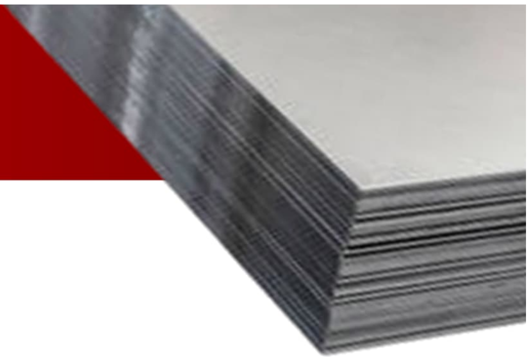
HIGH STRENGTH PLATES



WHAT IS IT ABOUT?

High-strength steels are characterized by a low content of carbon and alloying elements, which give them excellent functional properties such as suitability for cold forming, profiling, welding or coating.
Their hardening obtained by precipitation and refinement of the grain size makes it possible to achieve high levels of mechanical strength.
They combine improved weldability due to the very low carbon level with good formability. Their mechanical characteristics facilitate forming on presses and automated lines. They are also characterized by good fatigue resistance and impact resistance.
Thanks to their high yield strength (Re), they are particularly suitable when weight reduction is sought, which is why these steels are frequently used as a replacement for structural steels.
HLE sheets are used in the automotive, agricultural, lifting or handling sectors.

DESIGNATION

HLE sheets are available in different qualities:

- **S 355 MC**
- **S 420 MC**
- **S 500 MC**
- **S 700 MC**

* "S" stands for structural steel.
* The number that follows denoting the minimum yield strength in N/mm^2.
* The terminology "MC" stands for thermomechanical rolling.

STANDARDS

HLE sheets are governed by the following standards:

EN 10149.2: which governs the nuances and qualities.
EN 10051: which governs dimensional and flatness tolerances