



*open
for life*

KD FLOOD DOORS



2018

www.vrata-derzic.si





***Our door - your pleasure - our pride.
For 20 years ...***



Content:

| | |
|--|----|
| KD FLOOD DOORS | 4 |
| ORDINARY KD FLOOD DOORS | 5 |
| INSTALLATION..... | 5 |
| SPECIAL FEATURE..... | 5 |
| PROTECTION | 6 |
| DOOR DIMENSIONS | 7 |
| SPECIAL WARNINGS | 7 |
| PNEUMATIC FLOOD KD DOORS..... | 8 |
| INSTALLATION..... | 8 |
| SPECIAL FEATURE..... | 8 |
| DOOR DIMENSIONS | 8 |
| PROTECTION | 9 |
| STANDARD EQUIPMENT OF PNEUMATIC KD FLOOD DOORS | 9 |
| SPECIAL WARNINGS | 10 |

KD FLOOD DOORS

Metal KD flood doors are a high-quality product. We manufacture them in accordance with the highest quality standards.

All KD flood door models are carefully designed in the Autodesk Inventor 3D program.

For the manufacture of metal KD flood doors, we use metal with EN S235JR quality.

The surface of metal sheet metal doors is protected by a layer of powder coating in accordance with DIN 55633 and EN ISO 12944. A standard application of the coating achieves C3 category protection. A C3 category is recommended for doors that are exposed to external conditions. The basic colours of the coating are selected from the RAL colour chart, but in the case of larger orders it is possible to arrange for special colours according to your wishes.



Metal KD flood doors are not self load-bearing elements.

The doors are installed in watertight concrete walls.

Metal door advantages:

- quality and precise manufacturing with superior hardware (CNC),
- humidity resistance,
- high corrosion protection, higher resistance to damage,
- smooth closing and perfect fit of leaf to seal.

KD flood doors ensure complete safety of the building in the event of floods.



Residential house in the immediate vicinity of the Krka river

ORDINARY KD FLOOD DOORS

Ordinary metal KD flood doors are suitable for installation in buildings where there is a possibility of flooding. The doors can ensure a perfect water seal up to a height of 2.5 m as long as they are installed in a watertight wall. The doors are completely flood-proof.

INSTALLATION

The installation of the frame of a KD flood door must be performed in conjunction with the construction, i.e. the concreting of the wall. The frame of the door must be covered in watertight concrete.

SPECIAL FEATURE

Ordinary KD flood doors have a minimum height threshold of 30 mm from the finished floor, in order to ensure sealing. When a risk of flooding has been announced, the doors must be closed manually.



Henkel, Maribor

The door and the frame are manufactured from a solid steel construction. The door can also be manufactured from stainless steel.

The door is fitted with an EPDM foam seal, which ensures long-term reliable sealing.

SEAL PROPERTIES:

- exceptional sealing properties in extreme weather conditions and an excellent temperature stability (from $-40\text{ }^{\circ}\text{C}$ to $+150\text{ }^{\circ}\text{C}$) in cold climatic conditions;
- compared with seals from other materials, it is very resistant to wear, ageing, weather, ozone, and UV.

PROTECTION

The doors are double powder-coated, which ensures a total coating of 120 microns. The colour can be selected from the RAL colour chart.

The doors have class C3 corrosion protection in accordance with DIN55633 and EN ISO 12944 standards.

