

FORTAL: the benchmark in designing and manufacturing standard and customised secure access for work at height



A French family-run business located in Barr, Alsace, FORTAL designs, manufactures and distributes its ranges of products on the domestic and international market.

With our solid industrial experience built up over the years in the metal industry (steel and aluminum), FORTAL has become a flagship in France for the design and manufacture of secure access systems at height. FORTAL has made its mark in a broad array of sectors:

- Building trades
- Civil engineering works
- Petrochemicals
- Civil, military and business aviation,
- Public transport by rail or road
- Industrial plant manufacturing and the food industry

FORTAL dedicates every year about 1 million € to the investment

Extensive know-how

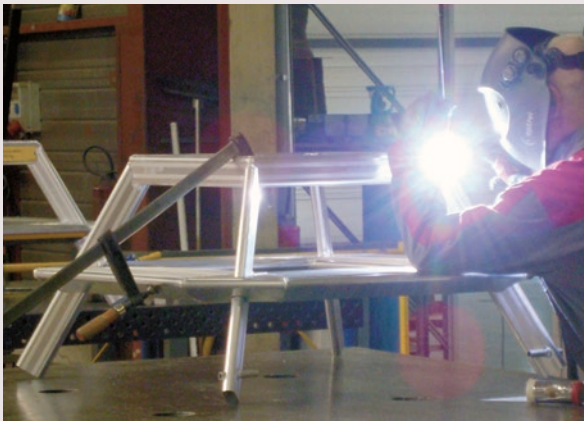
At FORTAL, our vast know-how means we can adapt with absolute precision to the specific requirements of the different sectors we work with and deliver solutions ranging from the simplest to the most complex systems in strict compliance with specifications.

FORTAL products are designed in the form of machine-welded sub-sections. Joints are mainly made with plates and counter-plates. This process greatly facilitates maintenance operations, speeds up the execution phase and cuts down on-site assembly and erection.

Highly qualified team

Our products comply with standards ISO 14 122-1-2 and 3. FORTAL has a team of 150 staff members boasting an in-house engineering office, a dedicated sales engineering department, and qualified assemblers and welders specialised in different assembly types (TIG - MIG - MAG) with regular quality control of their welding skills by external inspection organisations. They are standard NF EN 287 - 2 approved.

At FORTAL, our sales force is devoted to providing impeccable customer service. With our network of dealers, FORTAL covers the entire French territory and is also spearheading the international market with customers in Europe, Africa and the Middle East.



A team of welders qualified under NF EN 287-2 - © FORTAL

Top-quality materials

At FORTAL, we are highly specialised in aluminum and metal work. Most FORTAL products are made from series 5000 and series 6000 extruded aluminum profiles. These profiles are particularly resistant and are specially recommended in highly corrosive marine environments. For external usage, this high-quality aluminum is guaranteed to withstand the harshest weather conditions and is maintenance-free. We opt for the most suitable material or combination of materials depending on specifications or specific restrictions. For its assemblies, FORTAL uses, depending on the case, zinc-plated steel or stainless screws (ladders with safety cages) in order to offer better durability over time. Furthermore, we offer a range of coverings: tear plate, aluminum checker plate, grating, plywood 9/12 mm and various options such as an anodised or lacquered finish for greater customisation.

Eco-friendly products

In view of its excellent properties - resistance to corrosion, lightweight, malleability, virtually infinite recyclability - aluminum is a highly prized material on the FORTAL production line. Moreover, recycling only takes 5 % of the energy required for primary production and so is very much in line with sustainable development.

State-of-the-art manufacturing

Our production machinery and tooling are constantly updated with the latest leading-edge technology due to our long-term investment programme. Our production plant at FORTAL includes laser machining centres, 3 and 5 axis CNC machining centres, a cutting and milling machine, aluminum and steel welding robots, an automated welding unit, a drilling and steel cutting centre and a CNC bending press etc.

Traceability and quality - keys to excellence

Each FORTAL component is identified by means of a specific number to ensure perfect traceability at every point in the production process. Our products regularly undergo testing and inspection by various approved organisations such as AFNOR and CEBTP. FORTAL also boasts its own laboratory for inspecting welding using macrographic testing.

