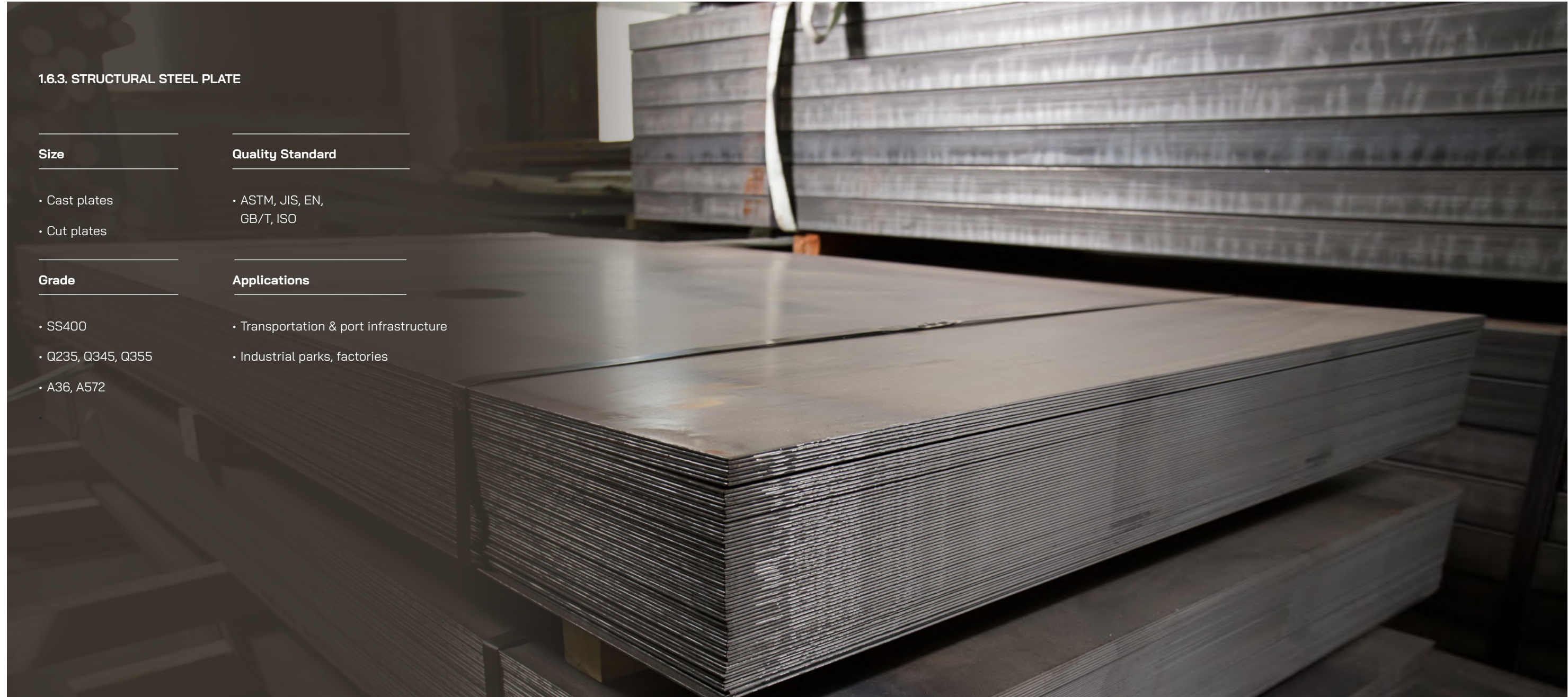
- SS400
- Q235, Q345, Q355
- A36, A572

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#### Applications

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- Transportation & port infrastructure
- Industrial parks, factories





#### 1.6.4. SECTION STEEL

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##### Size

- L40 – L150
- C8 – C16
- I10 – I15
- Other sections, tubes, boxes, galvanized or black purlins

