

# barduva



**BIFOLD BARDUVA HANGAR DOORS**



Each of the BIFOLD BARDUVA doors are designed to suit a specific project. We provide all the necessary technical material for architects, constructors. Consultations, drawings, product specifications.



**BARDUVA.** APPRECIATE THE QUALITY!

## **BIFOLD BARDUVA hangar doors – the best solution.**

Quality is our highest priority. We want our customers to know that BARDUVA is the company providing the high quality BIFOLD BARDUVA hangar doors at very reasonable prices in the big doors market.

If you need doors for airplane hangar, agricultural building, port or any other commercial building, be assured that BARDUVA will offer you the best solution and supply you with necessary drawings in order to ensure that the hangar doors BIFOLD BARDUVA would fit your new or renovated building.

## **Why to choose BIFOLD BARDUVA ?**

Security, tightness, logistics – these are just a few reasons why you should think about choosing BIFOLD BARDUVA for your building. Bifold barduva will justify all your expectations starting with door dimensions, design, reliability, security and of course economy. You won't find a better solution other than BIFOLD BARDUVA.

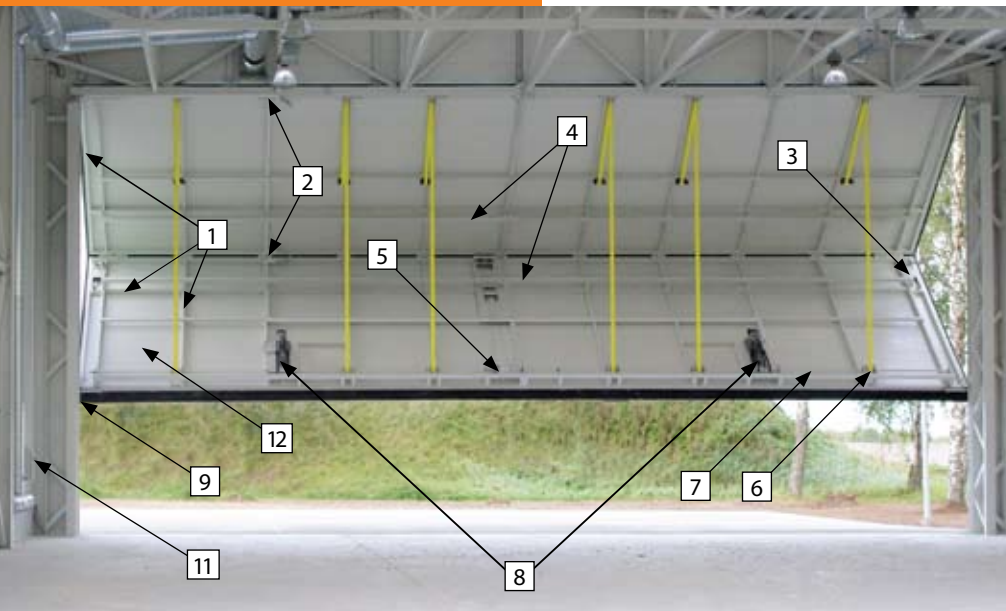
This is the best choice not only for the construction of new buildings, but also the best way to upgrade old buildings and to improve their efficiency.

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### **Some more reasons:**

- Reliable and durable (for example: resistant to break-in, this is especially important for unguarded sites);
- Unique design;
- Only two sections of metal structures;
- Loose no headroom;
- Wide clear opening;
- Silent, lightweight and fast opening system through the lifting belts;
- Automatic opening;
- Resistance to severe weather conditions (strong wind, snow, rain);
- Suitable for any type and size of building;
- Long term and safe operation;
- Easy maintenance;
- Possibility to install windows, doors.





## Basic structural and functional components of the hangar doors:

- Leaf frame (1);
- Hinges (2);
- Side door locks (3);
- Truss (4);
- Bearing mounting plates with bearing placing section (5);
- Lifting belts and rolling drums (6);
- Shaft (7);
- Electromechanical transmission (8);
- Supporting bearing (9);
- The control unit (10);
- On-off switch (11);
- The safety and warning devices;
- Panel – heat insulation (12).

