STAVIAN®
INDUSTRIAL METAL

BROCHURE

SHIPBUILDING STEEL



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1. ABOUT STAVIAN INDUSTRIAL METAL

Stavian Industrial Metal – A member of Stavian Group

Stavian Industrial Metal Joint Stock Company (abbreviated as "Stavian Industrial Metal") is proud to be a member of Stavian Group – leading infrastructure enterprise with four pillars: Industry, Technology, Energy, and Trade.

Stavian Group – A multi-national industrial company

Founded in

2009

Revenue

~ USD 2.8 billion (2025)

Customer network

> 20,000 local & international customers & partners

Market presence

> 100 countries & territories

Global facilities

30+ international offices
40+ worldwide logistics hubs

10+ manufacturing factories
5 Industrial zones & Digital parks

1. About Stavian Industrial Metal

Vision

By 2030, Stavian Industrial Metal aims to become one of the world's Top 10 enterprises in industrial metal processing, manufacturing investment and trading, while maintaining its position as the No.1 green metal business and carbon credit service provider in Southeast Asia.

This strategic vision reflects the company's ambition to expand its global presence, strengthen its leadership in the green transition and reinforce its commitment to building a sustainable industrial metal value chain.

Mission

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

Business Scope

Stavian Industrial Metal distributes a diverse portfolio of industrial metal products with clear origins and stable supply availability, covering four main product groups:



1. Steel



2. Aluminum



3. Copper



4. Zinc



2. SUPPLY CAPABILITY

2. Supply Capability



Supply capability

Inheriting Stavian Group's global ecosystem along with an extensive domestic network of offices, warehouses, and operations, Stavian Industrial Metal possesses comprehensive supply capabilities for metal materials serving the marine and shipbuilding industries. We effectively meet diverse demands ranging from newbuilding, repair, and conversion to major overhaul of vessels in both domestic and international markets.

Leveraging a vast network of partners and customers across more than 100 countries and territories, Stavian Industrial Metal ensures an abundant, stable, and flexible supply. We are fully prepared to handle large-scale orders with urgent schedules and stringent technical specifications for shipbuilding projects, marine structures, and supporting industry supply chains. Our products are supplied in strict compliance with both domestic and international quality standards, ensuring consistency, safety, and operational efficiency for every project.