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##### Grade

- SS400, SS540
- CT34, CT38, CT42

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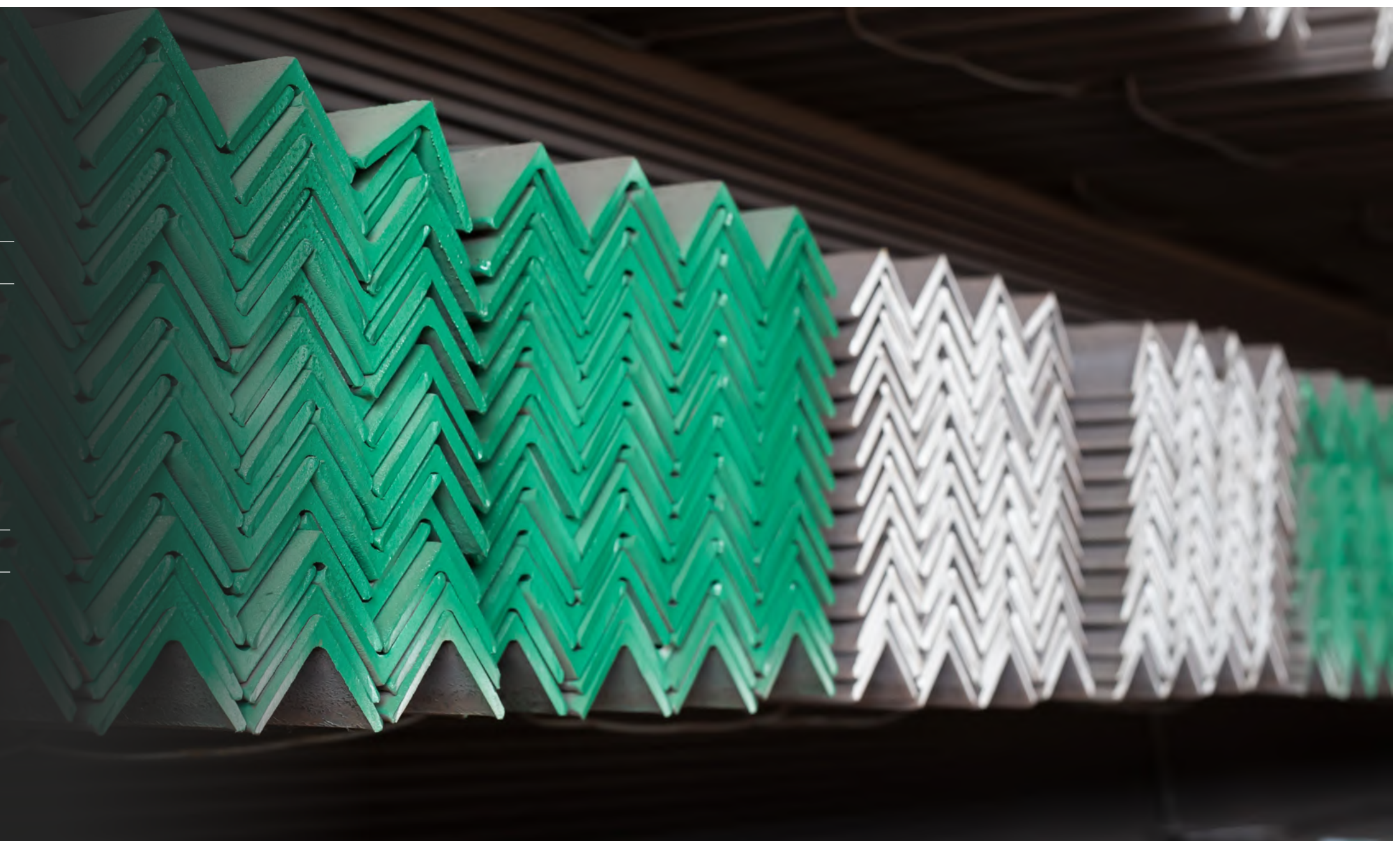
##### Quality Standard

- TCVN, JIS

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##### Applications

- Industrial parks, steel structure factories





1.6.5. PRE-PAINTED COATED STEEL

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**Size**

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- Width: 1200mm
- Various coating weight and colors

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**Quality Standard**

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- BS, EN, JIS

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**Grade**

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- G350 – G550

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**Applications**

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- Civil and industrial constructions



### 1.6.7. SPECIALIZED STEEL

Elastic steel, S45C machining steel,  
Russian-standard steel arch for mining...

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#### Applications

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- Machinery and industrial equipment manufacturing
- Mining industry applications





## 1.7. Shipbuilding steel

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Stavian Industrial Metal is a large-scale distributor of raw materials for the shipbuilding industry, both domestically and internationally. Our product offerings include Steel plates, Section steel, and Bulb flat, all certified by national and international classification organizations.

Shipbuilding steel is known for its superior thickness and hardness, providing exceptional durability and corrosion resistance. These properties enable ships to withstand the pressures of marine environments effectively. Additionally, the excellent weldability of shipbuilding steel makes fabrication and assembly more efficient and reliable.

Today, with technological advancements, shipbuilding steel has been continuously improved in quality and application. This material is used not only in the construction of commercial vessels but also in military and cruise ships, significantly contributing to overall socioeconomic development.







## 02. ALUMINUM



## 2.1. Alumina

Alumina, also known as aluminum oxide ( $Al_2O_3$ ), is extracted from bauxite ore found in tropical and subtropical regions. This material is crucial in aluminum production – a metal anticipated to experience significant growth as we transition toward a low-carbon economy.

Alumina distributed by Stavian Industrial Metal is extracted and refined using the Bayer process, ensuring compliance with international standards.

CATEGORIES	DETAILS
Origin	Global
Particle size	Particles <45 microns: maximum 12%; particles >150 microns: maximum 10%
Composition	<ul style="list-style-type: none"><li>• <math>Al_2O_3</math> content: 98.5% - 98.78%</li><li>• Impurities: Clarified upon request</li></ul>





## 2.2. Aluminum ingot

Stavian Industrial Metal provides high-quality aluminum ingots which are raw materials for the production of aluminum alloys (aluminum billet) and final aluminum profiles.

All products offered by Stavian Industrial Metal are well-sourced and have clear origins, produced by world's leading suppliers such as Vedanta, Rio Tinto... and trusted by domestic and foreign markets.

