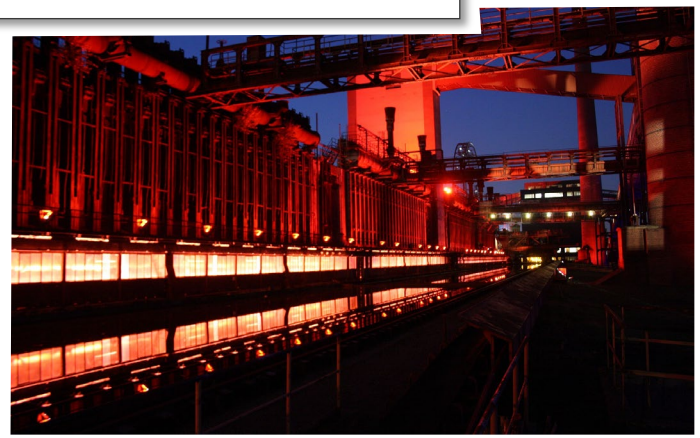
SIDERVAL
SPECIAL PROFILES IN STEEL

Energy & Power Gen

Hot extruded Special Profiles for Energy Industry

Profile:
Finned tube
Material grade:
Carbon steel 16Mo3
Execution:
Hot Extruded
Destination:
South America

BACKGROUND

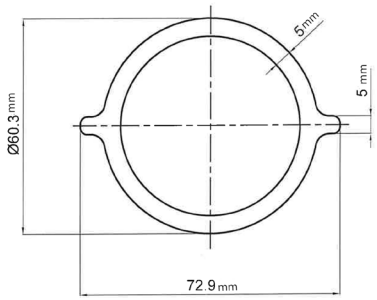


The customer is one of the leading steel producers in the vast **South American** region.

Equipped with a state-of-the-art facility, its remarkable production capacity amounts to an impressive 5 million tons of steel sheets per year. This cutting-edge facility serves as a fundamental pillar in the industrial landscape, supplying its products to various sectors, including the automotive industry, oil and gas sector, shipbuilding, and many others.

The customer is facing an **issue of cracks** in the tubes that make up the industrial boilers in their plant, these boilers use steel tubes for heat exchange. To produce the finned tubes, the customer used to weld a plate on-site between the hollow sections.

CHALLENGE



The production method used by our customer, due to wear and high heat, led to cracks at the welding point and, consequently, on the tube itself, forcing the client to replace them frequently.

We proposed an alternative production technology by creating **monolithic alloy profiles** with these specifications:

- Manufactured in **carbon steel 16Mo3**
- **Special geometry** with fins to allow welding the profiles together without overheating at the tube
- **Fast** international delivery directly to the customer

SOLUTION

The solution we found for these challenges are **hot extruded** 16Mo3 solid finned tubes to replace the standard tubes they were using.

This allows for **welding between the tubes** on the fin rather than on the tube itself, preventing cracks.

Chose this steel alloy because it is resistant to high temperatures without the risk of corrosion due to continuous overheating. Completed a **fast and international air delivery** to enable the customer to promptly set up their systems.

The customer has currently ordered a quantity to replace a plant as a trial, achieving excellent results and placed another order for their various facilities.