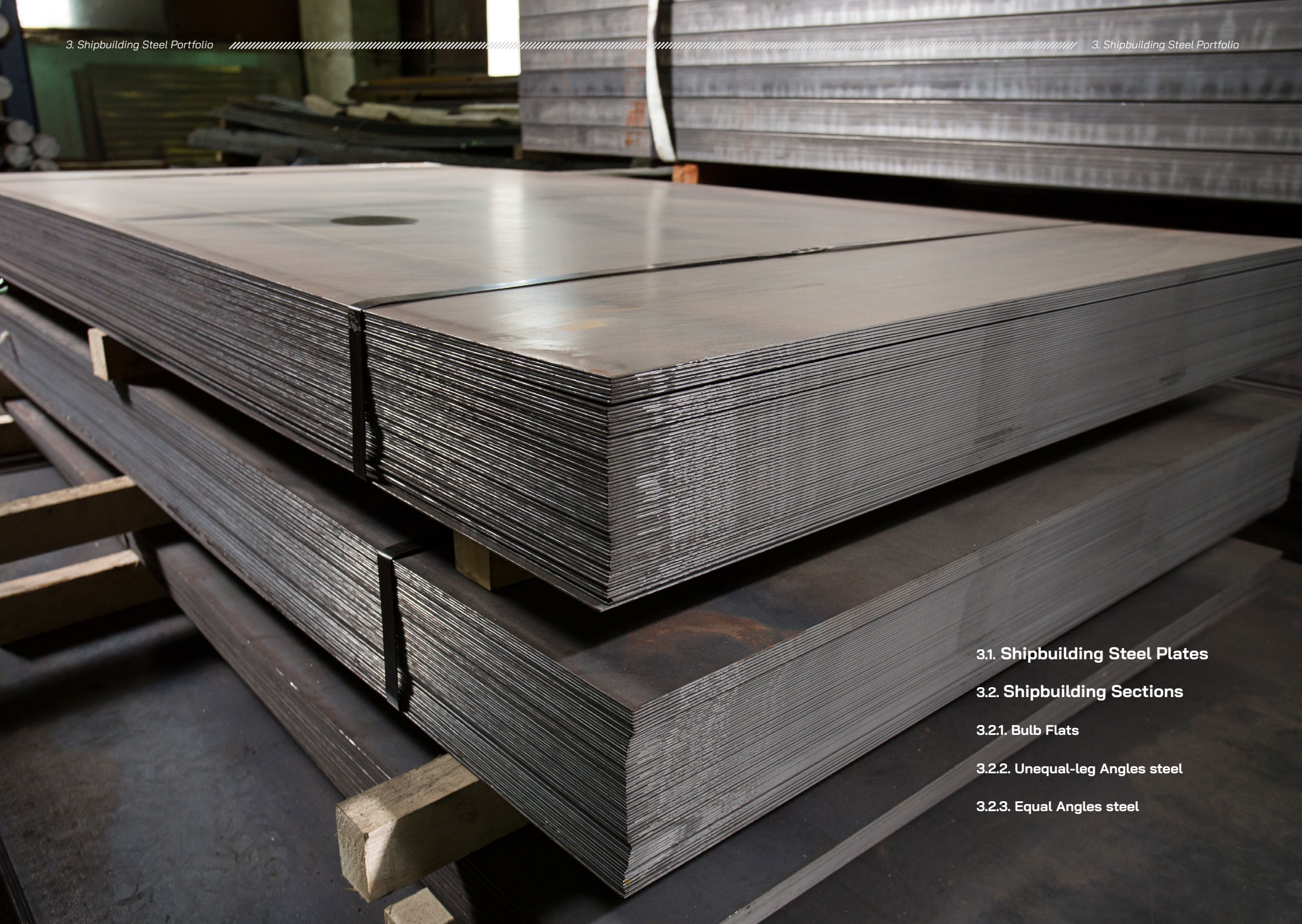
These capabilities are bolstered by a professional, efficient, and end-to-end logistics system, including transportation, warehousing, coordination, and multimodal forwarding. This infrastructure optimizes costs, shortens lead times, and guarantees progress for marine projects that demand high time-sensitivity and supply chain continuity. Stavian Industrial Metal's logistics network is currently reinforced by:

Global Agents **200+**	Domestic Branches **06**
Nationwide Warehouses **26+**	Trucks & Container Trailers **2,500+**
Trips per month **10,000+**	