CATEGORIES	DETAILS
<b>Grade</b>	<ul style="list-style-type: none"> <li>Al99.90 / Al99.85 / Al99.70 / Al99.60 / Al99.50 / Al99.00 / Al99.7E / Al99.6E</li> <li>Al 99%-99.9% min</li> <li>Other: Al96 or ADC-6, ADC-12 / A-413, A360...</li> </ul>
<b>Appearance &amp; Weight</b>	Silvery white color, approximately 20-25 kg per ingot, or as per specific standards of each manufacturer





### 2.3. Aluminum billet

Stavian Industrial Metal provides aluminum billets of various types, serving the aluminum extrusion industry.

Our products are manufactured in large and reputable factories, meeting technical standards and are eligible for export.

Depending on customer requirements, billet products are cut to length or molded to many diameter sizes.

CATEGORIES	DETAILS
<b>Grade</b>	6063, 6061, 6005...
<b>Diameter</b>	4 inches – 14 inches
<b>Applications</b>	Used to produce aluminum profiles and extrusions for curtain walls, exterior glass facades, sunshades, supporting industries, and interior/exterior decoration, etc.
<b>Standards</b>	BS, ASTM, JIS...



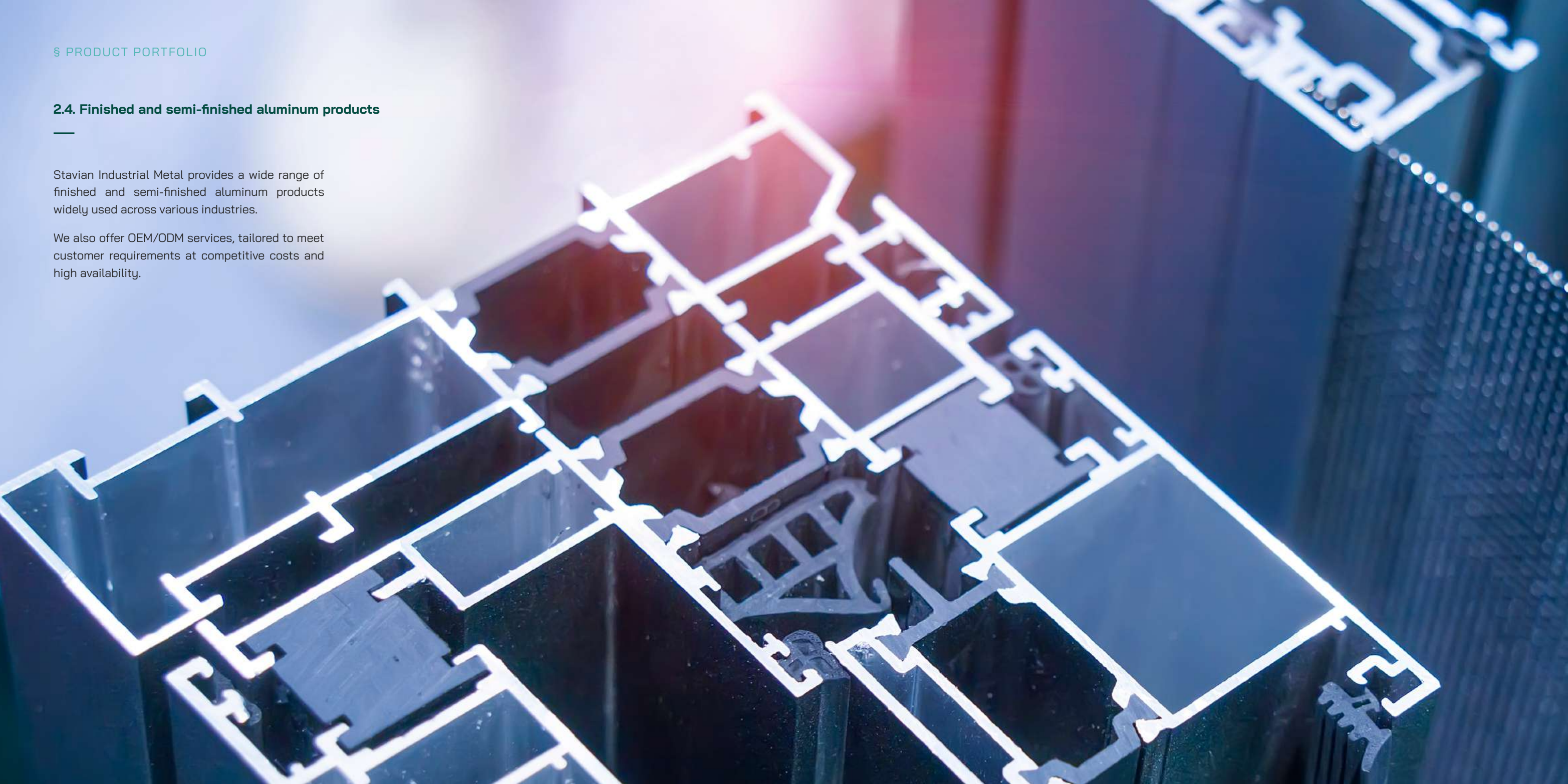


#### 2.4. Finished and semi-finished aluminum products

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Stavian Industrial Metal provides a wide range of finished and semi-finished aluminum products widely used across various industries.

We also offer OEM/ODM services, tailored to meet customer requirements at competitive costs and high availability.