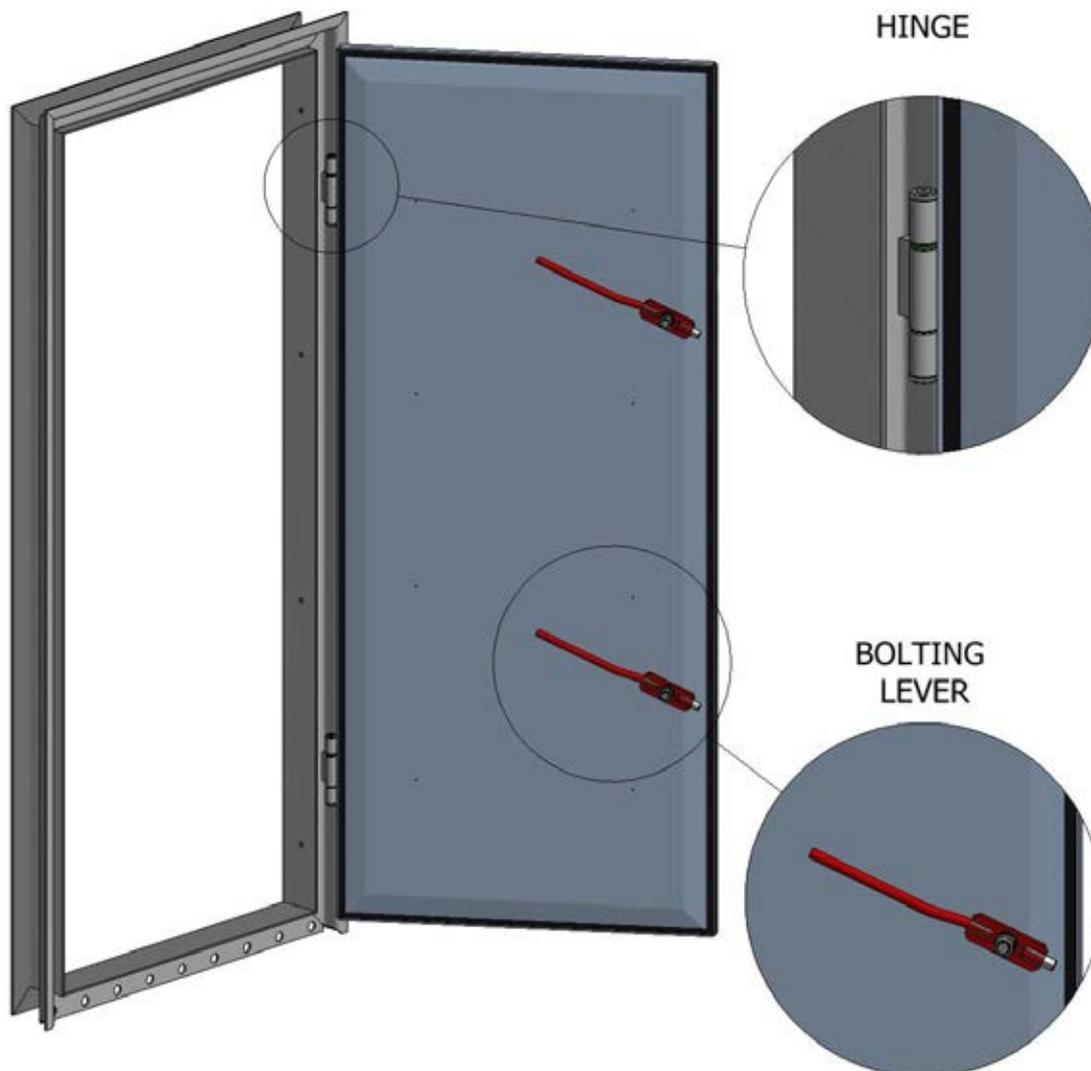


Residential house

DOOR DIMENSIONS

| | |
|-------------------------|-------------|
| Maximum dimensions (mm) | 1400 x 2300 |
|-------------------------|-------------|

THE DOORS ARE OPENED AND CLOSED MANUALLY.



SPECIAL WARNINGS

In order to ensure proper functioning, the doors must be serviced every two years by a person who has been authorised by the door manufacturer Vrata Deržič, s. p.

Otherwise the manufacturer, Vrata Deržič, s. p., cannot guarantee the proper functioning of the doors and shall not be responsible for potential consequences.

Unauthorised persons are not permitted to interfere with the doors.

PNEUMATIC FLOOD KD DOORS

Metal pneumatic KD flood doors are installed in buildings where there is a possibility of flooding. The doors ensure a perfect water seal up to a height of 3 m as long as they are installed in a watertight wall, since the doors are completely flood-proof.

INSTALLATION

The installation of the frame of a flood door must be performed in conjunction with the construction, i.e. the concreting of the wall. The frame of the door must be covered in watertight concrete.



Faculty of Chemistry and Chemical Technology, Ljubljana

SPECIAL FEATURE

An important advantage of the door is **that it is level with the levelling floor, so the passage through the door is not obstructed for any means of transport.**

The door and the frame are manufactured from a solid steel construction. The door can also be manufactured from stainless steel.