3. SHIPBUILDING STEEL PRODUCT RANGE

3. Shipbuilding Steel Portfolio



3.1. Shipbuilding Steel Plates

3.2. Shipbuilding Sections

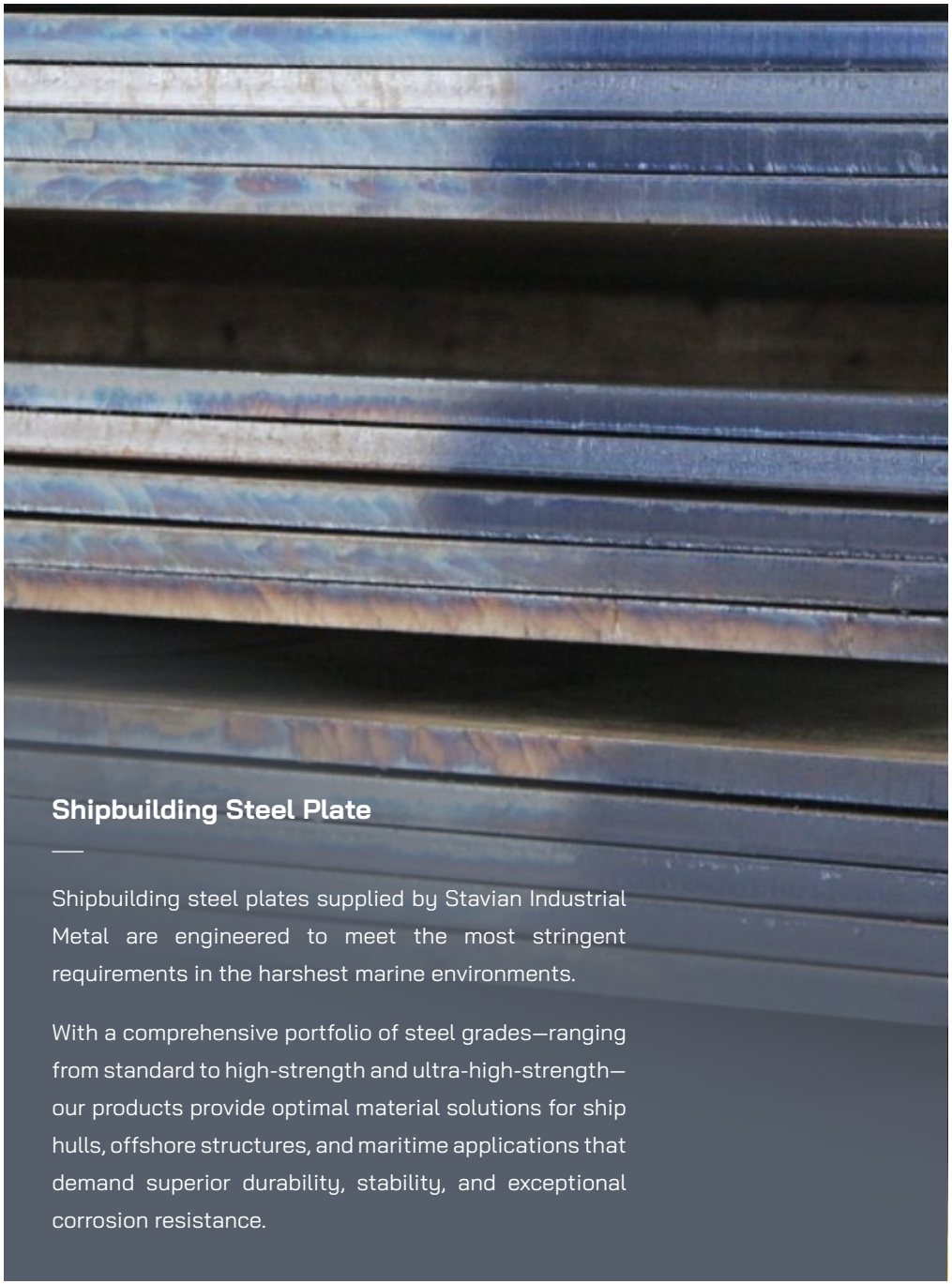
3.2.1. Bulb Flats

3.2.2. Unequal-leg Angles steel

3.2.3. Equal Angles steel



4. PRODUCT DETAILS



Shipbuilding Steel Plate

Shipbuilding steel plates supplied by Stavian Industrial Metal are engineered to meet the most stringent requirements in the harshest marine environments.

With a comprehensive portfolio of steel grades—ranging from standard to high-strength and ultra-high-strength—our products provide optimal material solutions for ship hulls, offshore structures, and maritime applications that demand superior durability, stability, and exceptional corrosion resistance.