### 2.4.1 ALUMINUM PROFILES

#### Grade

6061, 6063,  
6082, 6101...

#### Technical standards

ISO 6362-1:2012  
ASTM B221

#### Applications

Widely used in industries such as architecture & interiors, solar energy, and thermal solutions (heat dissipation), etc.

#### Quality standards

Ensures straightness, flatness, angular tolerance, and precise perpendicularity as per ISO 6362-1 and ASTM B221 standards.





### 2.4.2 ALUMINUM WIRE

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#### Grade

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EC – AL: 1350 & 1070

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#### Technical standards

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EN 1715, ASTM B230/B230M

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#### Applications

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Used in the production of electrical wires, cables, and other electronic components.

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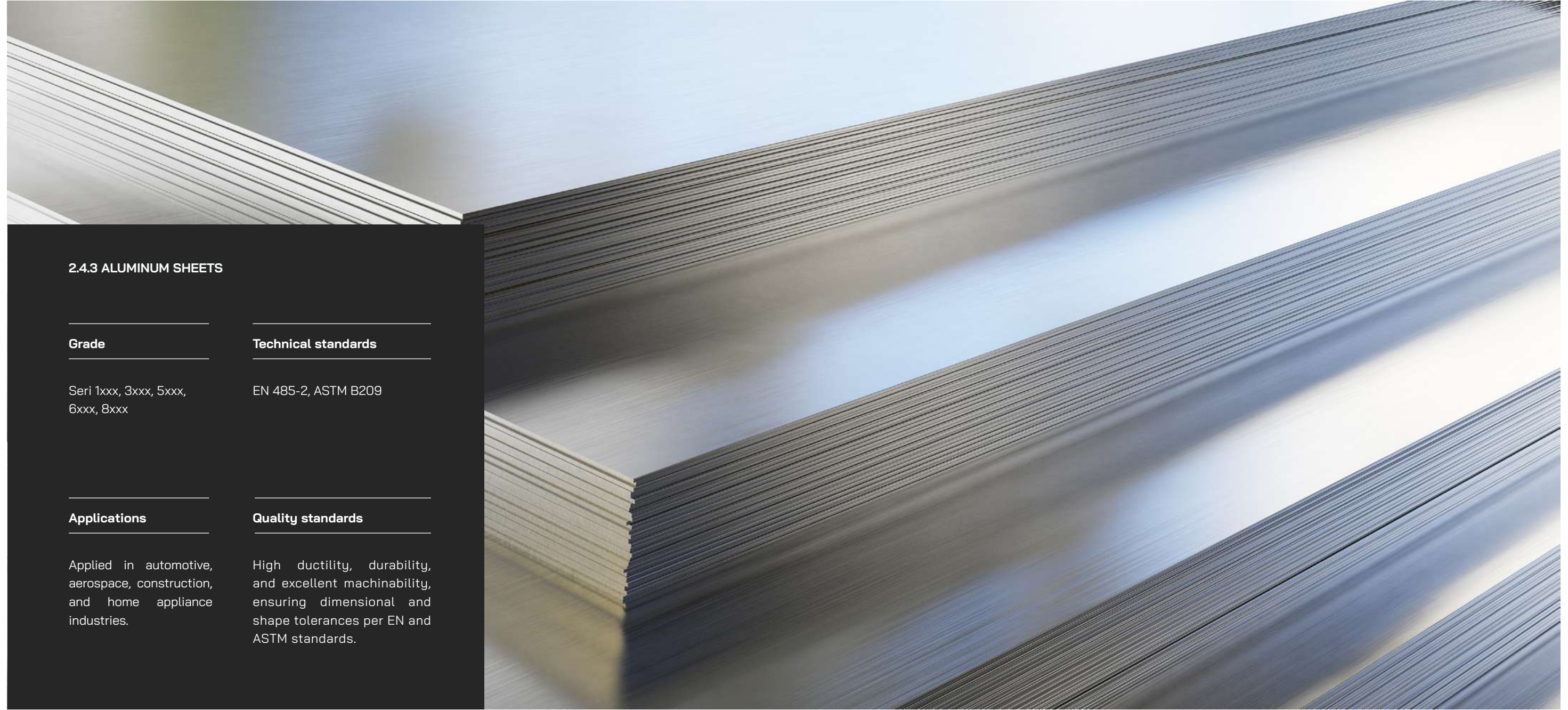
#### Quality standards

---

High conductivity, good tensile strength, and oxidation resistance in compliance with EN and ASTM standards.







### 2.4.3 ALUMINUM SHEETS

#### Grade

Seri 1xxx, 3xxx, 5xxx,  
6xxx, 8xxx

#### Technical standards

EN 485-2, ASTM B209

#### Applications

Applied in automotive,  
aerospace, construction,  
and home appliance  
industries.

#### Quality standards

High ductility, durability,  
and excellent machinability,  
ensuring dimensional and  
shape tolerances per EN and  
ASTM standards.



#### 2.4.4 ALUMINUM COILS

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##### Grade

---

Seri 1xxx, 3xxx,  
5xxx, 8xxx

---

##### Technical standards

---

EN 573-3, EN 485-4,  
ASTM B209

---

##### Applications

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Used in roofing, wall  
cladding, packaging  
manufacturing, &  
household products.

