



OPERATING MANUAL

English

INDUSTRIAL SECTIONAL DOORS

Series ProPlus and ProTrend

2015

OPERATING MANUAL

INDUSTRIAL SECTIONAL DOORS SERIES PROPLUS AND PROTREND

Dear customer,

We would like to thank you for purchasing our product and hope that its quality will confirm that you have made the right choice.

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Because of constant improvement to the sectional door's design the Manufacturer reserves the right to make changes to this document without giving preliminary notice to its clients.

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1. PRODUCT DESCRIPTION

1.1 PRODUCT FUNCTION AND SERVICE CONDITIONS

This Operating manual applies to ProPlus and ProTrend sectional doors designed to be installed in industrial, public and office buildings in order to prevent the unauthorised access into the premises and to ensure good thermal and sound insulation.

The doors are not designed to be installed in explosive and fire-hazardous buildings, or to act as fire barriers closing off openings.

The climate type of doors is U1 according to GOST 15150. The following temperatures correspond to this climate type:

- upper operating temperature +40 °C;
- lower operating temperature -45 °C;
- upper limit operating temperature +45 °C;
- lower limit operating temperature -50 °C.

Notes.

1. The operating temperatures are temperatures needed to ensure the maintenance of required properties and economically expedient service life of the product.
2. The limit operating temperatures are acceptable temperatures (for limited exposure and not for more than 6 hours, and for lower temperatures less than 12 hours) during door operation. If the doors are used in limit operating temperatures, they must:
 - keep functionality, but will not correspond obligatorily to nominal characteristics;
 - renew all nominal characteristics after the temperatures turn to normal.

The doors are manufactured with manual or automatic control systems.

The electric motors are designed to be plugged into electric networks with a frequency of 50 Hz and nominal voltage of 230V or 400V.

The usage of electric motors is possible while the ambient temperatures are from -20 °C up to + 50 °C.

The doors are installed behind the opening inside the premises on a substrate such as concrete, brickwork, metalwork or a combination of these materials.

1.2 MOUNTING TYPES

Depending on the characteristics of the premises where the doors are installed, the tracks and springs can be manufactured in different mounting types. Different mounting types are presented in the figs. 1-10.