Conformance with standards

All FORTAL products comply with the French and international standards in force.



Drilling and steel cutting machine - © FORTAL



Decking robots - © FORTAL



FORTAL : our standard product ranges

- Step stools
- Fixe and mobile stepladders
- Special construction platforms
- Loading/unloading docks - waste container access
- Tailor-made solutions : straight and platform stairways, double access staircases, mobile platforms
- Ladders
- Ladders with safety cages
- Mobile scaffolding and towers
- Facade scaffoldings



Double access staircase - © FORTAL



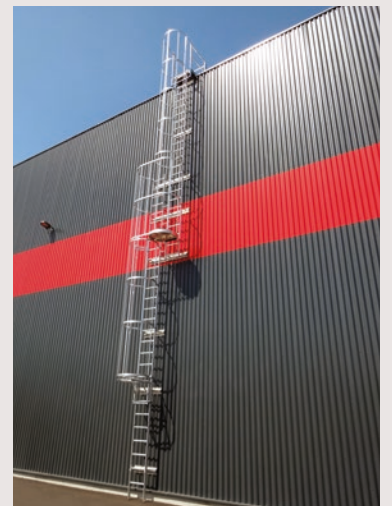
3-section extension ladder - © FORTAL



Mobile scaffolding tower - © FORTAL



Mobile, folding platform PIRL - © FORTAL

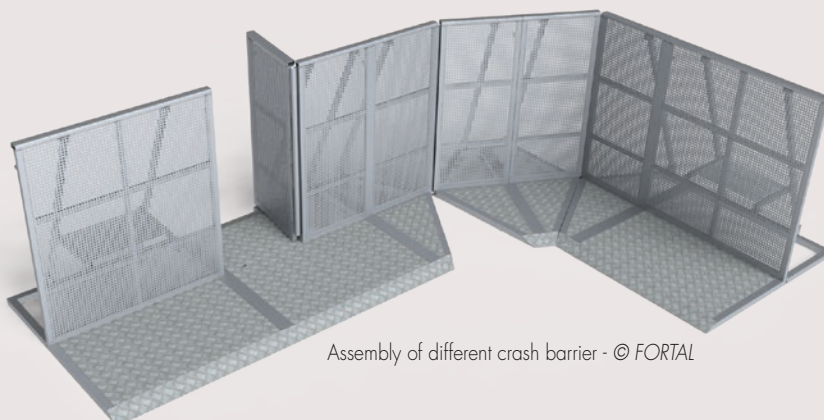


Ladder with safety cages on industrial building
© FORTAL

FORTAL : our industrialized adapted products

Design and manufacture of aluminum and steel welded assemblies for customized solutions from small to large series.

FORTAL offers technical solutions according to customer specificities thanks to its adaptation capabilities, its dedicated design office, its production machinery and tooling and its design software.



Assembly of different crash barrier - © FORTAL



Storage cradle for scaffolding platforms
© FORTAL



FORTAL: our bespoke solutions

Present in many areas of activities, FORTAL proposes tailor-made solutions for:

- **Industry and petrochemical industry** with gangways, safety rails, staircases and platforms
- **Public transportation on rail and road.** Mainly designed for technical and maintenance services, FORTAL equipment ranges fall into the following categories: access stepladders, gangways and maintenance bays, mobile platforms
- **Aeronautical industry:** FORTAL's equipment ranges are mainly designed for technical and maintenance services and fall into the following categories: runway mobile and technical stepladders, docks, access to doors.

Uses of aluminum are virtually limitless, FORTAL is also active in **wind energy, water treatment, shipbuilding industry...**



Technical access stepladder for front landing gear bay - © FORTAL



Height adjustable gangway - © FORTAL



Height adjustable gangway with hydraulic jacks for changing windscreens on high-speed trains - © FORTAL



Height adjustable maintenance gangway in working situation - © FORTAL



Mobile production platform - © FORTAL



Gangways on storage silos - © FORTAL