---

##### Quality standards

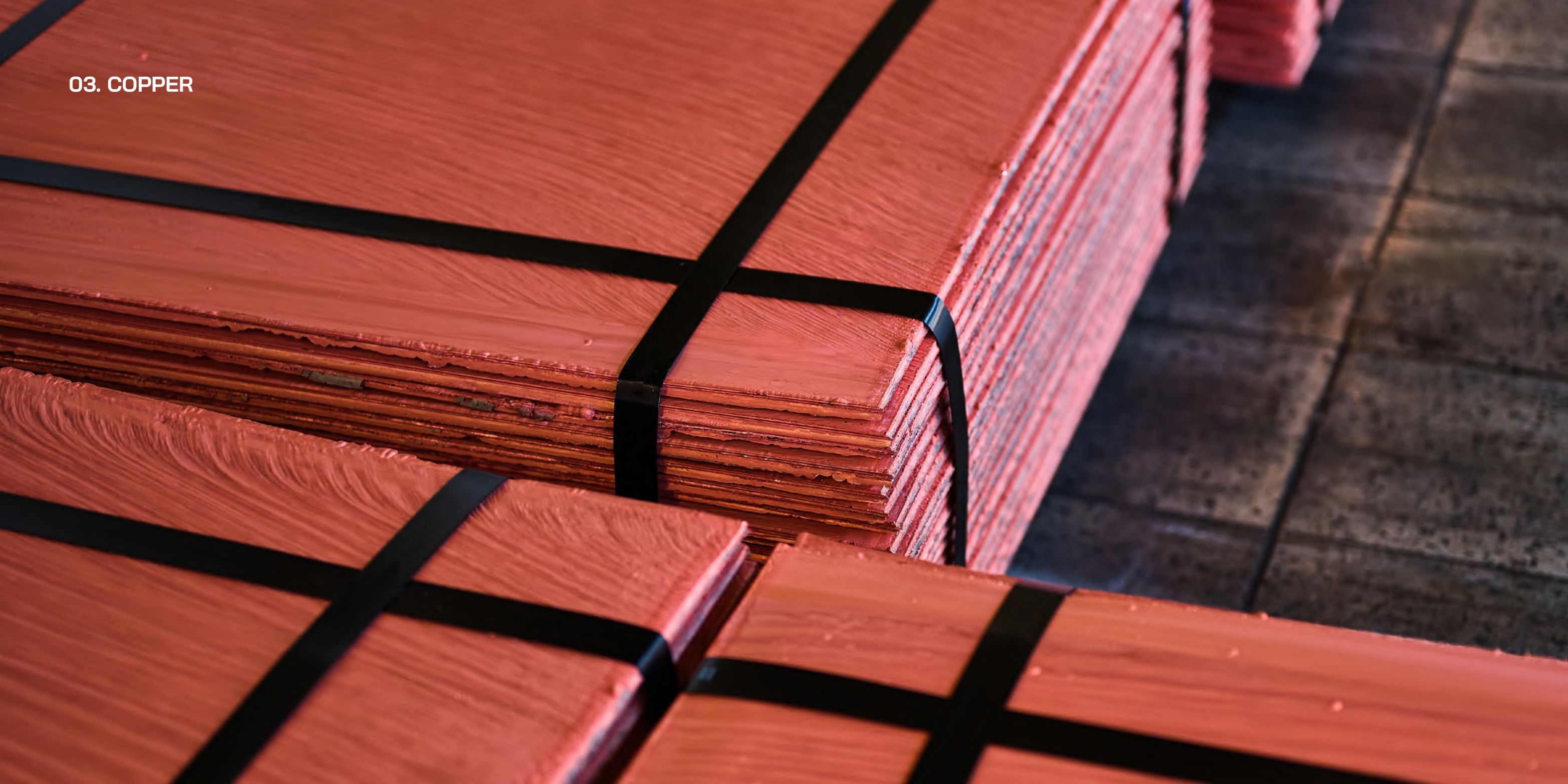
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High ductility, durability,  
and excellent machinability,  
ensuring dimensional and  
shape tolerances per EN and  
ASTM standards.





03. COPPER





### 3.1. Copper cathode

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Stavian Industrial Metal specializes in distributing high-purity copper cathodes, meeting strict domestic and international quality standards.

These products are widely used by customers in the production of copper wire, finished copper products, and more. They are essential across various industries, including electrical, industrial, mechanical, architecture, construction, and electronic components.

