



**GARAGE
SECTIONAL DOORS**



Alutech sectional doors fully conform with all the requirements of European safety standards.



Alutech garage doors

are commonly used for private houses, garage condominiums and parking lots. The benefits of sectional doors are indisputable – convenience and ease of use, reliability, safety, good sealing of opening, excellent thermal insulation.

More comfort for owners of Alutech sectional doors is provided by various options like automatics, wicket door, decorated windows, key locks and others.

Sectional doors can be installed in almost any garage opening. The shape of an opening can be rectangular, with beveled edges or archway.

Due to the wide selection of panels and colours Alutech doors fit harmoniously into the architecture of any building.

In 2009, the tests were conducted to confirm the compliance of Alutech sectional doors with EU Directives on security products. Alutech sectional doors are fully consistent with all the requirements of European safety standards, that is confirmed by the test reports issued by European accredited laboratories.

Alutech Door Systems –

is a modern high-tech enterprise producing:

- garage and industrial sectional doors;
- sandwich panels for sectional doors;
- steel track profiles and components for sectional doors.

On-site production of all major components makes it possible to control the quality of sectional doors at all stages of production and respond quickly to market demands.

The raw materials from the best European suppliers, the most up-to-date technology and modern equipment are used for the production of sectional doors:

- modern high-performance line to produce polyurethane sandwich panels;
- high-tech automated production lines for the manufacture of steel profiles;
- modern high-frequency machines with programmed numerical control for the production of components.

Quality management system corresponds to the requirements of ISO 9001:2008 and is certified under TÜV Rheinland Intercert No.75 10070322.



CE marking:

- demonstrates compliance of product with the requirements of European safety standards;
- shows producer's input to ensure safe products manufacturing and care about consumer's health.

THE CHOICE OF ALUTECH SECTIONAL DOORS IS THE RIGHT ONE

SPACE SAVING

Sectional doors are opened vertically, sliding backwards into the garage.

This allows cars to be parked right up to both the inside and outside of the door, thus saving valuable driveway space.

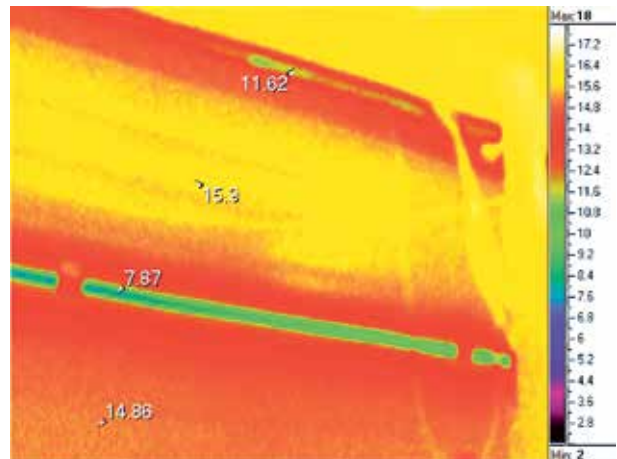


ACOUSTIC

All Alutech Sectional door panels are 45mm thick - making us a market leader. This provides for high thermal properties for the door. In between each panel is an EPDM seal that eliminates drafts between the panels and provides additional heat insulation.

Twin rubber seals are mounted in the frame around the outside of the door to protect against rain and helps reduce unnecessary heat loss.

To help demonstrate the thermal efficiency, Alutech commissioned an independent external laboratory (NISI), who carried out a number of tests.



Thermal imaging camera shooting of the internal area of Alutech door while testing in St. Petersburg. Outside temperature is -28°C.

RELIABLE PROTECTION

Alutech sectional doors provide reliable protection of premises and ensures the safety of property. High resistance of the doors to impact and wind loads is confirmed by independent tests. Alutech doors resistance to wind load is 700 Pa (A class).



Sectional doors are manufactured in panel sections, joined by hinges. They run in a vertical track which is mounted either side of the garage opening. When opening the door will run vertically and then horizontally back in to the garage opening.

Sectional garage doors are the modern choice for a garage door; by opening in this manner they have many benefits in comparison to a standard up and over type of garage door.



The coefficient of thermal transmittance (U) of Alutech doors is $0,61 \text{ W/m}^2\text{K}$, which is comparable with the brick wall of 60cm thick.



THE CHOICE OF ALUTECH SECTIONAL DOORS IS THE RIGHT ONE



COMFORT AND CONVENIENCE

Sectional garage doors can easily be opened and closed manually with little effort. As the springs are individually calculated to suit each door, the door will be well balanced, can be closed smoothly and securely locked once fully closed.

Automatic garage doors can be opened by remote control from within the comfort of your car with you being shielded from the wind and rain.

MODERN DESIGN

Sectional garage doors are designed to compliment the architecture of any building, be it modern or traditional.

Alutech offer a choice of designed and surface options, with a full colour range, to enhance the look of any home.