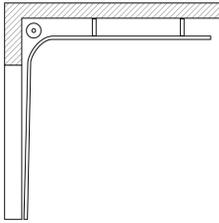


Fig.1. Standard mounting

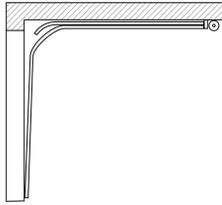


Fig.2. Low mounting

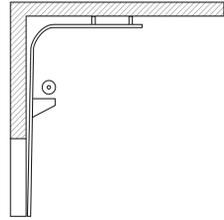


Fig.3. High mounting with bottom shaft positioning

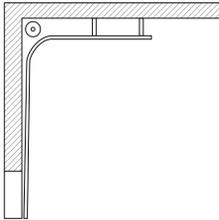


Fig.4. High mounting with top shaft positioning

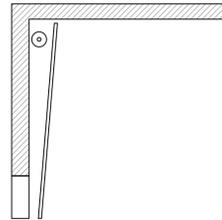


Fig.5. Vertical mounting with top shaft positioning

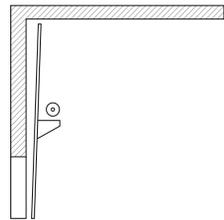


Fig.6. Vertical mounting with bottom shaft positioning

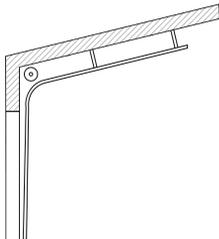


Fig.7. Inclined mounting

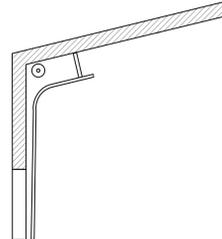


Fig.8. Inclined high mounting with top shaft positioning

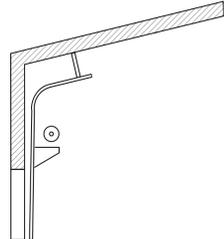


Fig.9. Inclined high mounting with bottom shaft positioning

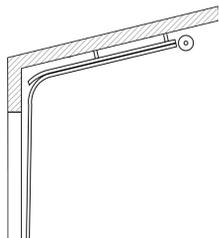


Fig.10. Inclined low mounting

1.3 DOOR DESIGN

Doors consist of a bearing structure, door leaf, torsion shaft and springs, control elements. The plan of a standard mounting door is shown in Fig.11.

The door bearing structure is an assembly of vertical angle bars with profile tracks and horizontal profile tracks.

The door leaf is made from sections, connected with side roller and intermediate hinges. The sections are made of steel two-wall sandwich-panels with polyurethane foam filling the inner space or aluminium frames with infill panels.

The door leaf movement is performed along the tracks on adjustable rollers made from wear-resistant plastic fixed in roller supports of the side hinges.

The door leaf is hung on two steel cables fixed to bottom brackets ensuring the anti-dropping protection of the cable. The cables are wound on drums mounted on the torsion shaft.

Effort produced by the springs balances the weight of the door leaf and keeps cables constantly tight.

Note: If it's not possible to produce the doors with a one shaft balancing system, the doors can be supplied with a double shaft balancing system. The double shaft balancing system includes two shaft blocks connected by two chain gears. Each shaft block includes two shafts with an adjustable coupler, assembled springs with caps, brackets with spring break device.

Special kit of parts for sectional doors installed in premises with high humidity, increases the corrosion resistance of the product, but does not exclude rust stains.

Opening/closing of the door leaf is performed either manually or with the help of an electric motor.

Manual control can be performed with the help of handles fixed on the door leaf, by using a rope or a block with a rope (depending on the set supplied as stated in the contract).

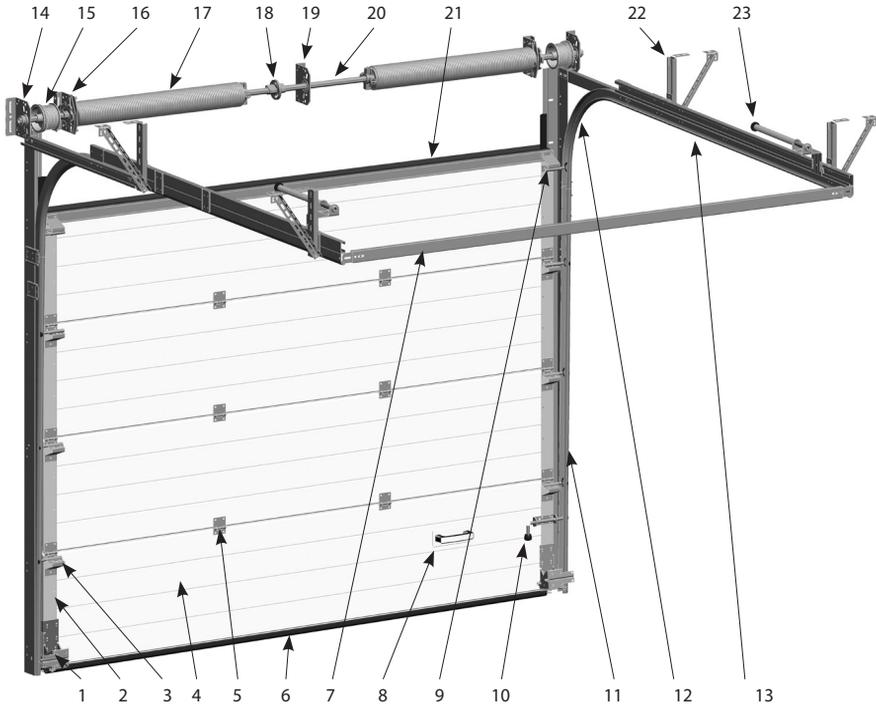
The following safety elements are used in the door construction:

- bottom brackets with cable tear protection (pos.1 fig.11);
- spring break devices (pos.16 fig.11), which are activated when a spring is broken.

