

## GENERAL FEATURES

The square and rectangular hollow sections for structures are available in the following forms, according to the manufacturing method:

- **HOT FINISHED SEAMLESS SQUARE AND RECTANGULAR HOLLOW SECTIONS ACCORDING TO EN 10210**  
 These hollow sections are manufactured through hot forming process, using round seamless tubes as base material.
- **HOT FINISHED WELDED SQUARE AND RECTANGULAR HOLLOW SECTIONS ACCORDING TO EN 10210**  
 These hollow sections are manufactured through coil forming and welding. This process could be performed by hot forming, or cold forming followed by heat treatment.
- **COLD FINISHED WELDED SQUARE AND RECTANGULAR HOLLOW SECTIONS ACCORDING TO EN 10219**  
 These hollow sections are manufactured through coil forming and welding, without any further heat treatment.



## CE MARK FOR CONSTRUCTION PRODUCTS

All square and rectangular hollow sections on our stock belong to manufacturers adopting a Factory Production Control complying with the European Regulation 305/2011 for construction products, with approval of a third party notified body. Therefore the material is endorsed by relevant CE mark and is accompanied by the Declaration of Performance of the manufacturer.

SICAM has also implemented a Factory Production Control on the cutting process, which is certified by a third party notified body according to the norm EN 1090-1. Upon request, tubes cut to required length by band saw machines (with ends not finished for immediate welding) can be supplied in compliance with class EXC3 of the norm EN 10901-1, delivering them with a specific Declaration of Performance.

## STEEL DESIGNATIONS

The alphanumeric designations are according to EN 10027/1 and to ECISS IC 10. Their description is detailed here below:

- **Capital letter “S” stands for “STEEL FOR STRUCTURAL APPLICATIONS”.**
- **The successive number stands for the minimum yield value required for wall thickness  $\leq 16$  mm.**
- **Abbreviations JR, J0, J2 and K2 stands for impact properties: JR at +20°C; J0 at 0°C; J2 and K2 at -20°C.**
- **Capital letter “N” stands for “NORMALIZED STEEL”.**
- **Capital letter “M” stands for “THERMOMECHANICAL ROLLING”.**
- **Capital letter “L” stands for the specific impact properties at – 50°C.**
- **Capital letter “H” stands for “HOLLOW SECTION”.**