Comply with European
safety standards
EN 12604, EN 12453



SAFETY

Alutech Group of companies pays special attention to product safety. Alutech garage doors design completely conforms with the requirements of **European safety standards EN 12604 and EN12453**:

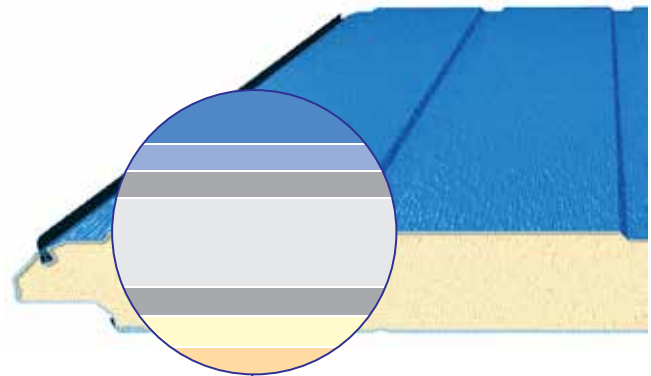
- sandwich panel design ensures protection against finger jamming;
- an integral spring break device is included to protect against the unlikely event of a spring failing;
- care has been taken in the design of the door to eliminate any danger of finger trapping or other accidents;
- design of the track profiles and rollers ensures for a smooth operation of the door;
- electrically operated, remote controlled garage doors have a built in safety system, the door will recognise any obstruction stopping and reversing the door.

ADVANTAGES OF ALUTECH SECTIONAL DOORS BASED ON THEIR PERFECT DESIGN

RELIABLE PROTECTION AND LONG-TERM PERFORMANCE

The sandwich panel is a basis for long-lasting and safe operation of sectional door. Specially designed sandwich panels are used to produce Alutech sectional doors and they have several advantages:

1. design of panel with thickness of 45 mm provides high resistance to wind and impact loads;
2. both outer and inner steel sheets of the sandwich panel are interconnected in the top and bottom of panel. This eliminates separation of the panel due to dramatic lowering of a door, and when in direct sunlight;
3. door panel is made of 0.4 mm steel sheet which ensures great strength characteristics of the door;
4. zinc coating with thickness of 16 microns secures high anti-corrosion properties of the panel;
5. front side of the panel is enameled with polyurethane coating modified by polyamide particles (PUR-PA), that is:
 - highly resistant to scratches and cuts caused by mechanical action;
 - well tolerated to temperature and humidity fluctuations;
 - has high hardness and elasticity;
 - has excellent anticorrosion properties;
 - resistant to detergents and chemicals.



| |
|--------------------------------|
| Polyurethane coating 20-25 mkm |
| Ground 20-25 mkm |
| Zinc 16 mkm |
| Steel 0.40 mm |
| Zinc 16 mkm |
| Adhesional lacquer 12 mkm |
| Foamed polyurethane |



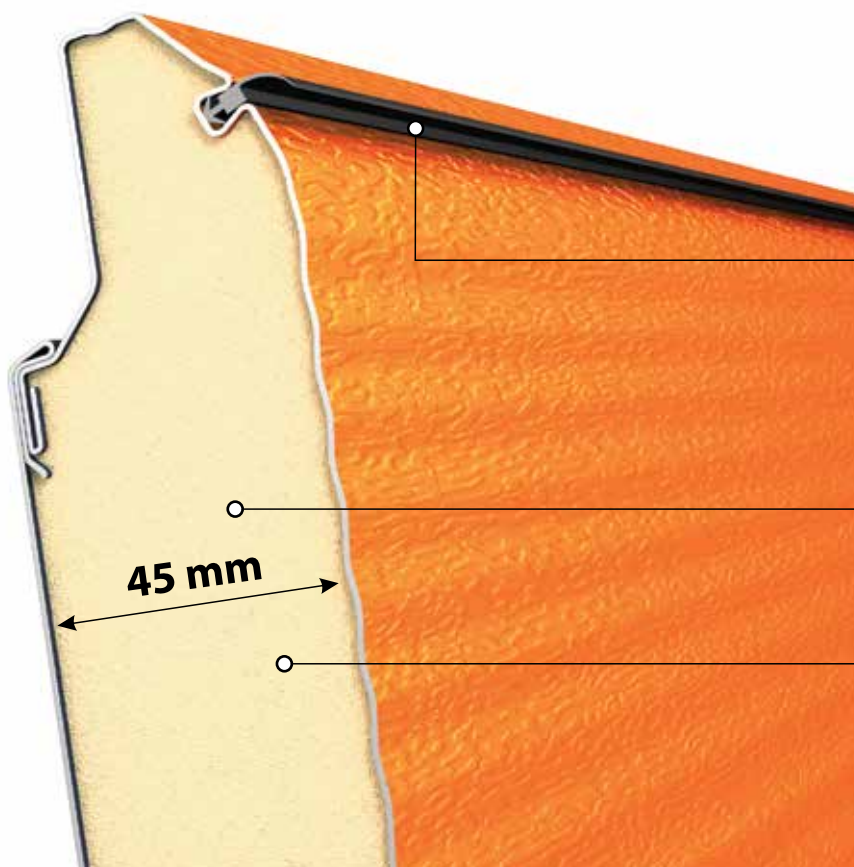
15 years of operation on seashores. Confirmed by tests.