Doors with an electric drive can be equipped with the following protection and automation elements:

- micro switches, which switch off the electric motor in the case of a broken spring;
- micro switches, which switch off the electric motor in the case of a torn cable;
- a sensor, for blocking the door's leaf in the case of a wicket door that is not fully closed.

Control systems for electric motor models in industrial doors provide protection for the door leaf bottom edge in case, in the process of closing, it touches any obstacle. This removes the need to install additional sensors. In this case the electric motor changes of its direction of movement and reverses. In the other types of electric motors we use optical sensors activated at the moment when the door leaf touches an obstacle. The sensors are installed in the bottom seal and by its deformation during touching an obstacle this gives a signal for the electric motor control system to stop. After the stop the motor lifts the door leaf a small amount and stops again. If no sensor is detected or a fault in sensor operation is found the command for the door to close is only possible in mode «presence of operator», i.e. by holding the corresponding button on the control panel pressed. For door leaf opening there is no need to hold the corresponding button pressed. The door locking is done by a spring bar and cross bar lock. The cross bar lock allows locking of the doors both from inside and outside. The locking by a spring bar can be done only from the inside of the premises.



1	Bottom roller bracket
2	Side cap
3	Side roller hinge
4	Door panel
5	Intermediate hinge
6	Bottom end profile with seal
7	Spacer bar
8	Handle
9	Top roller bracket
10	Locking bar
11	Angle bar with vertical track profile and seal
12	Radius profile

13	Horizontal track profile
14	Side bracket
15	Cable drum
16	Bracket with safety ratchet jaw clutch
17	Spring with cap
18	Adjustable coupler
19	Intermediate bracket
20	Shaft
21	Top end profile with seal
22	Telescopic adjustable hanger
23	Damping device

Fig. 11. Industrial doors. Standard mounting

2. PRODUCT OPERATION

2.1 OPERATION METHOD FOR DOORS WITH MANUAL CONTROL

a) opening from inside:

- if there is a cross bar for opening the doors from inside you should open the bar and fix it in the opening position.
- If there is a lock for opening the doors from inside you should unlock it by pressing on the handle and turning it in the required direction.
- lift the door until it stops in its upper position, using the rope, chain hoist or handle fixed to the inner side of the door leaf (depending on the door components).

b) opening from outside:

- turning the key opens the lock (if there is one);
- lift the door leaf using the handle.

c) closing from inside:

- pull down the door leaf using the handle, rope or chain hoist (depending on the door components);
- close the doors with the cross bar or lock.

d) closing from outside:

- pull down the door leaf using the handle;
- turning the key closes the lock (if there is one)

2.2 OPERATION METHOD FOR DOORS WITH AN ELECTRIC MOTOR

When the doors are equipped with an electric motor, remote control devices, electric key locks and other control devices, it is necessary to refer to and use the operating manuals for the electric drive and any additional devices.

Attention! If the electric motor is switched on when the doors are retained closed by the key lock or by the locking bar it can cause damage to the door and electric motor mechanisms.

3. SAFETY REQUIREMENTS

The elements used in sectional door construction provide complete safety during use of the product, if all the safety requirements are followed.

While operating sectional doors it is necessary to conduct visual control of the door leaf during the open-close process to prevent people and unwanted objects entering into or obstructing the working area.