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#### Purity

---

≥ 99.99%

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#### Standards

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BS EN 1978:2022 - Cu-CATH-1

GB/T 467-2010 - Cu-CATH-1

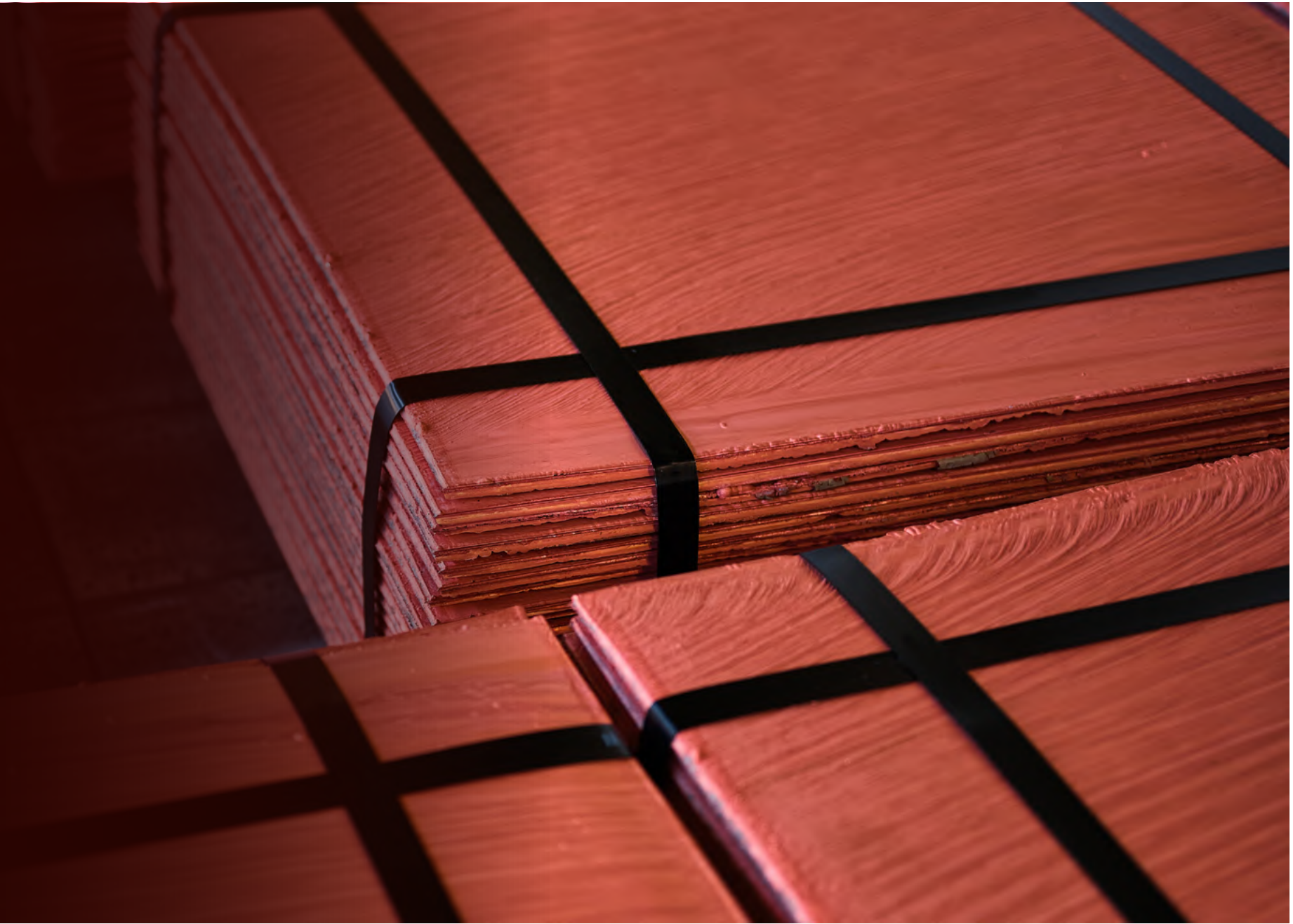
ASTM B115-10 (2021) -  
Cathode Grade A

---

#### Size

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Sheet thickness ranges  
from 6mm to 16mm...  
(as per manufacturer  
standards)





### 3.2. Copper wire

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Stavian Industrial Metal supplies a wide range of copper wire sizes, used as raw material for wire and cable companies, as well as other industries.

Our products ensure tensile strength and elongation in accordance with both domestic and international testing standards.

With an extensive distribution network and reliable sourcing from world-class manufacturers, the products we supply come with full certificates of origin and can be shipped worldwide at competitive prices.

---

#### Size

Φ 2.6 / 3.2 / 8 mm...

---

#### Standards

JIS, ASTM, BS, DIN

---

#### Packaging

Copper wire products, including drawn and stranded wire, can be manufactured and packaged according to customer requirements.







04. ZINC



## 4.1. Zinc ingot

Stavian Industrial Metal supplies high-purity Zinc Ingot, primarily used in the plating and galvanizing industries.

All zinc ingots distributed by Stavian Industrial Metal have clear origins, are stored and transported in accordance with manufacturer standards, and are trusted by both domestic and international markets.

