

## Technical information

### Floor gates



## Imprint

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## List of changes

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## 1 Introduction

Wherever a shaft needs to be covered so that it is accessible, watertight, or gas-tight, the right solution is available in the form of customised stainless steel floor gates.



### **Attention**

This technical information is no substitute for the operating instructions. In particular, the warning and safety instructions required in accordance with DIN EN 82079-1 (preparation of information for use (instructions for use) of products), which are necessary for installation, maintenance and troubleshooting on site, are missing.

## 2 Areas of application

Floor gates with hydraulic or electric drive are preferably used to increase occupational safety. Thanks to the versatile equipment options, the floor gates can be used at any location and thus guarantee the highest level of personal protection and SUVA-compliant installations.



*Figure 1: Opened floor gate with railings*

### **3 Functional features**

The floor gates are usually rectangular and, depending on their purpose, they are designed to be accessible only or to be driven over. Floor gates that can be walked on are often only set up, while those that can be driven on must be constructed level with the floor. The floor gates are stainless steel constructions with various profile reinforcements on the underside. Often, drive-on ground gates are also coated with the surface of the surrounding road (bitumen, paving stones, ceramic tiles). They are usually designed for vehicles up to 15t total weight. Our supplier also supplies floor gates for loads up to a maximum of 40t.

#### **3.1 Advantages**

- Comprehensive programme
- Exactly to customer dimensions and design
- Load capacity between 5 and 40 tonnes
- Folding railings
- Pull-up stairs
- Manual and electric opening aids
- All necessary safety devices
- Monitoring sensors
- Drive control with high safety requirement

## 4 Technical structure

The floor gates are equipped with opening aids, hold-open devices, and safety brackets. Gas springs with an integrated safety hold-open device are commonly used. Hydraulic cylinders are used for very heavy floor gates.

Folding railings and pull-up stairs made of stainless steel are among our supplier's specialities. The ingenious folding railings stow away as if by themselves when the cover is closed and easily unfold the next time it is opened. ROMAG's pull-up staircases have proven their worth in access and maintenance shafts of wastewater plants, which do not encounter the wastewater under the floor gates and remain clean.



Figure 2: View construction / installation

## 5 Practical applications

We will find out together which application is the right one for you during a conversation or an on-site visit. Do not hesitate to call us.



Figure 3: Floor gate at Limmatquai



Figure 4: Floor door completely open / locked



## 6 Technical data

Description	Values / Variants
Materials	304 L
	316 L
Load classes according to EN 124	3 kN
	15kN
	50kN
	125kN
	250kN
	400kN
Tightness	Water
	Odours
	Gases
Dimensions	According to customer requirements
Force to open the gate	Is possible with only one hand

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