



ZAPLETA
FIRE, SPECIAL DOORS AND GATES

KOVO a.s.

STRATEGIC PRODUCTS FOR THE PROTECTION
OF SPECIAL STRUCTURES AND PEOPLE

BASIC INFORMATION

Commercial name

Zapletal - Kovo a.s. (Joint - Stock Co.)
Elišky Přemyslovny 8
625 00 Brno
CZECH REPUBLIC
www.zapletal-kovo.cz



Seat of Zapletal - Kovo a.s.

Company's subject of business:

Research, development and production of steel and stainless fire closures, and of special doors and gates: pressure- and explosion-resistant, radiation-resistant, smoke-tight, gas-tight, and heat-insulating doors and gates; revolving, folding, horizontally sliding, and vertically sliding doors and gates; doors and gates with electronically controlled drives and equipped with a standby power unit.

Use of the products:

You can find the Zapletal - Kovo products for example in the construction and operation of the following:

- Production buildings and structures
- Department stores
- Hospitals and clinics
- Road tunnels
- Metro stations and accessories
- Construction and operation of petrochemical plants and refineries

- Construction of strategic and army buildings and structures, for example radiation and chemical protection bunkers
- Construction and operation of nuclear power plants
- Construction and operation of underground garages

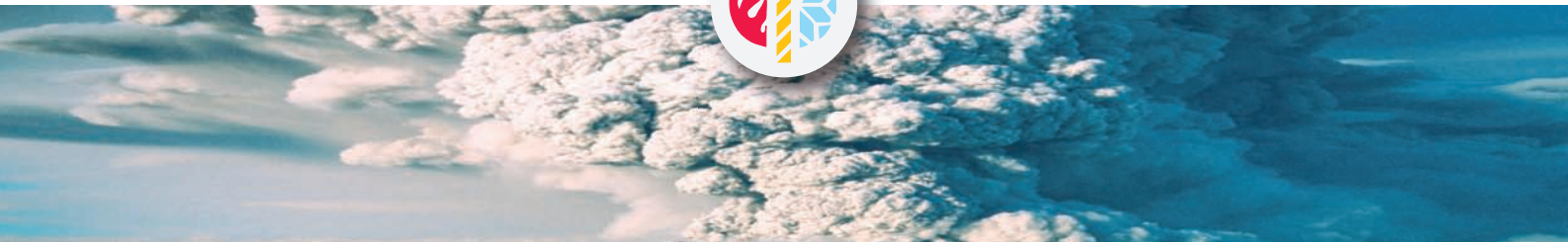
In all areas of their products use, Zapletal - Kovo a.s. is capable of supplying complex deliveries: initial advisory service, production, assembly, and after-sale service.

Zapletal - Kovo is interested in any projects relating to the construction of the above buildings and structures. The Company is ready to prepare upon request its own offers and solutions for specific buildings and structures.

Zapletal - Kovo a.s. is a contractor of the project co-financed by the European Regional Development Fund and by the Ministry of Industry and Trade of the Czech Republic. The output of this project is a patent for the invention "Door and Gate Closure and its Assembly" no. 299 235.

STRATEGIC PRODUCTS FOR THE PROTECTION OF SPECIAL STRUCTURES AND PEOPLE

The majority of special products were created in the framework of applied development based on CLIENTS' requirements. The products listed then became part of the Company's production programme.



Central control room - Chemopetrol Litvinov



1 Openable pressure single leaf and double leaf closures

They withstand a pressure wave of the explosion:

Maximum size:

Single leaf closures
Double leaf closures

60 kPa
30 kPa

1100 x 2300
2400 x 3000

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Gas-tight single leaf and double leaf closures



Mrázovka Tunnel



The closures use special sealing which prevents any types of gas from leaking into the protected space. As multifunctional products, they are manufactured also with 90-minute fire resistance.

Maximum size

- single leaf closures:

Door 1100 x 2300

Gate 3000 x 2400

Maximum size

- double leaf closures with central post: 6000 x 2400



Libouchec and Panenská Tunnels

**The most frequent
uses of pressure and
gas-tight closures**

- Chemical industry
ČESKÁ RAFINÉRSKÁ Litvínov
SLOVNAFT Bratislava
SPOLANA NERATOVICE
- Road constructions - tunnels
MRÁZOVKA Praha
BRANISKO Slovakia
LIBOUCHEC
PANENSKÁ
KOMOŘANY
PISÁRKY BRNO

- Industrial buildings and structures
TPCA KOŠICE Car Factory
PHILIPS HRANICE
BCB PLZEŇ
KIMBERLY CLARK
STROJÍŘNY POLIČKA Machine Works
- Personal protection buildings
and structures:
BUSSINES CENTER Bratislava
- Hospitals
University Hospital Hradec Králové
- Other
Winter Stadium Roudnice nad Labem
- Military structures
- Biogas stations



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Revolving and sliding, ionizing radiation shielding closures



University Hospital Hradec Králové

Depending on the thickness of the shielding material, the closure is capable of preventing the penetration even of hard gamma radiation. The closure is also equipped with a special neutrostop material which absorbs free neutrons during the reaction. Opening and closing is motor-operated with programmable control electronics and with a standby power unit. The weight of the closure depends on its size and on the thickness of the shielding material - lead, which prevents the penetration of the radiation. Because of the heavy weight of the closure preventing the penetration of hard radiation (closure sized 2000 x 2000 mm weighs approximately 2500 kg), it is motor-controlled.

Revolving closures are used for internal values of radiation with a Pb shielding film of about 5 mm.