### Purity

≥ 99.995% kēm

### Shape

Ingot, size according to manufacturer standards

### Surface

Wilver-white, shiny

### Standards

BS EN 1179:2003 - 99.995%  
ISO 752:2004 - ZN-1  
ASTM B6-12 - LME  
GB/T 470-2008 - Zn 99.995





## 4.2. Zinc alloy

Zinc alloys are widely used in various industries and daily life due to their excellent rust and corrosion resistance, durability, and high-temperature resistance. They are the top choice for mold manufacturing, producing mobile electronics, electronic tools, household items, and many other high-tech products. Stavian Industrial Metal offers a wide range of zinc alloys, including:

Zinc alloy type	Main alloying element	Features	Applications
Zinc-Alu (ZA)	Aluminum	High-strength, hardness, load-bearing capacity	Automotive parts, hardware and accessories
Zinc-Copper (ZC)	Copper	High-strength, good ductility, ideal for die-casting	Electrical components, automotive parts
Zinc-Nikel (ZN)	Nikel	Excellent corrosion resistance and high durability	Automotive components, electronic casings
Zinc-Tin (ZT)	Tin	Good castability	Suitable for decorative applications, architectural hardware, decorative items





## COMMITMENT TO SUSTAINABLE DEVELOPMENT

Stavian Industrial Metal is committed to a sustainable development strategy, pioneering the creation of a green industry, focusing on 03 main factors:

- **Products**
- **Technology**
- **Partner networks**



## 5.1. Products

Green metals are produced with environmental-friendly technologies, without the use of fossil fuels, producing low carbon emission through out the entire production process. (According to Bloomberg, World Economic Forum)

Stavian Industrial Metal puts green industrial materials as a core product in its long-term development strategy, contributing significantly to the global trend of green industrial material consumption.

We aim to achieve net-zero carbon emissions by developing and growing an ecosystem of sustainable value products, such as: Green steel (HRC, Rebar), HBI, Pellet; Green aluminum (Ingot, Billet, Alloy), Recycled aluminum.







### 5.1.1. Green steel

<b>Carbon emission levels</b>	< 0.6 tons CO <sub>2</sub> e/ton of steel
<b>Composition</b>	70% HBI, 30 % scrap
<b>Technology</b>	Energiron electric arc furnace
<b>Energy</b>	Natural gas, wind/solar energy, green hydrogen
<b>Certification</b>	EPD Environmental Product Declaration



### 5.1.2. Green aluminum

<b>Carbon emission levels</b>	< 4 tons CO <sub>2</sub> e/ton of aluminum
<b>Products</b>	Green alumina, Green ingot, Green billet, Green aluminum wire
<b>Technology</b>	Inert anode/Induction furnace/CCUS
<b>Energy</b>	Natural gas, wind/solar energy, green hydrogen
<b>Certification</b>	EPD Environmental Product Declaration



### 5.1.3. Hot briquetted iron – “HBI”

Hot briquetted iron (HBI) is an essential raw material in the production of green steel, significantly reducing carbon emissions right from the iron making.

Using advanced technology and renewable energy sources such as green hydrogen, the oxygen in iron ore is directly reduced to retain iron content, forming Direct reduced iron (DRI), also known as sponge iron.

HBI are DRI or spong iron moulded in a briquette form, easy to transport, and can be used in various steel furnaces such as Electric Arc Furnace (EAF), Blast Furnace (BF), and Basic Oxygen Furnace (BOF) with varying ratios.

HBI is produced with consistent chemical and physical properties, clearly defined and certified by manufacturers in compliance with ISO quality standards.

Chemical composition		Physical properties	
Total iron	90 - 94%	Bulk density (kg/m <sup>3</sup> )	2.500 – 3.300
Metallic iron	83 - 88%	Approx. stowage factor (m <sup>3</sup> /mt)	0,3 – 0,4
Carbon	0,8 - 2,0%	Size	
Phosphorus	0,02 - 0,11%	Length: 50 - 140 mm	
Sulfur	0,003 - 0,03%	Width: 40 -100 mm	
		Thickness: 20 - 50 mm	
Total gangue (mainly SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , CaO, MgO and MnO)	1,95 – 5,10%	Weight: 0.2 – 13,0 kg	

Source: Midrex.com





#### 5.1.4. Pellet

Pellets, also known as Iron ore pellets, are used in the production of Direct Reduced Iron (DRI), improving product value and reducing CO2 emissions.

They can also be used in sintering to enhance the sintering of Fe, SiO<sub>2</sub>, and Al<sub>2</sub>O<sub>3</sub>, or ore blending to improve lower-grade ore quality and value.

Pellets are applied in both BF (Blast Furnace) and DRI (Direct Reduced Iron) processes, offering excellent chemical, physical, and metallurgical properties.

Indicative Specs	AA Pellet (%)
Fe	66,5
SiO <sub>2</sub>	3,10
Al <sub>2</sub> O <sub>3</sub>	0,6
CaO	0,65
MgO	0,05
Phosphorus	0,035
Sulfur	0,003
B2 – Binary Basicity Index	0,21
Moisture	1,0
Size Distribution	
+16 mm	5,0
-16 + 8 mm	91,0
-6,3 mm	1,5
Physical Properties	
Crushing Strength (+6,3mm)	96
Abrasion Index -0,5mm	3
Cold Crushing Strength (kg/pellet)	300

Source: Angola America Reports





## 5.2. Technology

Stavian Industrial Metal has actively engaged with partners for investment collaborations in production, outsourcing, technology development and application to enhance the global supply capability and capacity of decarbonized materials, including Vietnam.

We prioritize the research and implementation of warehouse management solutions and supply chain optimization to reduce energy consumption, improve the efficiency of transportation, storage and distribution processes, and reduce operational carbon emissions.