To produce sectional doors Alutech uses the qualitative raw materials from the world's leading manufacturers. Technically mature solutions and strict adherence to all processes during the production make it possible to manufacture products with consistently high quality. Many unique designs of Alutech are protected by patents.

One of the most durable panels in Europe

45
mm



The panels are equipped with polymer EPDM-seal that preserves their high mechanical strength and elasticity at low temperatures. This seal excludes the appearance of gaps between the panels, providing a high heat and sound insulation of a door.

Sandwich panels are filled with foamed polyurethane, which has high thermal insulation properties.

The thickness of the panel is the main attribute of a sectional door to maximise its thermal efficiency. 45mm is the thickest panel available in Europe today.

DURABILITY

The corrosion resistance is particularly important for doors operated in coastal areas and cities. The tests by an independent laboratory confirmed high corrosion resistance of Alutech sectional doors. The elements of the door leaf sustained the influence of "salt fog" for 750 hours, which corresponds to approximately 15 years of operation in coastal areas with moderate salinity.

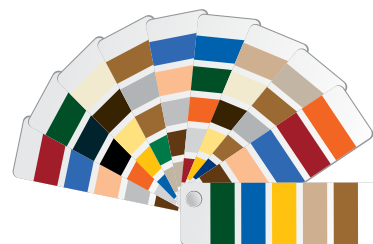
For rooms with high humidity Alutech Group of companies offers a special kit that includes:

- stainless steel cables;
- stainless steel screws;
- rollers with the axis made of stainless steel;
- galvanized tracks with a protective polymer coating

DOORS TO ANY TASTE



Wide selection of surface versions and colours



Alutech garage doors can be painted in any colour from RAL catalogue upon Client's request

Alutech garage doors can perfectly emphasize the architecture of a modern hi-tech house, as well as a classic traditional one.

Due to various surface versions and colours of the panels, sectional doors perfectly match any finishing building material.

SURFACE VERSIONS



Microwave

The microwave finish is a durable style, designed to be used in harsh environments.

Exterior side of the microwave panel has a woodgrain embossment.



Georgian panel

Georgian paneled doors are specifically designed to suit the more traditional style of house.

Exterior side of cassette panel is finished in woodgrain.



Ribbed

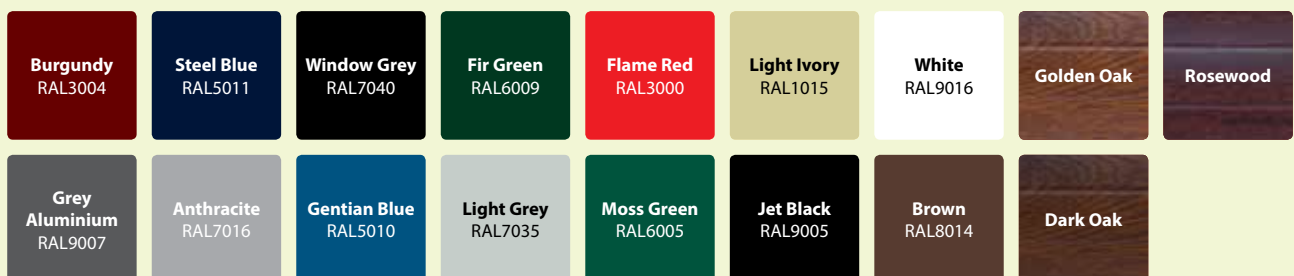
Modern panel type with horizontal ribs located at an equal distance from each other.

Due to the symmetrical arrangement of the ribs the panel joints on a door leaf are absolutely unnoticeable.

The exterior face of the ribbed door has a woodgrain texture as standard, with a smooth finish being an option.

The inner side of all types of panels - smooth, with horizontal ribs. Colour - RAL 9002.

14 standard colours



Wood effect

Colours printed may differ from actual colours

Colour choice may incur an additional cost

MORE INDIVIDUALITY FOR YOUR DOORS



Golden Oak, Rosewood and Dark Oak panels are available in each ribbed design, S, M or L rib.

Both the inside and outside surface of the panel is smooth.



Wood effect sectional doors have the same properties as a standard colour door.

- Provide reliable protection of property;
- Have high anticorrosion features;
- Ultraviolet resistant;
- Have high strength and thermal insulation features.

Georgian paneled doors are available in Golden Oak or Dark Oak, and have a woodgrain embossed finish on both inside and outside face.

Sectional doors finished in Golden Oak, Rosewood or Dark Oak, are designed to imitate wood structures or to compliment UPVC window units. They are resistant to UV light and humidity and will stay looking good for years to come.



Wood Effect Sectional doors will add an element of individuality to your home.



