SIDERVAL
SPECIAL PROFILES IN STEEL

Architecture

Custom Carbon Steel Profiles for Dutch Greenhouse

Profile:
Special profiles
Material grade:
Carbon steel S235
Execution:
Hot Extruded
Destination:
Netherlands

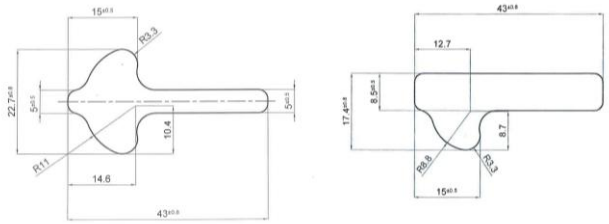
BACKGROUND

Greenhouses are essential infrastructure for modern **agriculture**, especially in countries like the Netherlands, where climate control and year-round production are critical to food supply and export markets.

The structural framework of a greenhouse must offer high mechanical stability and durability while being adaptable to specific design and installation requirements. In this project, the steel profiles served as **support structures** for the glass panels of a mid-sized greenhouse.

Aesthetic integration was also a factor: the profiles would be painted green after fabrication, which made **carbon steel** the most suitable and cost-effective material.

CHALLENGE



The project presented a combination of constraints that required a flexible and efficient production strategy from the start:

- **Low order volume**: The greenhouse was not large, so the required quantities were very limited.
- **Custom geometry**: Two different special shapes were needed to match the architectural and structural design.
- **Short delivery time**: The customer had a tight construction schedule and limited technical input.

SOLUTION

Despite the limited quantities and the special geometries involved, **Siderval** was able to respond with the full extent of its manufacturing flexibility. Leveraging our hot extrusion technology, we produced two fully customized profiles in carbon steel that met all the client's technical requirements, both in terms of mechanical performance and dimensional accuracy.

Thanks to the availability of **S235 material in stock**, and the absence of costly tooling changes, we could start production quickly and deliver the finished profiles in approximately **two months**. This streamlined approach allowed the customer to stay on schedule without compromising on quality, demonstrating once again how extrusion is ideal not only for large industrial volumes, but also for **highly tailored, small-batch projects**.