4. Product Details

CATEGORY	DETAILS
Origins	Europe, Asia, America, Middle East, Africa
Applications	Hulls & Decks: Utilizing wide/heavy plates to optimize weight-to-strength ratios and structural integrity.
	Bulkheads & Cargo Holds: Enhanced corrosion resistance and impact toughness to withstand bulk cargo handling.
	Rigs & Offshore Structures: Substructures and jackets requiring AH/DH/EH high-strength steel to endure extreme wind and wave loads.
Technical Properties	TMCP (Thermo-Mechanical Control Process): Delivers high-strength steel with excellent weldability. This technology eliminates the need for pre-heating, significantly reducing fabrication time and costs.
	Low-Temperature Toughness: Grade E and F series offer superior impact resistance at cryogenic temperatures (from -40°C to -60°C), ideal for ice-going vessels or LNG carriers.
	Z-Direction Testing (Z25/Z35): Guarantees high lamellar tearing resistance, protecting critical weld joints against extreme mechanical stress in the through-thickness direction.
Standards	CCS, ABS, NK, BV, LR, RINA, DNV, KR, RS

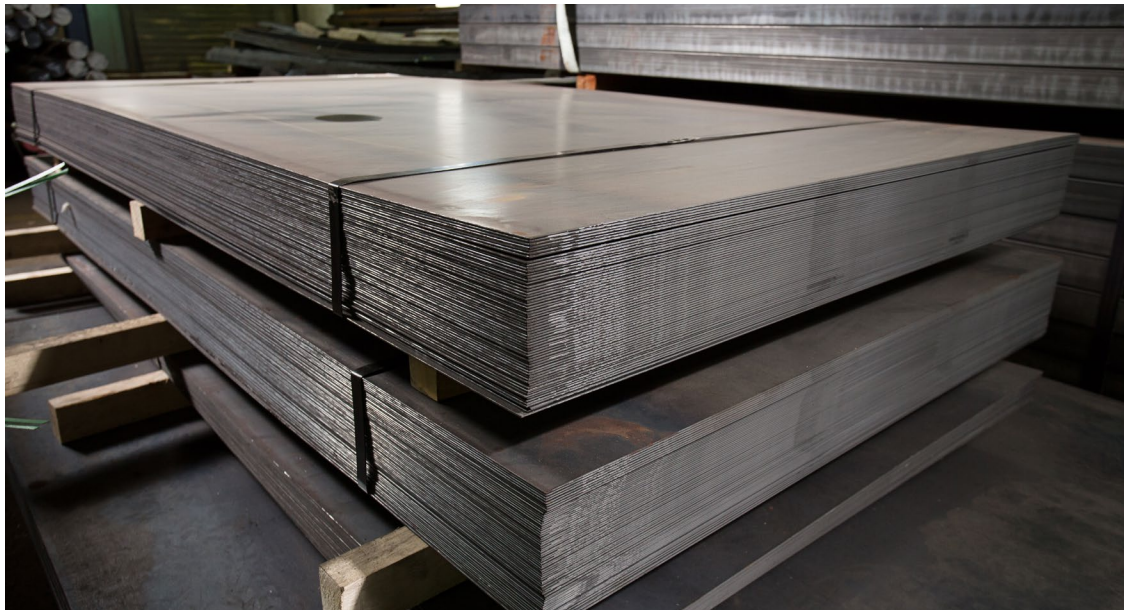
PRODUCT SPECIFICATIONS

General Specifications for Shipbuilding Steel Plates

Characteristics	Technical Specifications	Customer Benefits
Steel Grade	A, B, D, E & AH32 – FH40	Suitable for a wide range of vessels, from small crafts to ultra-large carriers.
Thickness	4.75mm – 100mm	Versatile application for both deck plating and hull bottoms of high-tonnage vessels.
Width	Up to 4800mm	Minimizes weld seams, significantly enhancing structural integrity and reducing labor costs.
Length	Up to 25000mm	Optimizes the fabrication process for large-scale block assembly.