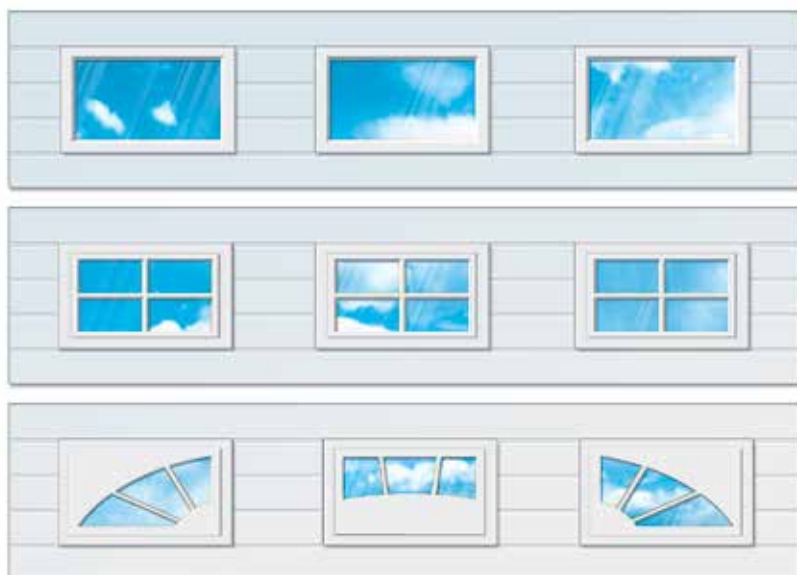
OPTIONS

WINDOWS

Daylight in a garage is the additional advantage. We offer several types of windows.

On Client's request windows can be supplied with decorative plastic framing Cross or Sunburst.

Windows with decorative elements provide a garage door with individuality. Such doors harmoniously fit into the architecture of private houses, complementing and emphasizing their modern appearance.



KEY LOCK

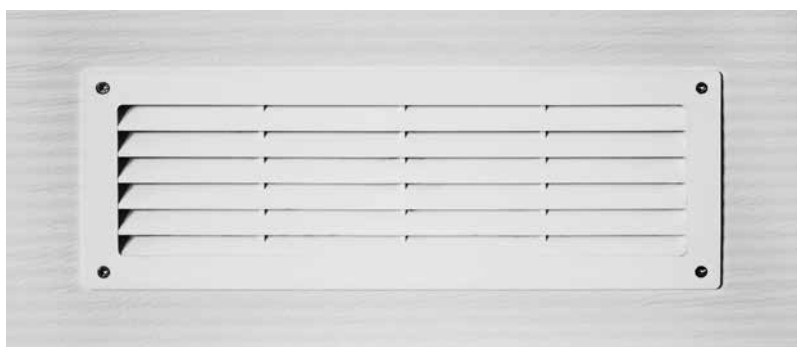


For a garage without additional entrance we offer a key lock for closing a door from outside and inside.

The key lock provides a secure locking of a garage door, its is easily mounted and has a nice look.



AIR GRID



Air grid provides natural ventilation of premises and can be installed in doors, to which special requirements are applied by fire safety services. Alutech offers white and black air grids with protective mosquito nets and possibility of vents closing.

Additional accessories for Alutech sectional doors can satisfy the most demanding Clients. Windows, wicket door, key lock and other options provide convenience and comfort, and keep the attractive look of a door.



WICKET DOOR

Wicket door prolongs garage doors life time. To enter a garage there is no need to open and close a door every time. Wicket door helps to down efforts and time.

Alutech offers two types of wicket doors:

- Wicket door with standard threshold. Due to reinforced design this wicket door can be installed into garage door with the maximum width of 5 metres.
- Wicket door with low threshold complies with fire safety requirements. The maximum door width with this wicket is 4,5 metres.

GARAGE SIDE DOOR

Side door and sectional door are finished in the same style and harmoniously fit a building and complement each other perfectly.

Side door is produced of sandwich panels framed by aluminum profiles.

Selection of panels is made individually for each side door to provide the common style with garage doors nearby.



Individual approach to each order and a wide choice of optional accessories make it possible to offer a complete solution for any premises.




ALUTECH GARAGE DOORS DESIGN FEATURES

STANDARD garage doors

Leaf balancing is realized by tension springs.




1



Tension springs enable to lift a door up to 3,5 metres in width and up to 3 metres in height with minimum effort made.

The unique fixing method is protected by a patent.



3



The tension of springs can be increased or decreased while mounting or during subsequent doors usage. Thanks to it a door service does not require a lot of time and costs.

2



Roller brackets design enables reliable and convenient adjustment of door leaf pressure onto a passage. The brackets guarantee better thermal and sound insulation, as well as protection from weathering.

