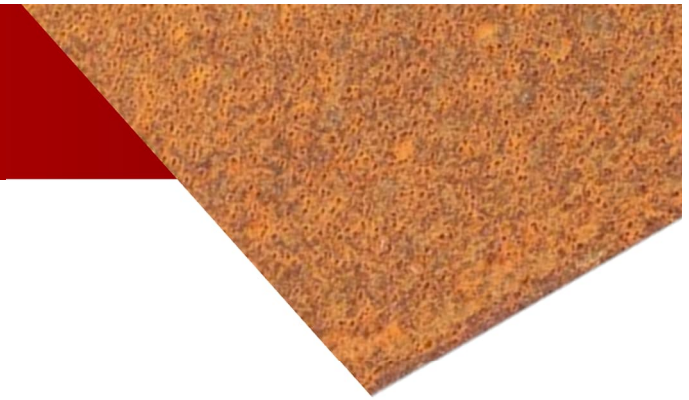
"CORTEN" SHEETS



WHAT IS IT ABOUT?

Anti-corrosion plates of the "corten" type are sheets offering improved resistance to atmospheric corrosion. When this steel is used in its raw state (uncoated) and exposed to the weather, a highly adherent layer of protective oxide forms on its surface. As soon as the phenomenon stabilizes, this "patina" presents a purple-brown color and a finely grained appearance.
This oxidation layer protects the underlying material on which further oxidation is significantly delayed.
If this patina breaks, the oxidation phenomenon resumes and generates a new protection of the steel. The difference with "standard" structural steel is the addition of copper, chromium and nickel alloys which makes it possible to obtain a weather-resistant steel. Due to its chemical composition, when used unprotected, there is greater resistance to atmospheric corrosion compared to non-alloy steel.
It is important to note that its low-carbon chemical composition and fine-grained structure give it good weldability by conventional processes.
The field of application of anti-corrosion sheets is very broad: architecture, sculpture, engineering structures, industrial chimneys, transport wagons, silos, containers, etc.

DESIGNATION

Corten sheets are available in different qualities:

- **S 235 J0 WP**
- **S 355 J0 WP**
- **S 355 J2 WP**

* "S" stands for structural steel.
* The number that follows denoting the minimum yield strength in N/mm^2.
* The mention "J0" stands for the resistance test.
* The terminology "WP" means that steel is resistant to atmospheric corrosion.

STANDARDS

Plates for pressure vessels are governed by the following standards:

NF EN 10025-5.
NF EN 10155.

COMMON FORMATS

Common sizes of anti-corrosion sheets are:

- **1000 x 2000**
- **1250 x 2500**
- **3000 x 1500**
- **2000 x 4000**

***** Common thicknesses are 2-10mm.
***** Other sizes are available upon request**.**