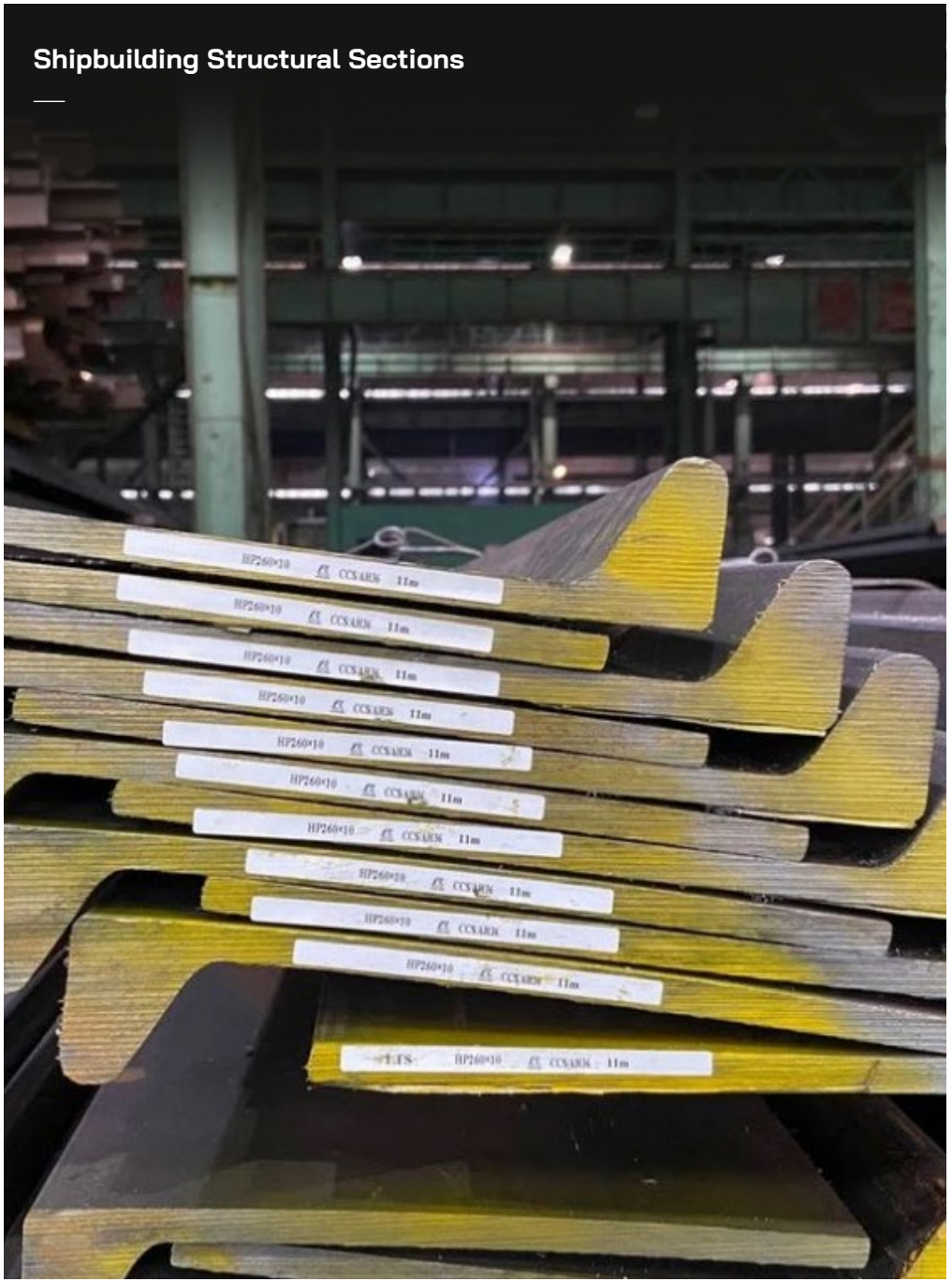
Specifications: Steel Plates Cut-to-Length from Coil

Grade	Size Range	Delivery Condition	Remarks
A, B, D, AH32, AH36, DH32, DH36	3.0mm – 25mm (T) x 900mm – 2050mm (W) x 2000mm – 16000mm (L)	AR, CR, Normalized	**Surface Treatment**: Shot Blasting & Shop Primer can be provided upon request.