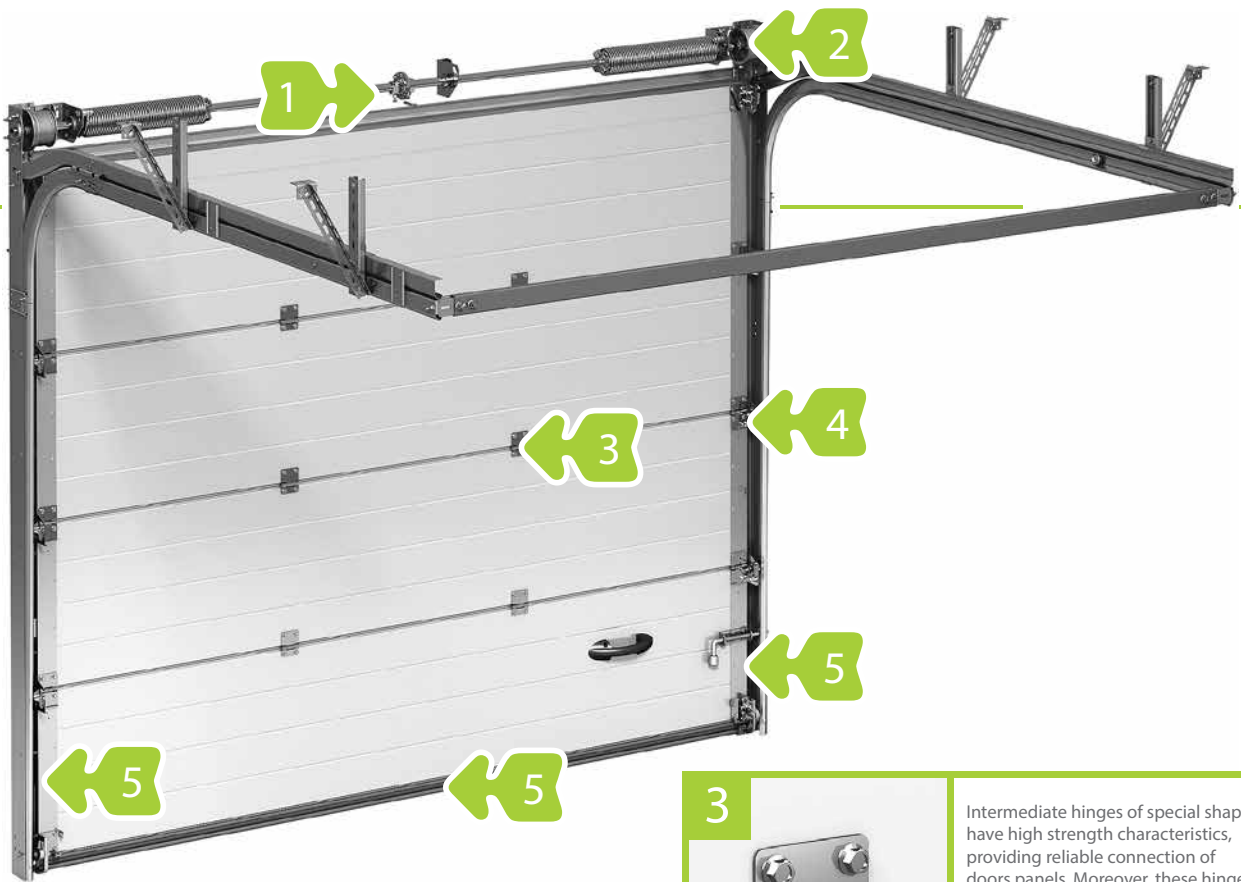
4



Hidden mounting of end profiles makes a door more attractive. Sealing around the perimeter of a sectional door provides reliable hermetization of an opening.

CLASSIC garage doors

Leaf balancing is realized by torsion springs.




3



Intermediate hinges of special shape have high strength characteristics, providing reliable connection of doors panels. Moreover, these hinges are made of stainless steel and have high anti-corrosion features.

1



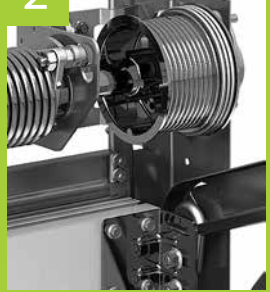
When connecting two parts of a shaft, adjustable connecting coupler enables to turn them against each other providing an equal cable rope tension.

4



Roller brackets are made of high anti-corrosion materials (stainless steel and aluminum). These materials are not subject to corrosion, that ensures reliable operation of sectional doors throughout the life-time.

2



Each torsion spring is fitted out by a special device, which stops the door leaf in case of spring breakage preventing it from falling.

5



Sectional doors are fitted out by polymeric rubber seals along their perimeter. Together with track profiles the seals provide reliable hermetization of a passage.

ALUTECH POWER OPERATED DOORS



It is simply needed to press the button to open a door



Automated garage doors by ALUTECH are easy to control remotely from a car. This is particularly convenient in rainy or snowy weather. To open doors you simply need to push the button on remote control.

OPERATORS FOR GARAGE DOORS

The qualitative and reliable automation in different price categories is used to automate a garage door.

Operator with rail is mounted right under a ceiling of premises. Sectional doors are moved by a drive belt (or chain) placed in operator rail.

The choice of operator for sectional doors depends on different parameters:

- Doors size and weight;
- Frequency of use;
- Required speed of doors opening/closing;
- Operation conditions.