Use:

- Hospitals - mainly oncology facilities
Masaryk Memorial Cancer Institute
Brno - Žlutý Kopec
University Hospital Hradec Králové
THOMAYER Hospital Praha
- Industry - operations using radioisotopes
BARUM Otrokovice
- Research institutes - working with radioisotopes
VUT Brno (Brno University of Technology)
- Nuclear power plants
- Military buildings and structures



REFERENCE CONSTRUCTIONS - HOSPITALS

- 1) MASARYK MEMORIAL CANCER INSTITUTE BRNO - ŽLUTÝ KOPEC
- 2) UNIVERSITY HOSPITAL HRADEC KRÁLOVÉ
- 3) UNIVERSITY HOSPITAL RÁLOVSKÉ VINOHRADY
- 4) THOMAYER HOSPITAL
- 5) UNIVERSITY HOSPITAL OSTRAVA
- 6) HOSPITAL SVITAVY
- 7) HOSPITAL MLADÁ BOLESLAV
- 8) ST. ANNE'S UNIVERSITY HOSPITAL BRNO
- 9) UNIVERSITY HOSPITAL BRNO - BOHUNICE
- 10) UNIVERSITY HOSPITAL OLOMOUC
- 11) UNIVERSITY HOSPITAL PRAHA KARLOVO NÁMĚSTÍ
- 12) UNIVERSITY HOSPITAL TRUTNOV
- 13) UNIVERSITY HOSPITAL KYJOV
- 14) HOSPITAL NOVÉ MĚSTO
- 15) HOSPITAL TŘINEC - PODLEŠÍ
- 16) HOSPITAL CHOMUTOV
- 17) HOSPITAL ALTAS ZLÍN
- 18) HOSPITAL VSETÍN
- 19) HOSPITAL BUCHTŮV KOPEC VYSOČINA
- 20) HOSPITAL PELHŘIMOV

CURRENTLY UNDER CONSTRUCTION

- 1) UNIVERSITY HOSPITAL PLZEŇ
- 2) HOSPITAL Kladno



Ostrovačice D1 Motorway

Outdoor design with an automatic mechanical self-closing system. In the event of an accident on the road fitted with a sound-insulating wall, the closure serves for an emergency escape of persons from endangered sections; by its automatic closing system the closure ensures sound insulation of the entire wall.

Use:

- Road constructions - outdoor acoustic sound-insulating walls of all types
Motorways D1,
HORNÍ POČERNICE,
MNĚŠÍN, JIHLAVA, MĚŘÍN,
OSTROVAČICE, VYŠKOV, VYŠKOV
MOŘICE, D11 HORNÍ POČERNICE



IDSC Mladá Vožice - Foundry

Horizontal fire resistant folding closures

- serve for closing technology holes between floors to prevent possible fire propagation. As a multifunctional product, which is fire resistant and sound insulating, it also prevents noise propagation (machine halls).
- are also used as ventilation covers on transport routes; their bearing capacity can be increased for them to carry a vehicle weight. They can have a special surface finish.

Horizontal ventilation and escape closures

- serve for closing escape routes for example from underground garages; they open automatically if an emergency situation is reported. All types of covers are controlled by hydraulic drives with emergency power supply units and with warning lights; all covers are connected with a protection system.



Palladium Palace - the biggest shopping centre in Central Europe

Ventilation cover 2500 x 3000 mm fitted into the road of Náměstí Republiky Square in Prague as an exhaust vent for burned gases. It opens automatically.

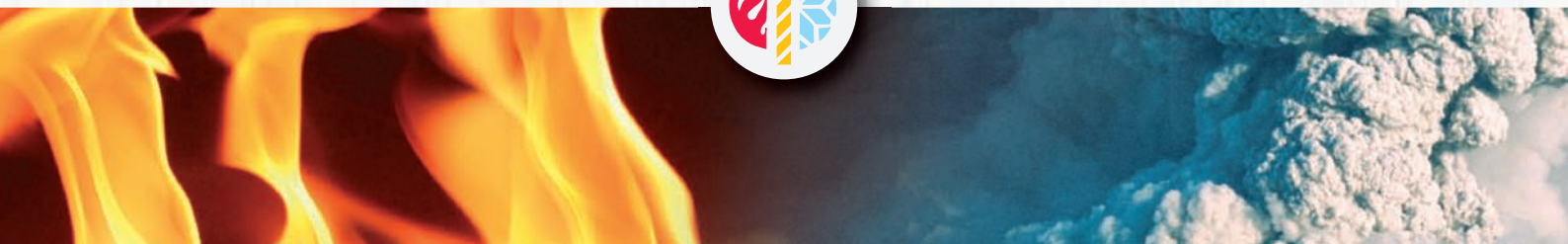




Escape cover 2500 x 5000 mm for an emergency escape of people in the case of fire; it is movable and fitted into the road of Náměstí Republiky Square in Prague as an exit of an escape underground corridor from three-floor underground garages. It opens automatically.

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**Folding,
multifunctional
closures**



**Folding double
leaf closures with
a through door and
viewing windows,
motor-controlled
- multifunctional**

- Dust tight
- Sound-insulating
- Fire resistant



Sand-blasting tunnel at SIEMENS - Kolejová vozidla Praha

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Sliding and telescopic
closures, fire heat
-insulating closures



Brno-Tuřany Airport

A closure designed as a double leaf, four part
closure with 12 fitted fire windows, motor-controlled,
with a safety protection system,





as a hangar door sized 15000 x 5500 mm
for the Alfa Helikopter air rescue service.

Designed according to the invention made during the
implementation of tasks arising from the European Funds project.



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