During sectional doors operation **it is prohibited:**

- to hinder the door leaf movement (open-close);
- to be in the area of its movement during door leaf closing;
- to lift the door curtain when a wicket is open. in the case of doors supplied with an electric motor – to operate them when the sensor for wicket positioning is switched off;
- in case of doors that are fitted with an electric motor — to open the door leaf manually, without disengaging the motor in advance;

- to lift the doors by an electric motor when a cross bar is locked and/or a spring bar is closed;
- to turn off the closer on the wicket;
- to use the doors when panels and components are dirty, which can lead doors to operating badly and possibly failing;
- to give the remote control to children;
- to use sectional doors when obvious damage to pull ropes, springs, brackets and other elements of construction, electric power cables and control devices is evident;
- to use the doors when one or more component parts are out of order;
- to repair the doors yourself or using unqualified persons.

It is only safe to enter and exit after the doors have stopped in the top edge position. At the same time you have to be sure that there is no chance that a vehicle can touch the lower edge of the door leaf or other construction elements of the door.

Attention! It is prohibited to change the construction of the doors independently, including installation of additional elements to the construction. It can lead to damage or fast deterioration of the construction elements.

If and when violations and faults in your sectional door operation become evident, in particular, in the case of any abnormal noise, smell or something similar, giving reason for concern, immediately stop using the doors and contact the service department of the company, which performed installation of the doors or another special service agency (company).

4. PRODUCT CARE

In order to maintain the product in constant technically correct order and readiness to operate, it is necessary to keep all the door's elements clean. Use rags and non-aggressive cleaning liquids for cleaning.

When aggressive chemicals get on to the door's surface, clean them away using a suitable non-aggressive liquid.

Condensation and misting on the inner surfaces of glazing is acceptable.

For stable and durable sectional door operation it is necessary to meet the following requirements:

- it is permitted to use only correctly adjusted doors;
- there should be no hindrance and obstacles within the door's walkway;
- the rollers and hinges should be periodically lubricated using a consistent grease (Lithol24 or similar);

Attention! It is prohibited to lubricate the tracks using consistent greases.

- to provide smooth running of the door leaf during manual operation. When using an electric motor do not accelerate or slow down the running of the door leaf;
- do not leave the doors slightly open or half-open for long periods;
- before using the doors during winter or after them being closed for long periods, it is necessary to clean away snow, ice or dirt before operating;

- to prevent sagging of the bottom end profile it is recommended not to step on or apply downward pressure in some other way to the threshold of the wicket.

Recommendations for door operation in premises with high humidity (for example, in automatic car washes or railway carriage washes)

After door installation it's recommended:

- to install a safety curtain* at 600-700 mm distance from the door leaf;
- if a torsion shaft is positioned behind the horizontal tracks and is situated above the car washing area, it should be covered with a protective safety casing;
- to decrease the amount of cleaning liquid evaporation on the door construction elements it is recommended to install an exhaust system*;
- if cleaning liquids get on to the door construction elements, they should be cleaned using clean water immediately after the car-wash is used and the door leaf should be wiped with dry rags;
- brackets, roller spindles and springs should be lubricated using a consistent grease (Lithol24 or similar) at least once a month (we recommend - once a week).

Follow the above mentioned recommendations will increase the anti-corrosion properties of the product, but it does not prevent corrosion traces.

5. SERVICE MAINTENANCE

Sectional doors are a device consisting of movable parts and mechanisms. For stable operation and safe usage the doors should be periodically checked and examined according to the routine maintenance list.

Sectional doors service maintenance should be conducted only by specialists from a special service agency (company) or specialists from the company, which performed their installation. While providing service maintenance it is necessary to use original parts/units of the Manufacturer. Industrial doors should be checked at least once a year. The first service maintenance has to be done within 3 months of door installation.

Door service maintenance in special conditions of use should be done at least once in every 3 months.

Special conditions of use cover the following examples:

- automatic car washes and railway carriage washes;
- manufacturing and warehouse premises, garages and parking lots with intense door use (more than 30 cycles per day);
- severe climatic conditions (high wind load, areas with continuous (over 6 months) period of negative temperatures).

It is also recommended to conduct door service maintenance after repairs (painting and other construction works) inside the premises, where the doors are installed.