## BIFOLD BARDUVA hangar doors description

- **CONSTRUCTION:** Bending, two panel gate, frame thickness - 100 mm, suspension components – polyester belts.
- **GATE MATERIAL:** Frame - Steel tube 100 x 100 x 3 mm. (Painted RAL 9002). Interior girder: Welded steel tubes - 80 x 80 x 3 mm. (Painted RAL 9002).
- **DOOR FINISH:** According to customer preferences: insulation panels, aluminum profiles with polycarbonate glass, tin by RAL, etc..
- **LIFTING BELTS:** Belts: width – 75 mm, thickness – 3 mm.
- **TRUSS:** Steel tube - 80 x 80 x 3 mm (painted).
- **SPEED:** 0,08 m/s (up to 2 minutes).
- **WIND LOAD:** 0,7 kN/m<sup>2</sup>.
- **SIDE LOCK:** Mechanical, locks the fully closed door and they do not move, even in the high winds.
- **CONTROL UNIT:** Supplied Voltage: for motors - 380V, the control unit - 220V.
- **CONTROLS:** 3 buttons on the control unit (open-stop-close).  
**Gate open:** keep pressed the on-off button which indicates the direction up on the control unit.  
**Gate close:** keep pressed the on-off button which indicates the direction down on the control unit.
- **OPTIONAL CONTROL:** you can order additional feature – door moves with a push of a button and you do not need to keep the button pressed. With this feature, photocell sensors must be installed. Sensors are installed on side guide rails, near the floor, to stop the doors in case of any obstacle. Manual emergency controls.
- **SECURITY DEVICES:** Built-in brake on the engine.



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## Door operation principle

Folding metal door structure is raised by a special polyester lifting belts (each one's breaking point is 10,000 kg). Lifting belts at the bottom of the door is wrapped on the drum in several places evenly over the entire frame of the gate, that gates would open evenly and easy. Belts never entangles, nor makes noise, nor rust (as opposed to of steel cables). Door lifting belts are perhaps the most important advantage, because you don't need pulleys – less parts, less problems, less maintenance! Lifting belts are made of polyester material, so it is durable and reliable.

### ■ Door opening

While holding the door on-off switch, which is located on the control unit, electromechanical drives turns shaft and at the same time belts attached to drums begins to raise the gates. Side locks, mounted on a door frame on both sides,



unbraces the gates and they start to rise. Gate rises to the top with the help of lifting straps and the upper end rigidly attached to the upper lintel. When doors reaches the predetermined height of the opening disconnectors on the electromechanical drives stops them.  
Lifting speed – 0,08 m/s

### ■ Door closure

While holding the door on-off switch, which is located on the control unit, electromechanical drive loosens shaft, cables become loose and lifting belts allows the doors to move slowly

downward. After landing, side locks presses and fixates doors to the building , thereby ensuring the security and stability of the gate.

Whole door perimeter is sealed with rubber. Because of the dense, doubled rubber seal with the cloth inside, doors becomes resistant to any weather conditions!

The chain drive motor located in the aid, in case of power failure or breakdown of the door electromechanical actuators can lift or lower doors manually. For such situations there is dedicated emergency release lever and emergency lifting chain.

## Doors electronic security systems

■ **The upper door height switch** switches off electric current when ascending gates reaches the highest point of the opening. This switch prevents the doors from opening passage higher than recommended height and when the gate reaches the highest point of the opening, it automatically stops.

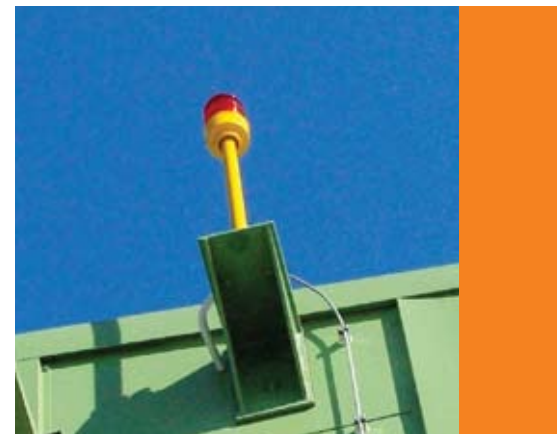
■ **Side locks**, does not let the door to move and protects against high wind loads while they are in a locked position.