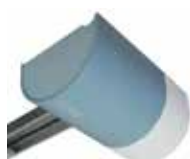
remote control device



SPIN



SPIDER



SHEL



COMFORT



GDO

COMFORTABLE AND SAFE OPERATION OF A GARAGE DOOR

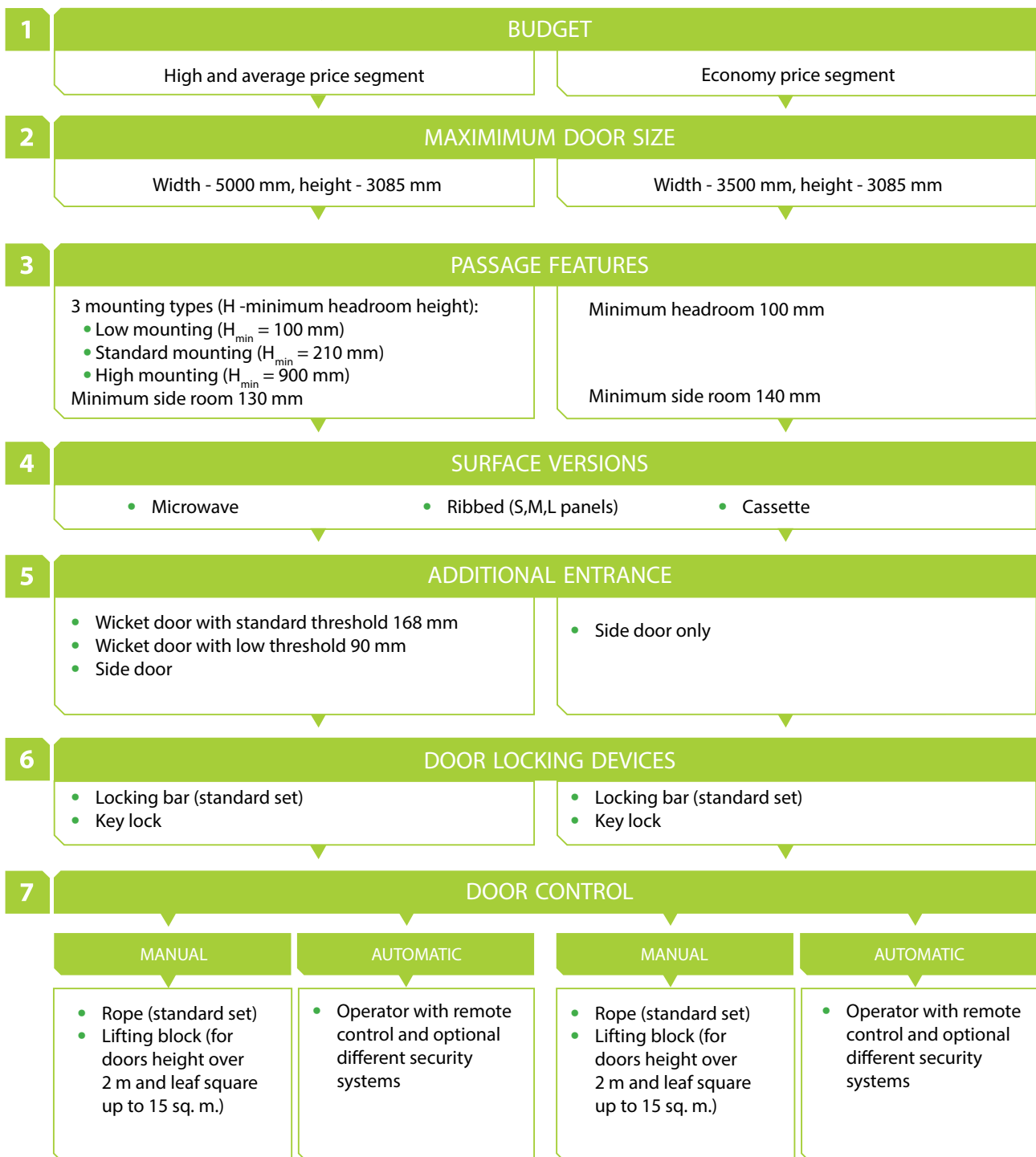
Additional accessories - remote control, photo cells, transponder cards and others – will help to expand door control features and improve safety and functionality of a system.