DOOR DIMENSIONS

| | |
|-------------------------|-------------|
| Minimum dimensions (mm) | 1100 x 2000 |
| Maximum dimensions (mm) | 1900 x 2500 |

PROTECTION

The doors are double powder-coated, which ensures a total coating of 120 microns.

The colour can be selected from the RAL colour chart.

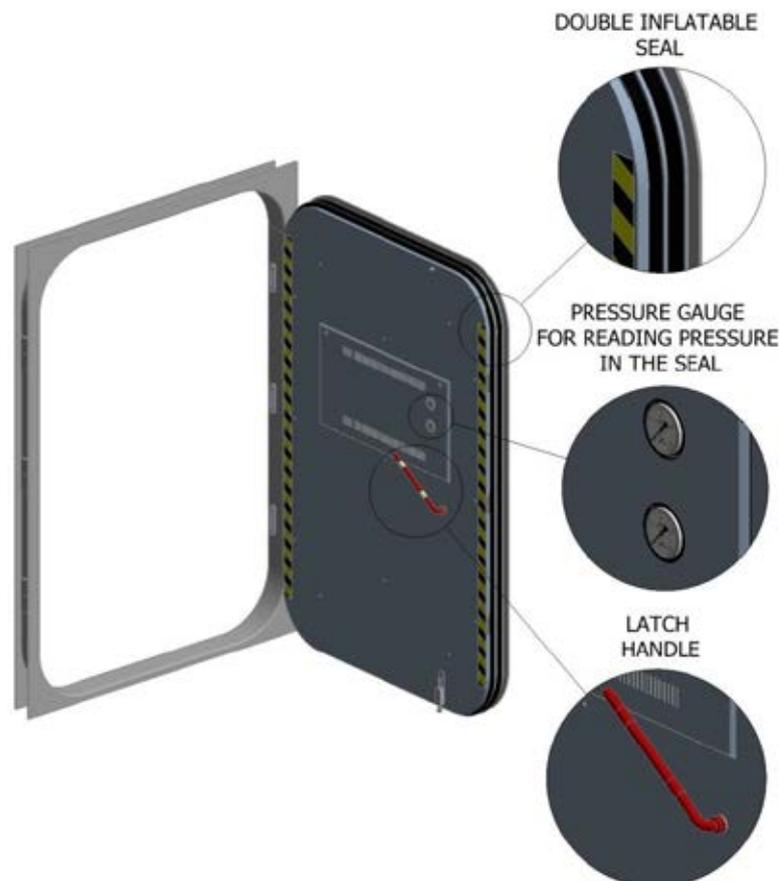


The doors have class C3 corrosion protection in accordance with DIN55633 and EN ISO 12944 standards.

STANDARD EQUIPMENT OF PNEUMATIC KD FLOOD DOORS:

- **silicone seal** in the form of an inflatable tube;
- **pneumatic mechanism** operating at a voltage of 12 V;
- **bolting lever** which triggers the operation of the pneumatic mechanism;
- **batteries** which enable the operation of the door for up to three weeks in the event of a power failure.

The doors are closed and opened manually. When the doors are closed with the bolting lever, the pneumatic mechanism fitted in the leaf of the door is triggered. This mechanism inflates the seal which fills the gap between the frame and the leaf of the door. The working pressure in the seal must be 1–2 bar. A pneumatic KD flood door is fitted with two inflatable silicone seals (double sealing) which are regulated separately. This ensures the reliability of the product.



As a result of the pneumatic mechanism, the closing and opening of the door is simple and effortless. When a risk of flooding has been predicted, the doors must be closed manually. **The doors can also be upgraded with a powered automatic closing mechanism and a sensor for measuring the water level. In the case of a raised water level, the doors close automatically.**



Faculty of Chemistry and Chemical Technology, Ljubljana

SPECIAL WARNINGS

In order to ensure proper functioning, the doors must be serviced every two years by a person who has been authorised by the door manufacturer Vrata Deržič, s. p.

Otherwise the manufacturer, Vrata Deržič, s. p., cannot guarantee the proper functioning of the doors and shall not be responsible for potential consequences.

Unauthorised persons are not permitted to interfere with the doors.

All dimensions in the catalog are in millimeters (mm).

We reserve the right to make changes.

Any copying and publishing of the content without the consent of the company Deržič Vrata, s. p., is prohibited and contrary to the Intellectual Property Act.

