



ROMAG Stainless Steel Pressure Doors for over 30 years

To date, ROMAG has delivered more than 3000 stainless steel watertight doors worldwide. Since 2017, the furthest delivery point has been New Caledonia (north-east Australia).

How environmentally friendly are we?

Sustainability and eco-friendliness are popular buzzwords. And it is certainly good when everyone does their bit. Sadly, in many cases, the realm of public procurement is still too lax in assessing the environmental impact of products and their manufacture. When price is all that matters, sustainability is usually the first thing to go.

At ROMAG we are fortunate that our products are made predominantly out of stainless steel. Stainless steel does not deteriorate, erode or rust. That means after 100 years, 100 kg of stainless steel will still be 100 kg of stainless steel, which could be fully recycled if necessary.

This newsletter is dedicated to one of those sustainable products: stainless steel pressure doors. These are a specialty of ROMAG, with outstanding properties such as maximum safety, functionality, operating comfort, and compatibility with hygiene requirements. There is also a growing demand for extraordinary applications. We have the pleasure to present you some of them in this issue.

In our new building, we optimized our energy consumption. The results are amazing. Take a look at the details on page 4.

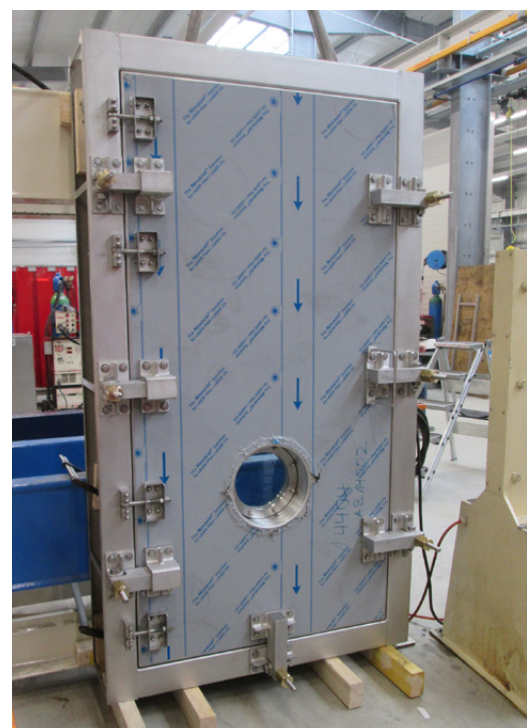
Finally, it is my great pleasure to introduce our **new CEO, Carlos D. Ochoa** who, after a brief orientation period, took the reins of the company at the beginning of April this year.

Best regards
Kurt M. Gloor

In addition to our storm water screens, stainless steel pressure doors are a true specialty of ROMAG and are built for a wide variety of purposes. Pressure doors are most commonly used in **reservoirs and drinking water treatment plants**. Advanced locking mechanisms, high operating comfort and uncompromising safety are the signature features of these pressure doors, which also satisfy all hygiene requirements.



ROMAG stainless steel watertight doors with proven functionality are unrivalled in terms of quality. They are also suitable for use in **storm and waste water systems and as doors to protect buildings against floods and avalanches**.



The request from New Caledonia was made via the Internet. In an existing sludge bunker, a mining company had to replace the existing access (manhole DN 800) with a new larger and safer access. Our engineering and experience convinced and ROMAG was awarded the contract.

Technical Data

Door size: 1200 x 2000 x 400 mm
Material: Stainless steel 316L, bath pickled and passivated
Load: Storage level 6.0 m WC, in the opening direction
Installation: Embedded in concrete wall ●

Stainless steel pressure doors: protecting buildings against avalanches

In the event of floods, landslides or avalanches, ROMAG watertight pressure doors are adapted to the respective needs and have proven themselves over time.

The Füreli engine room in Hinterrhein/ Switzerland had to be drilled with oversized openings to allow the massive turbines into the building. In the future, these accesses will be used for service and maintenance. As they face an avalanche slope, the particular protection of the building by watertight pressure doors was necessary.

Technical details of the pressure doors:

Door sizes: Inner width 2 x 1600 x 2500 mm and 1 x 900 x 2200 mm
Material: Stainless steel 304L
Load: 96 kPa (equal to a storage level of approx. 10 m WC)
Installation: Retro-adapted to the existing wall openings
Operation: Central locking, operable from inside and outside
Client: Kraftwerke Hinterrhein AG, Thusis CH
Execution: ROMAG aquacare AG (design, manufacture and installation)



Watertight pressure doors protect the Füreli power plant against avalanches in Hinterrhein/CH

Watertight pressure doors with double-sided resistance in the storm water retention tank Le Vengeron, Geneva

This pressure door was recently delivered for the storm water retention tank Le Vengeron at Geneva airport. The rainwater retained here comes from aircraft traffic and parking areas. The watertight pressure door frame was directly integrated into the 600 mm thick dividing wall of this giant tank, thus allowing different storage levels in the two halves of the tank. The watertight pressure door is mainly used as an opening for maintenance vehicles or overhead cranes.