■ **3 buttons control system** (up/down/stop). Two buttons located on control unit allows the gate to move up or down by pressing and holding them until gate rises or descend. The doors can be stopped in any position by releasing the up/down switch. Holding to see up/down switch automatically stops the doors when they

are fully ascended or descended. STOP button, performs doors stopping function, when optional controls are chosen.

■ **Photo electric cell sensor** is mounted near the floor to stop the doors in the event of any obstacle. In case of an obstacle at the range of photo electric sensor (object, human, vehicle etc.) doors won't descend (optional function).

■ **Warning light and sound signals** are needed to alert people at the door operation area. When the door is activated, a warning light begins to rotate and an audible alarm sounds. This security system is particularly recommended for gates that will be equipped with a radio remote control and other remote controls (optional function).





## Door installation

### ■ Simple installation

Qualified BARDUVA professionals with many years of door installation experience, will install doors quickly and flawlessly, will provide all necessary technical information and will ensure reliable door operation and post-warranty services.

### ■ Option for clients to install the doors themselves

BARDUVA will provide you with detailed step by step instructions, how to install BIFOLD BARDUVA doors.

Many customers want to install the doors themselves – this reduces costs. Be sure that doors that reach you, will be fully complete and our technical office staff will be happy to answer all the questions.

Also you can invite our skilled technical staff, that can train your staff, how to install the door or perform testing procedures on the gates installed by customer – to check whether or not the doors are installed correctly and running smoothly.

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## Service

### ■ Product warranty – 24 month.

Our company's basic strategy is the quality, safety, reliability and prompt warranty and post-warranty service.



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## ABOUT BARDUVA COMPANY

**BARDUVA was founded in 1996**, the company's main activity is the manufacture of lifting doors. Continuous improvement, production capacity expansions, modern technology and skilled workers efforts provides an opportunity to introduce our product – hangar door BIFOLD BARDUVA.

**This is modern, safe, reliable and economically attractive hangar doors**, designed using modern technologies, long-term manufacturing and installation experience, using only quality materials. While working on complex construction projects, our skilled engineers works in close cooperation with our and customers company employees.

**Our competent experts are always ready** to advise construction project managers, foremen, customers, how to avoid mistakes during the construction and operation of the doors. We are always

## The main levers of our business – quality, professionalism and integrity.

ready to answer your questions and provide necessary drawings to ensure that hangar doors BIFOLD BARDUVA would suit your new or renovated building.

**We pursue customer satisfaction** and long-term partnership while ensuring product reliability and quality at each design, technology development, production and service chain. We care about our reputation.

**The main levers of our business - quality, integrity and professionalism.**

We try to do so, that company's customers, partners and employees would feel the goodwill and projects would meet time and quality requirements.

**BARDUVA efficiency of activity leads to a responsible and professional team**, which is not afraid to take greater responsibilities in the implementation

of interesting and challenging projects, which requires constant look for new ideas and new solutions.

**While living today, we continuously thinking about tomorrow**, because we know that the success belongs to those who best predicts the needs of future consumers.

**We love challenges.** We are ready to fulfill customer orders more quickly than others and to carry out such orders, the other can not.

**Periodic training of personnel**, equipment and tools monitoring, verification and other procedures must ensure product compliance with the requirements of the EU products.



### CONTACTS:

Maybe you want to know the price, or maybe to get additional information? Please contact and we would be happy to answer all your questions.

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We also invite you to visit our factory, see our products, working capacity and just get acquainted:

**Liepkalnio str. 61, LT 02120, Vilnius Lithuania**

Do not forget to look out for our other products!

**[www.hangardoor.eu](http://www.hangardoor.eu)**

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