* not delivered in the door kit.

6. WARRANTY

6.1 WARRANTY PERIOD

We guarantee to the purchaser of Guenther/ALUTECH sectional doors the safety of the door during its operation within the whole period of durability if all recommendations and requirements of the Producer stated in the technological documents are satisfied.

In this regard the Producer guarantees:

- within 10 (ten) years of the installation date* (but not more than 10,5 years from the date of door fabrication) – no perforating corrosion of sandwich-panels, steel profiles used in track and hanger systems, door elements made of stainless steel and elements of torsion shafts (apart from springs because the period of their durability depends on the quantity of operation cycles of the door) will occur;
- within 5 (five) years of the installation date* (but not more than 5,5 years from the date of door fabrication) – no perforating corrosion of final profiles and other elements made of galvanised steel will occur;
- within 2 (two) years of the installation date* (but not more than 2,5 years from the date of door fabrication) – the quality of the door as a one-piece construction and its separate elements (apart from the doors having operated in corrosive environment).

* According to the mark in the passport.

If the door is supplied with an electric drive the electric drive warranty will be given for the whole warranty period under the warranty liabilities provided by the Producer of electric drives.

6.2 MANUFACTURER'S WARRANTY

During a warranty period the Manufacturer undertakes to eliminate all the hidden manufacturing faults revealed in the products. Under the «hidden manufacturing faults» it is understood: the faults initiated by material defects or breach of technological process of parts manufacturing (components). The detection of the fault must be confirmed, without fail, in a corresponding bilateral Report (claim, fault, or other), which is issued in the obligatory presence of a representative from a special service agency (company) or organisation, which performed product installation.

In the case of detecting hidden manufacturing faults in the product before the end of warranty period, confirmed by the corresponding bilateral Report, and if manufacturer does not prove that this fault appeared after handing over the product to the Customer because of breach of regulations set by the present Manual or the actions of the third parties, or force-majeure, the Manufacturer is bound at his own choice:

- to change defective parts (components) free-of-charge for the parts (components) of acceptable quality;
- to repair defective parts (components) free-of-charge.

Changed parts (components) become the property of the Manufacturer. Warranty period for parts (components) installed instead of the defective ones equals the warranty period of the parts (components) changed.

6.3 TERMS OF WARRANTY AND WARRANTY MAINTENANCE

The Manufacturer's warranty is valid on condition that proper installation of the product is done by qualified personnel. Date of installation and the name of the company, that performed installation, is stated in the Product certificate. The Manufacturer is not responsible for product defects that have appeared as a result of improper installation of the product.

The warranty maintenance is done on condition that the User abides to follow all the product usage and care regulations. The Manufacturer is not responsible for product defects that appear as a result of breach of product usage regulations and norms, stated in the Operating manual.

An indispensable condition for the Manufacturer fulfilling the warranty is to conduct preventing maintenance for products in accordance with Section 5 of the Operating manual. A mark recording each preventative maintenance activity carried out should be made in the Product certificate (section «Service maintenance»).

Warranty repairs will only be performed after provision of the original Product Certificate.

The warranty does not cover:

- faults that appear because of a breach of regulations for product usage and care;
- faults resulting from natural wear with consideration for conditions and intensity of product use;
- for the parts (components), that have obvious operational wear (having operation life, stated in the Product certificate and Technical documentation of the parts (components) manufacturer);
- product damage, that is present because of the Customer's actions or another third party;
- faults and defects, caused by external effect on the product (fire, water, salt, acid, alkali and others);
- faults that which have appeared after adjustment, repair, reinstallation or alteration of the product by unqualified persons;
- faults which have appeared because of usage of component parts produced by other manufacturing companies without agreement of product Manufacturer;
- faults, caused by lack of regular technical maintenance and product checks, covered by section 5 of the Operations manual;
- faults which have appeared after the repair by a non-specialising service agency (company) or not by a company that performed installation of the product.



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