Specifications: Heavy Plates (Quarto Plates)

Grade	Size Range	Delivery Condition
High Strength & Ultra High Strength: AH420, AH460, AH500, AH550, AH620, AH690, DH420, DH460, DH500, DH550, DH620, DH690, EH420, EH460, EH500, EH550, EH620, EH690, FH420, FH460, FH500, FH550	6mm – 350mm (T) x 900mm – 4800mm (W) x 3000mm – 25000mm (L)	**TMCP / TMCP + Tempered**



4. Product Details

Bulb Flats

CATEGORY	DETAILS
Origins	Vietnam, Europe, Asia, America, Middle East, Africa
Applications	Used as stiffeners for ship hulls, bulkheads, and deck plating.
Technical Properties	• The distinctive rounded profile increases the moment of inertia, providing superior bending resistance compared to conventional angle bars of the same weight. • The smooth surface with no blind spots or sharp corners ensures easy application of anti-corrosion coatings and simplifies maintenance/cleaning.
Classification Standards	CCS, ABS, NK, BV, LR, RINA, DNV, KR, RS, VR

Product Specifications:

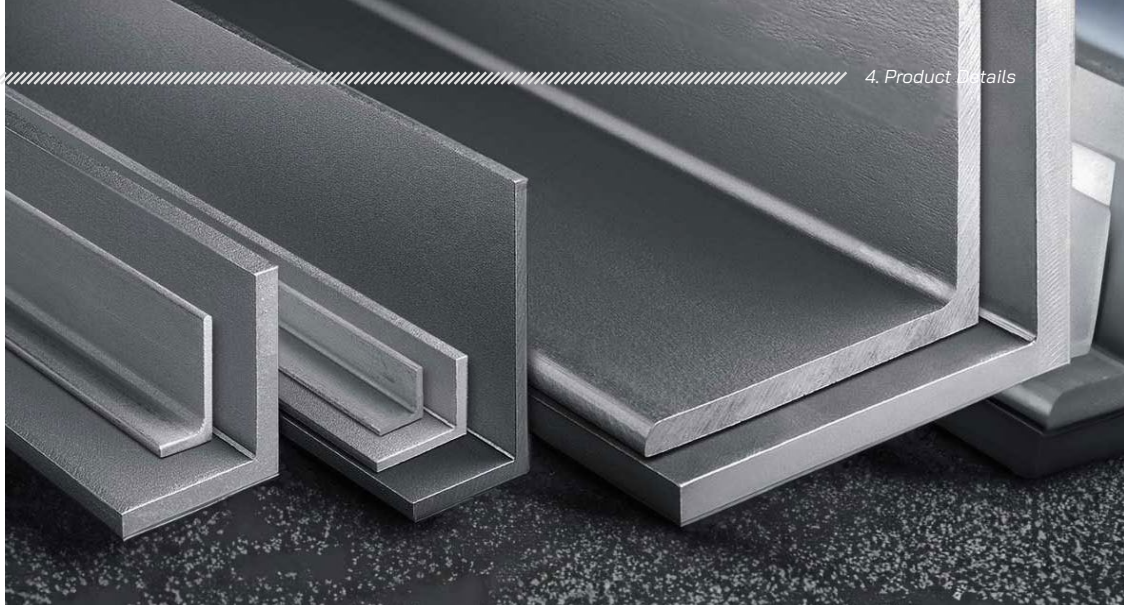
Designation (HP)	Height (b) (mm)	Web Thickness (t) (mm)	Flange Width (c) (mm)	Weight (kg/m)
HP 120 x 6	120	6	17	7.32
HP 140 x 7	140	7	19	9.75
HP 160 x 8	160	8	22	12.72
HP 180 x 9	180	9	25	16.22
HP 200 x 10	200	10	28	20.14
HP 240 x 12	240	12	34	29.27
HP 300 x 12	300	12	43	36.60

Unequal Angle Steel

Featuring an L-shaped cross-section with legs of differing lengths, Unequal Angle Steel is engineered for asymmetrical structural components and specialized technical applications within the shipbuilding and maritime industries.