ALUTECH GARAGE DOORS SELECTION

CLASSIC Garage Door

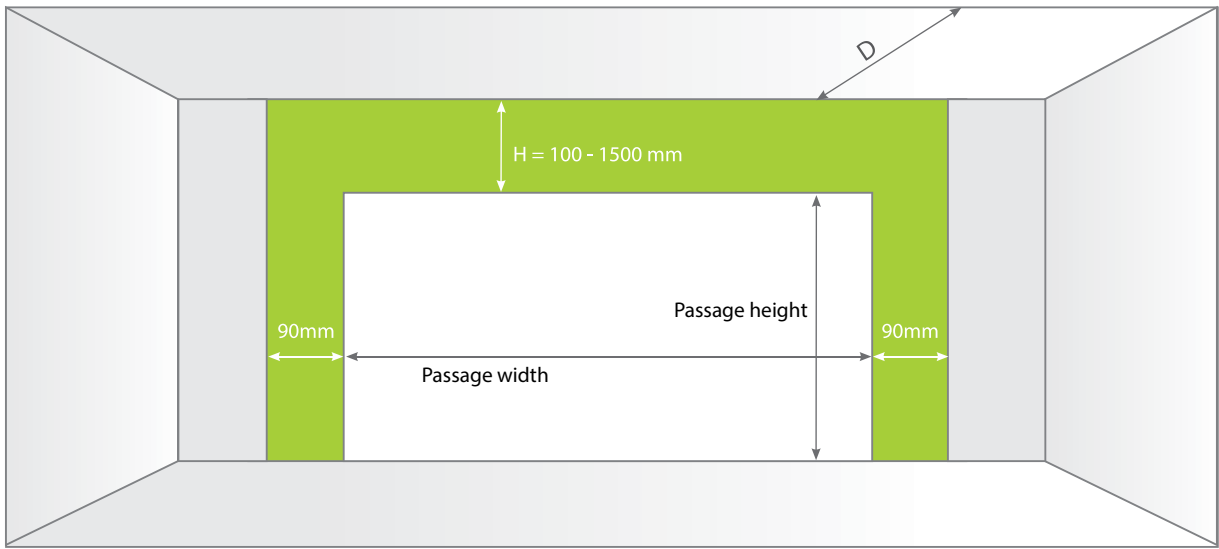
STANDARD Garage Door





An appropriate variant of a sectional door design and well prepared door opening will extend a door life.

Four variants of Alutech garage doors design enable to install doors almost in any garage passage

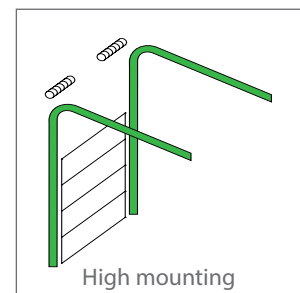
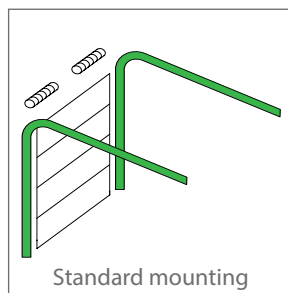
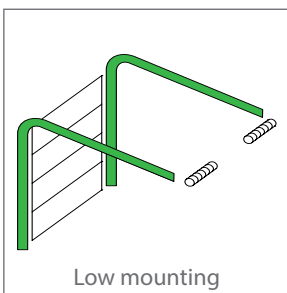


D – required distance back

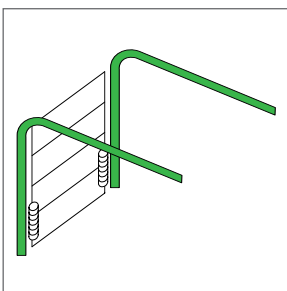
For door with manual control
 $D = H + 580 \text{ mm}$

For doors with automatic control
 $D_{\min} = 3180 \text{ mm}, D_{\max} = 4370 \text{ mm}$

Garage door with torsion springs



Garage door with tension springs



| Mounting type | Headroom height (H), mm |
|-------------------|-------------------------|
| CLASSIC | |
| Low mounting | Min 100 |
| Standard mounting | Min 210 |
| High mounting | Min 900 |
| STANDARD | |
| | Min 100 |

