



POWER THAT CONNECTS

 **MARCEGAGLIA**
PLATES

STRUCTURAL STEELS BRIDGES

Marcegaglia Plates structural steels for bridges are designed to ensure **mechanical strength, weldability and durability**, even under dynamic loads, repeated stress and variable environmental conditions.

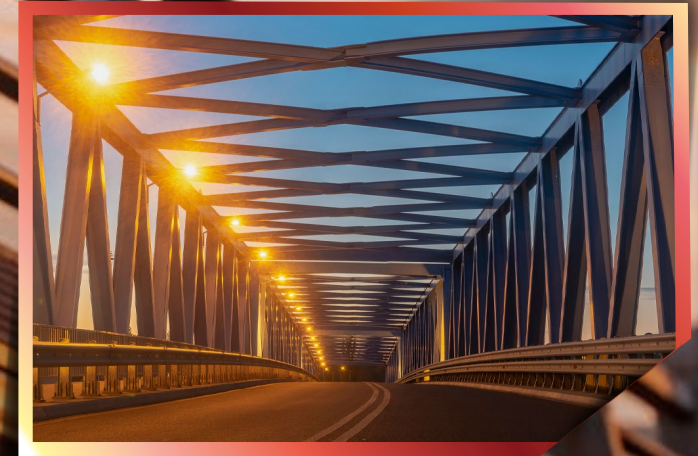


EN structural steels

Steels according to **EN 10025-2** provide a versatile base for general structural applications and are suitable for manufacturing components with good workability, weldability and strength. Grades according to **EN 10025-3**, weldable fine-grain steels in the normalized or normalized rolled condition, are suitable for applications requiring greater mechanical reliability, uniformity and toughness, even under severe conditions. Steels according to **EN 10025-5** are particularly suitable for exposed structures thanks to their enhanced resistance to atmospheric corrosion, an important feature in infrastructure and bridge applications.

ASTM/ASME steels

The range also includes steels compliant with **ASTM / ASME** standards, widely used in international markets. Standard structural grades, grades with improved toughness and bridge steels make it possible to meet different design requirements, from structural sizing to in-service durability.



GRADES AND MANUFACTURING STANDARDS

MANUFACTURING STANDARD	PRODUCT DESIGNATION	GRADE
EN 10025-2	Structural steels for general purposes	S235JR(C) +AR/+N, S235J0(C) +AR/+N, S235J2(C) +AR/+N, S275JR(C) +AR/+N, S275J0(C) +AR/+N, S275J2(C) +AR/+N, S355JR(C) +AR/+N, S355J0(C) +AR/+N, S355J2(C) +AR/+N, S355K2(C) +AR/+N
EN 10025-3	Normalized/normalized-rolled fine-grain structural steels (*)	S275N, S275NL, S355N, S355NL, S420N, S420NL, S460N, S460NL
EN 10025-5	Structural steels with improved atmospheric corrosion resistance	SS355J0W +AR/+N, S355J2W +AR/+N, S355K2W +AR/+N, S355J4W+N, S355J5W+N
ASTM A36, ASME SA36	Carbon structural steel	A36, SA36
ASTM A283, ASME SA283	Low and intermediate tensile strength carbon steel plates	A283 / SA283 Grade C, Grade D
ASTM A572, ASME SA572	High-strength low-alloy Columbium-Vanadium steels	A572 / SA572 Grade 42, Grade 50, Grade 55, Grade 60, Grade 65
ASTM A573	Structural carbon steel plates of improved toughness	A573 Grade 65, Grade 70
ASTM A588	High-strength low-alloy steel with improved atmospheric corrosion resistance	A588 Grade B
ASTM A709	Structural steels for bridges	A709 Grade 36, Grade 50, Grade 50W

(*) Available with CE marking

PRODUCTION RANGE

Min. thickness	7*
Max. thickness	250**
Min. width	1,000
Max. width	3,020/3,000***
Min. length	2,000
Max. length	21,000
Max. plate weight	24,000

(*) Customized sizes feasible and subject to mill approval
 (**) CE marking extension up to 200 mm
 (***) Natural edges / Cut edges

Applications

- load-bearing structures for road and railway bridges
- welded components subject to fatigue
- structures exposed to aggressive environments
- viaducts and complex infrastructure applications

Features

- high mechanical strength
- excellent toughness, even at low temperatures
- good weldability
- enhanced resistance to atmospheric corrosion

Standards and range

Our heavy plates are available according to the main international standards:

- EN 10025-2 / -3 / -5
- ASTM A36, A283, A572, A573, A588, A709

Marcegaglia's expertise in the production of structural steels results in materials capable of combining **performance, reliability and consistent quality**.

Every project built with our heavy plates is designed to stand the test of time and contribute to the construction of solid, durable infrastructure compliant with international standards.



Marcegaglia Plates

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***CONTACT US TO RECEIVE SUPPORT IN
SELECTING THE HEAVY PLATES BEST
SUITED TO YOUR PROJECT.***

