
GIVING VOICE TO THE WIND
MARCEGAGLIA
PLATES

STEEL FOR **WIND MILLS**

Marcegaglia Plates heavy plates for wind mills are designed to ensure **fatigue strength, stability and durability**, even under cyclic loads, wind exposure and variable environmental conditions.

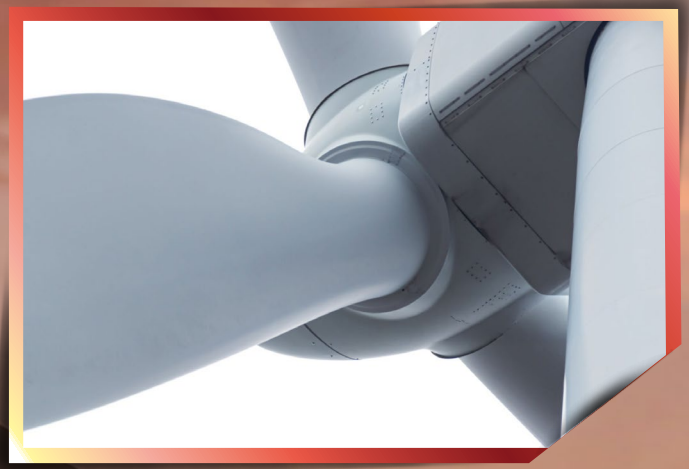
Developed for both onshore and offshore applications, our solutions contribute to the construction of efficient, durable structures suitable for severe operating conditions.

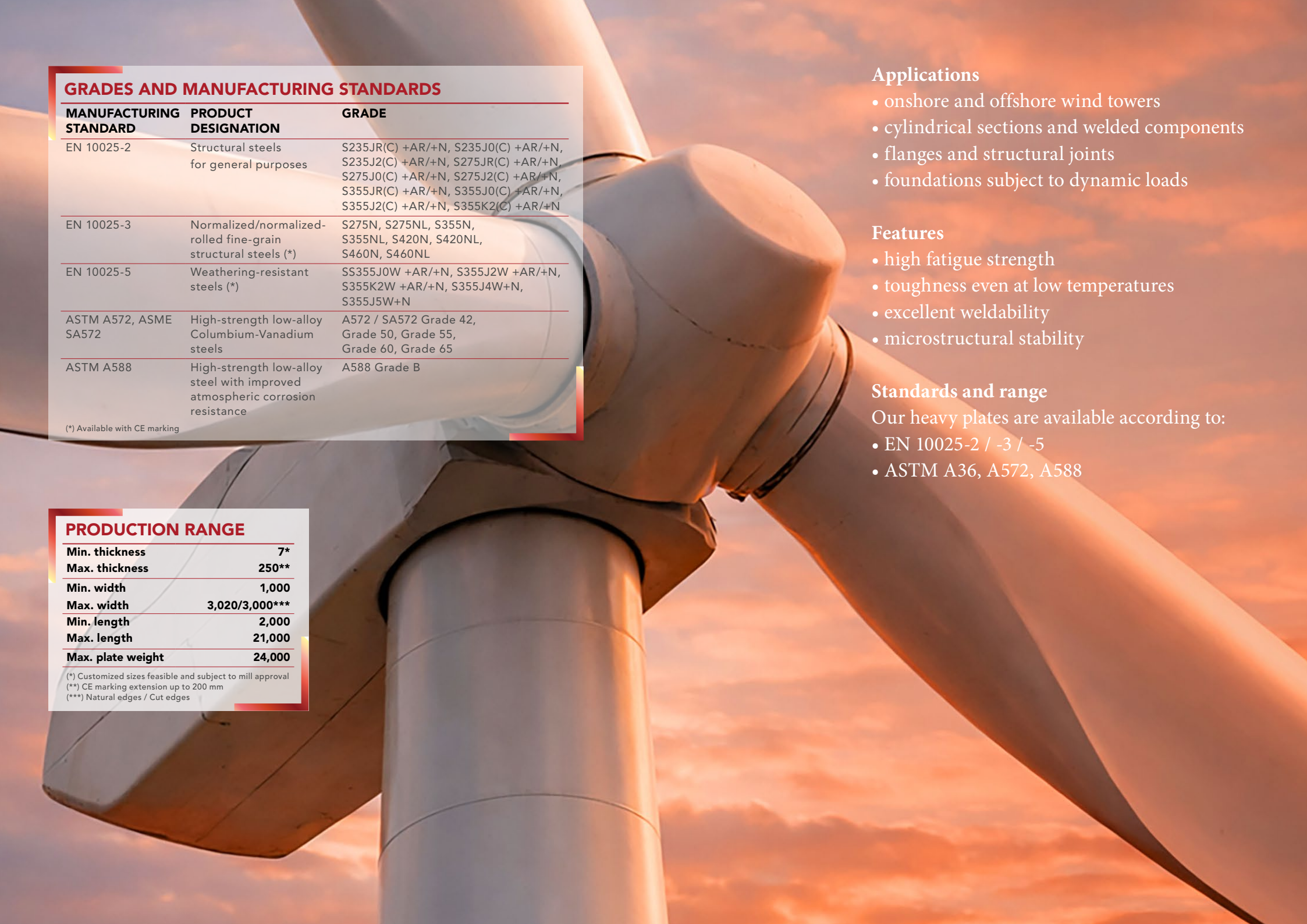
EN structural steels

Steels according to **EN 10025-2** provide a versatile base for general structural applications and secondary components.
Grades according to **EN 10025-3**, fine-grain and normalized, are particularly suitable for the wind sector thanks to their ability to ensure strength, uniformity and reliable behavior under repeated loads.
Steels according to **EN 10025-5** are suitable for exposed applications where greater resistance to atmospheric corrosion is required.

ASTM/ASME steels

The range also includes steels compliant with **ASTM and ASME** standards, used in international wind energy projects.
High-strength grades and grades with improved behavior in exposed environments make it possible to meet design requirements, ensuring reliable performance under severe operating conditions.





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	Weathering-resistant steels (*)	SS355J0W +AR/+N, S355J2W +AR/+N, S355K2W +AR/+N, S355J4W+N, S355J5W+N
ASTM A572, ASME SA572	High-strength low-alloy Columbium-Vanadium steels	A572 / SA572 Grade 42, Grade 50, Grade 55, Grade 60, Grade 65
ASTM A588	High-strength low-alloy steel with improved atmospheric corrosion resistance	A588 Grade B

(*) 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

- onshore and offshore wind towers
- cylindrical sections and welded components
- flanges and structural joints
- foundations subject to dynamic loads

Features

- high fatigue strength
- toughness even at low temperatures
- excellent weldability
- microstructural stability

Standards and range

Our heavy plates are available according to:

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

In the wind energy sector, every design detail affects plant durability and reliability. Marcegaglia Plates' expertise in producing structural steels results in materials capable of ensuring **performance continuity, safety and durability**, contributing to the construction of efficient and reliable systems over time.

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

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