Technical Data

Door size: Inner width 2000 mm
Clearance 2500 mm
Wall thickness 600 mm
Material: Type: Stainless steel 316L, bath pickled and passivated
Load: Storage level 8.0 m WC, on both sides and alternating

Installation: Integrated and cemented directly into the formwork
Client: Geneva Airport
Execution: ROMAG aquacare AG (design, manufacture and installation)

Visit us at the IFAT. Simply send an enquiry to office@romag.ch and we will then mail you an electronic admission ticket.

14–18 May 2018 in Munich



We look forward to your visit to the ROMAG booth in Hall A2, Booth 416

Stainless steel watertight pressure doors: tailored to every need

Whether it's for an inner width of 0.5 m to 4.0 m, a wall thickness of 15 cm to 90 cm, or a water column of 6 to 20 m, ROMAG adapts its stainless steel pressure doors to suit any conditions perfectly.

Owners and authorities put their trust in ROMAG's experience when it comes to reliability and operating safety. The failsafe function plays an essential role. In addition, it is important that watertight doors can be operated simply and easily by hand.

The skills and know-how of ROMAG engineers were also called upon when it came to constructing a watertight pressure door of record size (4 m x 3 m, weight 2.2 t) to access the flow structure at the end of the Lyssbach spillway gallery in Lyss/CH. This watertight pressure door is opened when maintenance vehicles must enter the gallery.



This watertight pressure door in the Lyssbach spillway gallery provides access for maintenance vehicles.

Flood protection with sliding watertight pressure doors that shut when needed

Sliding pressure doors seal off entrances and exits in the case of danger.

Sliding watertight pressure doors have several advantages. Easy operation, quick closing and small space requirements are important advantages. These doors are used in industrial buildings as well as in residential buildings, where they can also meet visual requirements.

In a residential building on the shores of the Lago Maggiore, ROMAG installed several sliding watertight pressure doors. In the event of a rise in the water level of the lake, these doors come into action and protect the building from flooding. They are installed at the normal entrances and exits of the ground floor.



This sliding watertight pressure door (1.7 x 1.9 m) protects the equipment room at the Mapragg reservoir in Bad Ragaz CH, which otherwise could be inundated in case of an extreme flood event.

The special solutions of ROMAG aquacare AG

Engineering and project management
Implementation of general contractor projects
Installation, service and repair

Drinking water – treatment & distribution

- Stainless steel equipment for reservoir, pumping station & water catchment
- Stainless steel piping, safety and pressure doors, slide valves, pressure vessels
- WABE® well chamber system, in polymer concrete or PE shafts

Surplus works in combined and separate sewer systems

- ROMAG high-capacity storm water screen for rain water cleaning
- Electromechanical equipment for rain water tanks and storage capacity channels
- Control gate-valves, shutters and emergency flaps, tank cleaning, baffles, stairs

Techno-SABA

Road rain water treatment plant

- Treatment plant for rain water from busy road sections

Micro-pollution

- Systems for eliminating micro-pollution in sewage water at the WWTP outlet

Building flood protection

- Tailored solutions for flood protection of buildings

Shaft covers and floor gates

- Drivable covers as per EN124, stainless steel, with automated guardrails
- Hydraulic drive, coverings, secured for public areas

Certifications and approvals

- ISO 9001:2008 / ISO 3834-2:2005
- CE, SVTI, SVGW

Your contact for further information:
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We welcome our new CEO Mr. Carlos D. Ochoa

Mr. Carlos D. Ochoa joined ROMAG in January this year. After an intense period of introduction, he took the reins from former CEO Kurt M. Gloor at the beginning of April.

Carlos D. Ochoa is 47 years old, born in Bogotá (Swiss place of origin Binningen/BL), is married and lives in Faoug/CH. He is a graduate chemical engineer and completed his studies with in Berne with a Master of Business Administration.

He has worked for various Swiss machine factories as production manager and sales manager. He can look back on a total of



15 years of experience in plant engineering. Mr. Carlos D. Ochoa also has a solid experience of innovation through his activity at Georg Fischer and his activities (from 2015 to 2017) as founder and partner of PIM Experts sàrl. Lausanne & Geneva.

Mr. Ochoa says: «I am delighted to follow in Mr. Gloor's footsteps and ensure continuity so that a Swiss company with a long tradition can continue to produce excellent water management products.»

Resource-saving sustainability in the new ROMAG building

Energy savings and environmental impact were major issues in designing the new building.

The building shells of the factory hall and office wing are optimally insulated. Modern, energy-saving technologies are implemented for heating, ventilation, lighting and production. A large part of the storage space is a roof-covered outdoor area, thus minimizing the volume that requires heating.

These investments are paying off – for us and for the environment. We calculated that in the first full year of operation 2017, we consumed 65% less electricity compared to the representative period in the former site.

The heating heat is produced by natural gas, since our zone is not yet connected to



The new location in the industrial area
 Birch in Düringen/CH.

a district heating grid. Another potential for sustainable development exists in the medium term as the roofs are designed for the installation of solar panels.