Stavian Industrial Metal supplies Unequal Angle Steel complete with a full suite of classification society certificates (Class Certificates) adhering to both domestic and international standards. This ensures uncompromising quality for even the most demanding industrial and offshore projects.

CATEGORY	DETAILS
Origins	Vietnam, Europe, Asia, America, Middle East, Africa
Applications	Specially designed for the fabrication of main frames for mega-vessels and offshore oil & gas structures.
Technical Properties	• Specifically engineered to meet diverse thickness and leg length requirements, enabling optimal stress distribution within confined spaces. • Enhances the load-bearing capacity for critical blocks/ segments while maintaining high assembly flexibility.
Classification Standards	CCS, ABS, NK, BV, LR, RINA, DNV, KR, RS, VR



Product Specifications:

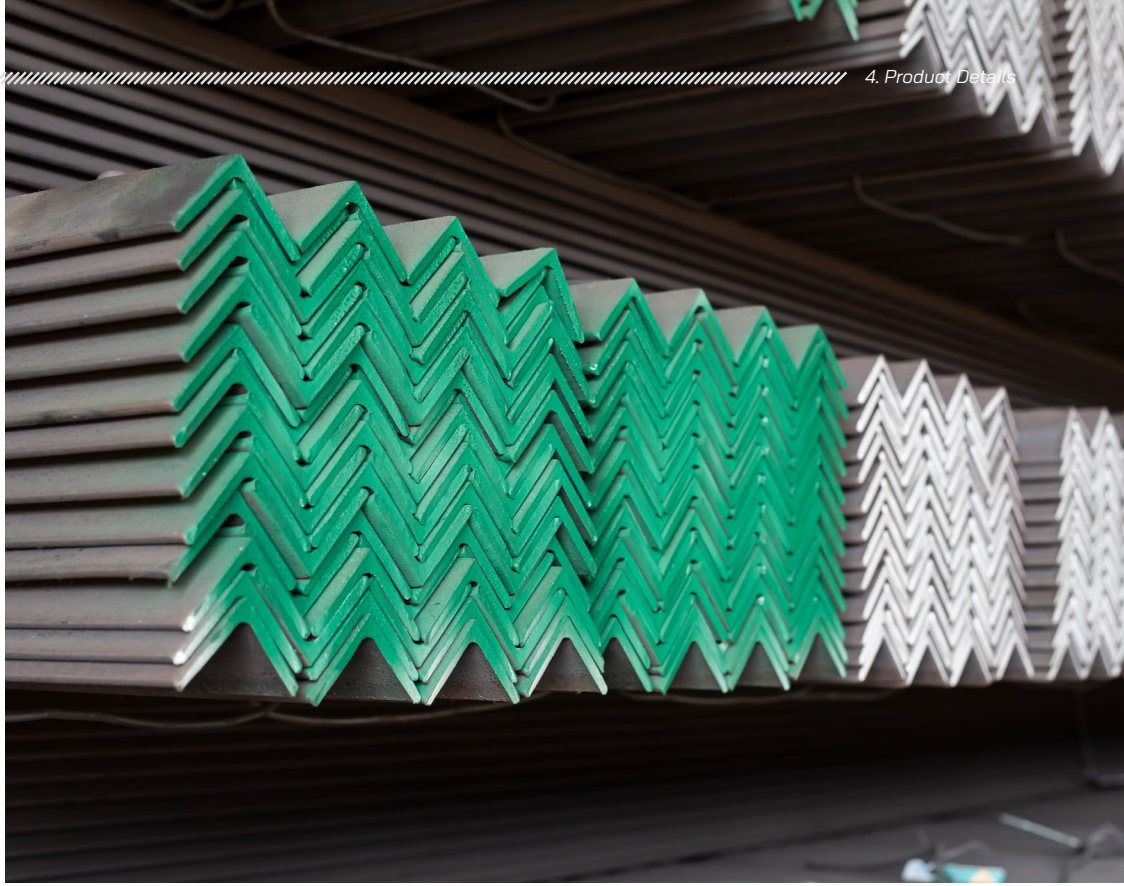
Dimensions (H x B) (mm)	Web Thickness (t1) (mm)	Flange/Bulb Thickness (t2) (mm)	Weight (kg/m)	Common Applications
200 x 90	9	14	23.3	Small ship framing
250 x 90	10	15	29.4	Cargo ship framing
300 x 90	11	16	36.3	Medium-sized container ships
350 x 100	12	17	45.3	Offshore rig structures
400 x 100	13	18	53.8	Ultra Large Crude Carriers (VLCC)
450 x 125	12.5	18	60.8	Major offshore projects