ALUTECH GARAGE DOOR TECHNICAL FEATURES

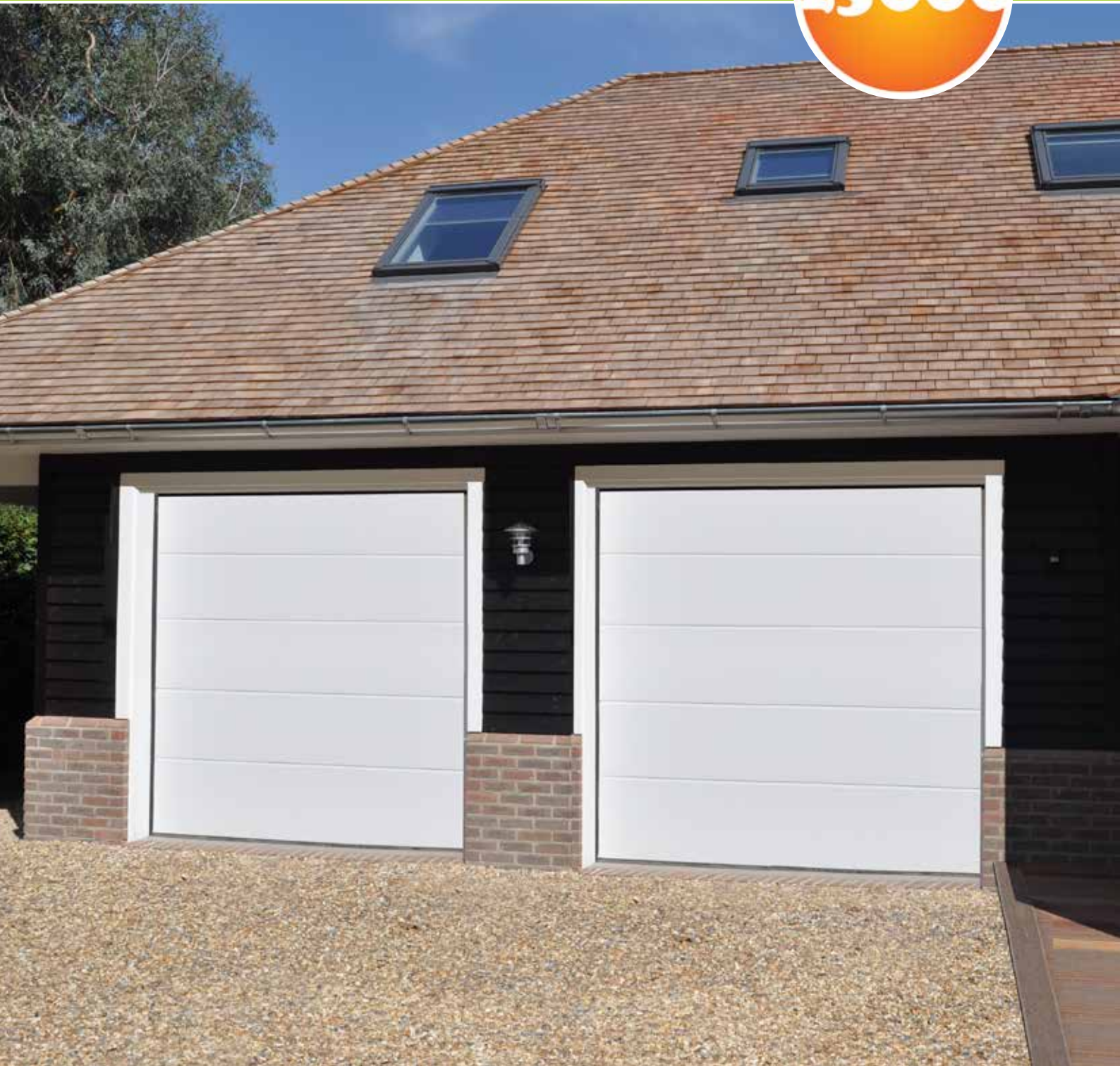
■ Standard set

■ Option

| | | CLASSIC Garage Door | STANDARD Garage Door |
|--------------------------|---|---|---|
| Max Size | Width, mm | 5000 | 3500 |
| | Height, mm | 3085 | 3085 |
| Sandwich Panel | Thickness, mm | 45 | 45 |
| | Surface versions | Ribbed (S, M, L type), Microwave, Cassette panel | Ribbed (S, M, L type), Microwave, Cassette panel |
| | Embossment pattern | Woodgrain Silkgrain (smooth) | Woodgrain Silkgrain (smooth) |
| Safety Functions | Protection against falling and uncontrolled movement of a door leaf | ■ | ■ |
| | Protection against finger jams | ■ | ■ |
| | Protection against hooking and cutting | ■ | ■ |
| Minimum Spring Endurance | Door opening - closing cycles | 25 000 | 25 000 |
| Balancing System | | Torsion Springs | Tension Springs |
| Wicket Door | Threshold height - 168 mm | ■ | - |
| | Threshold height - 90 mm | ■ | - |
| | Side door | ■ | ■ |
| Locks | Locking bar | ■ | ■ |
| | Key lock | ■ | ■ |
| Glazing | | ■ | ■ |
| Air Grids | | ■ | ■ |
| Door Control | Manual lift block | ■ | ■ |
| | Rail electric drive* | ■ | ■ |

* Recommended for doors height over 2m and leaf square up to 15 sq. m.

Springs endurance is 25 000 opening –
closing cycles or 17 years of operation





Alutech Door Systems



Alutech Incorporated



Alumintechno



Alstrong

The Alutech Group of Companies is one of the market leaders in Europe for Sectional Doors and Roller Garage doors. Manufacturing is carried out in one of six manufacturing facilities in Germany and Belarus.

All group companies are supplied with high-tech equipment to manufacture products that meet all European standards for quality. It includes modern high-production line of sandwich panels for sectional doors, roll forming lines, ultra – modern complex to colour and to cut aluminum tape, high-tech production line of aluminum extruded profiles, automated systems to cast aluminum alloys, modern powder coating line, the largest in the CIS complex to anodize aluminum profiles.

Own industrial complexes within the holding company allow specialists of Alutech Group of companies to monitor product quality at all stages of the production process: from procurement of raw materials to production output and packaging. The Quality Management System for all enterprises is certified to the International standard ISO 9001 under TÜV CERT system.

By manufacturing products that meet international quality standards Alutech Group of companies is actively developing new markets.

Today Alutech sectional doors are in high demand in Europe, especially in the United Kingdom, Germany, the Netherlands, France, Austria and Norway.

ALUTECH Group of companies

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The compliance of the company's Quality Management System with the requirements of the standard ISO 9001:2008 is confirmed by the certificate TÜV Rheinland InterCert No. 75 10070322