### 5.3. Partner networks

With the belief that “Connection and collective effort are the keys to success in driving carbon emission reduction and sustainable development,” Stavian Industrial Metal prioritizes building partnerships with accreditable suppliers who share the commitment to sustainable development.

We not only welcome but actively promote opportunities for collaboration in trade, investment, production, technology transfer, and big data related to green metals. Additionally, Stavian Industrial Metal is engaged in organizing training activities, knowledge and experience sharing, skill and expertise enhancement to contribute to building a strong and sustainable green metal manufacturing industry.





A background image showing a business meeting. In the foreground, two hands are shaking in a firm grip. In the background, a person is holding a tablet computer. On the table, there are several documents with charts and graphs. The overall scene is professional and collaborative.

## STRATEGIC PARTNERS

We establish strategic and long-term relationships with financial partners, suppliers, and customers to jointly create sustainable values for the development of Vietnam's industry and economy, as well as for the region and the international community.



Suppliers



Customers



Financial partners





## CORPORATE SOCIAL RESPONSIBILITY

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We understand and continuously improve the quality of our CSR initiatives, with the commitment to pay it forward.





# Corporate Social Responsibilities



## Business

- Excellent business performance
- Satisfied customers
- Management and compliance

## Environment

- Environmental care
- Supporting customers in achieving environmental goals

## Society

- Diverse development, health and safety training
- Equal development opportunities







Building schools for children in highland areas



• Visiting, encouraging and donating meaningful gifts to the Nho Quan Rehabilitation Center for Veterans



Providing prosthetic limbs to elderly individuals in poor conditions in Ninh Binh







Sponsoring classroom renovation, donating books, school supplies and other meaningful gifts to disadvantaged children with disabilities at the Class of love at Huong Lan Pagoda, Chuong My, Hanoi







Sponsoring reforestation and environmental improvement projects in highland regions



STAVIAN CHEMICAL – Diamond sponsor of SEA Games 31



## Contact information

### BUSINESS NAME

STAVIAN INDUSTRIAL METAL.,JSC

### HEADQUARTERS

No.508 Truong Chinh Street, Nga Tu So Ward, Dong Da District, Hanoi City

### HAI PHONG BRANCH

6<sup>th</sup> Floor, Thanh Dat 1 Tower, No.3 Le Thanh Tong Street, May To Ward, Ngo Quyen District, Hai Phong City

### SOUTHERN BRANCH

12A<sup>th</sup> Floor, Vincom Center, No.72 Le Thanh Ton, District 1, Ho Chi Minh City

### CONTACT

Phone: +84 24 7100 1868

Email: [info@stavianmetal.com](mailto:info@stavianmetal.com)

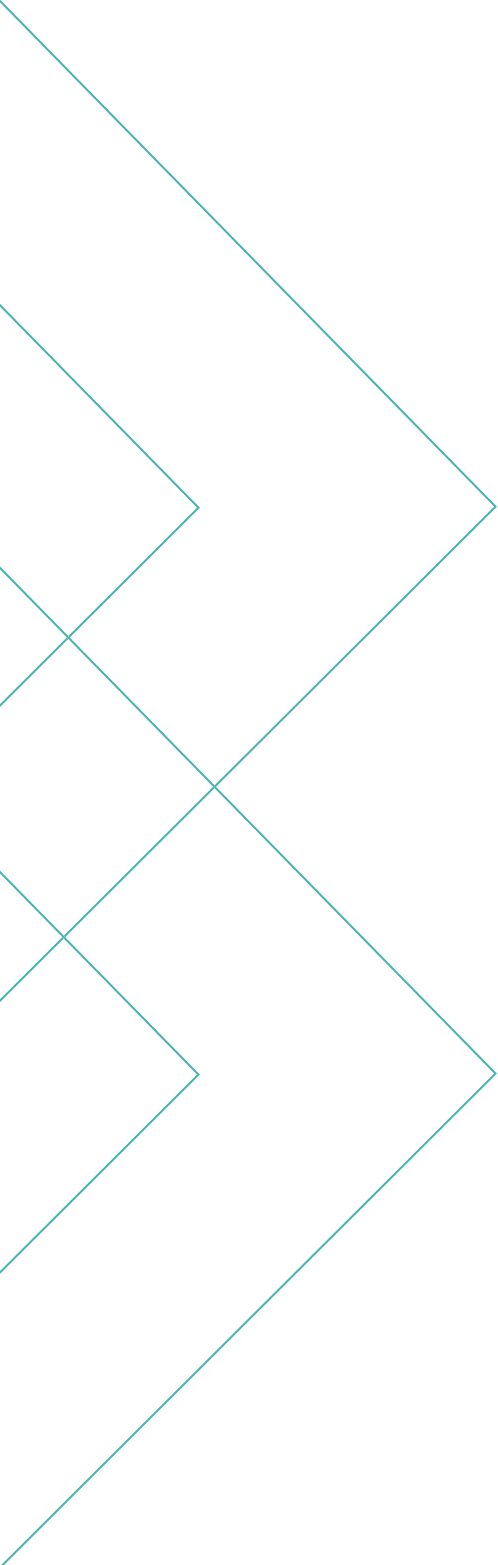
Website: [www.stavianmetal.com](http://www.stavianmetal.com)











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