Equal Angle Steel

Equal Angle Steel supplied by Stavian Industrial Metal features a stable supply chain and reliable quality, with rigorous control over geometric tolerances to ensure high precision during fabrication.

As a result, our products efficiently meet the demanding requirements for cutting, assembly, and welding at shipyards. This contributes to optimized production schedules, enhanced structural integrity, and guaranteed consistency across all components within the shipbuilding and maritime industries.

CATEGORY	DETAILS
Origins	Vietnam, Europe, Asia, America, Middle East, Africa
Applications	• Fabrication of support frames, engine beds, ladder systems, handrails, and technical structures within engine rooms. • High versatility with easy installation and replacement, effectively reducing project lead times.
Technical Properties	• L-shaped cross-section with two perpendicular legs of equal width. • The symmetrical profile ensures high load-bearing capacity, providing excellent resistance to tension, compression, and superior structural rigidity. • Hot-rolled product with high deformation resistance and durability against harsh environmental impacts.
Classification Standards	CCS, ABS, NK, BV, LR, RINA, DNV, KR, RS, VR



Product Specifications:

Section Type	Dimensions (A x B x t) (mm)	Weight (kg/m)	Applications
Equal Angle	65 x 65 x 6	5.91	Used for engine beds and handrails.
Equal Angle	100 x 100 x 10	14.9	Load-bearing auxiliary structures.
Equal Angle	150 x 150 x 12	27.3	Deck reinforcement and stiffening.

5. QUALITY ASSURANCE



5. Quality Assurance



Quality Assurance

Stavian Industrial Metal is committed to supplying shipbuilding steel products that strictly meet quality requirements, technical standards, and classification regulations in the maritime and shipbuilding industry. This serves as a critical foundation to ensure safety, structural durability, and operational efficiency for newbuilding, ship repair, and offshore projects.

Products supplied by Stavian Industrial Metal are capable of meeting certification requirements from reputable domestic and international classification societies, including VR, ABS, DNV, LR, BV, NK, KR, CCS, and RINA. Each shipment is subject to stringent control in terms of origin, specifications, and quality, and is accompanied by complete CO/CQ documentation and relevant technical certificates. In addition, inspections and verification are conducted at the manufacturing plant in accordance with project requirements prior to delivery. This process enables customers to maintain transparency, consistency, and reliability throughout the entire shipbuilding material supply chain.

Beyond compliance with standards, Stavian Industrial Metal has progressively strengthened its market position through strategic cooperation with reputable fabrication and shipbuilding companies such as Viet Hai, An Dong, and Dai Dung. Practical collaboration with these industry partners demonstrates the company's supply capability, technical coordination, and responsiveness to the specific requirements of the maritime sector.

Building on this foundation, Stavian Industrial Metal continues to expand its supply capabilities in line with international standards, aiming to become a trusted partner for large-scale shipbuilding and maritime infrastructure projects in Vietnam, across the region, and globally.

CONTACT INFORMATION

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STAVIAN INDUSTRIAL METAL.,JSC

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