



# SECTIONAL GARAGE DOORS



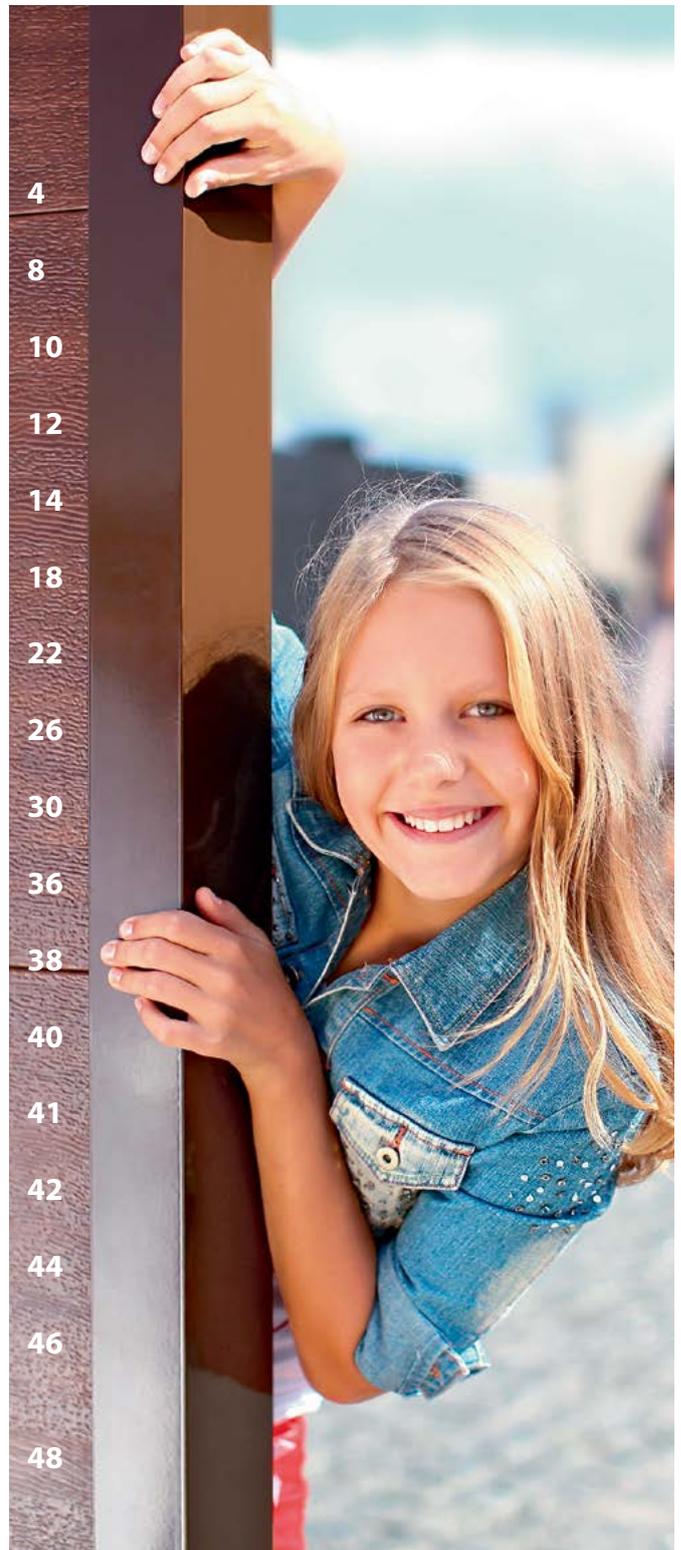
# HARMONY OF STYLE

and reliability of  
design—distinctive  
features of garage  
doors ALUTECH

Warm, reliable and safe doors ensure comfort and convenience every day. Wide choice of panels and colours for doors ALUTECH will help to emphasize individual style of modern architecture in hi-tech style or in classical cottage. Doors ALUTECH can be mounted almost in any garage. The shape of the opening is not important: rectangular, with bevelled edges, tapered or with an arc.

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REASONS  
in favour of  
ALUTECH doors





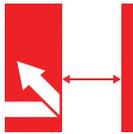
## EFFICIENT THERMAL INSULATION



ALUTECH Garage doors are good at keeping heat in the premises providing a comfortable temperature and saving on heating costs in the winter. The thermal transmittance coefficient for ALUTECH doors is:

- Trend Series (panel 40 mm)—**1,35 W/(m<sup>2</sup>K)\***;
- Classic Series (panel 45 mm)—**1,06 W/(m<sup>2</sup>K)\***.

Thermal insulation **U = 1.0 W/(m<sup>2</sup>K)** is comparable with a brick wall of **60 cm** thickness.



## DURABILITY AND RELIABLE PROTECTION



Panels with such a thickness are the basis of the doors' durability, robust construction and resistance to wind and impact loads.

The tests have showed that the ALUTECH Classic Series doors withstand a wind load of **700 Pa**, that corresponds to wind speed of **120 km/h**.



## LONG OPERATIONAL LIFE



ALUTECH sandwich panels have a closed loop design where steel sheets are interfixed into a 'lock'. Such a design protects panels against delamination in the sun and in the case of sudden closing of doors or similar damage, prolonging the operation of the door.

\* comparison is made for doors of 6000 mm x 3000 mm in size on the basis of tests conducted at the Rosenheim Institute



## RESISTANCE TO CORROSION



Tests in independent laboratories proved that ALUTECH door leaves can withstand exposure to 'salt fog' for **750 hours** which corresponds to **15 years** of operation in coastal regions and polluted industrial areas.

These unique anti-corrosion properties are possible due to:

- thickness of zinc coating (**16 micron**);
- double layer paint-and-lacquer coating (**PUR-PA**) **23-35 micron** thick.



## RELIABLE SEALING



ALUTECH doors are equipped around the perimeter with seals from modern **polymer materials** that tolerate temperature extremes. Flexible sealing inserts provide a reliable seal of the opening.

The design of the roller brackets allows adjustment of the door leaf position in relation to the opening, which helps to avoid gaps and undesirable loss of heat between the door leaf and garage walls.



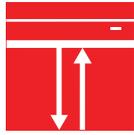
## SAFETY



Design of ALUTECH sectional doors provides protection from:

- finger trapping;
- uncontrolled movement of door leaf;
- door leaf fall in case of spring break.

Conformance to European standards EN 12604, EN 12453, EN 12424, EN 12425, EN 12426.



## MAXIMUM SPRING ENDURANCE



Lifetime of ALUTECH springs on sectional doors is up to **25 000 open/close cycles** which corresponds to approximately **17 years** of operation with 4 open/close cycles per day.

Springs capable of **25 000 open/close cycles** are offered as standard at no extra charge.



## WIDE POSSIBILITIES with no extra charge



ALUTECH doors are produced individually for each client at a standard price, in height and width increments of **5 mm**.

A wide choice of panels and colours allows clients to select a door to suit any project. The ALUTECH Group of Companies offers **5 types** of door leaf and an extended colour range for their doors—**10 colours** with no extra charge.



## QUICK AND QUALITATIVE SERVICE MAINTENANCE



ALUTECH not only produces qualitative doors but also provides quick and reliable service maintenance. To ensure quick maintenance from regional offices the ALUTECH Group of Companies has organised and stocks a wide range of spare parts and other resources in its warehouses.



## DOORS FOR ANY CONDITIONS



The range of ALUTECH garage doors is presented in two series—**Trend** and **Classic**. You can easily choose the correct type of doors to suit the climatic conditions in your area, features of operation, and your budget.



# Trend

Trend Series doors are economical and functional doors of 40 mm thickness with fittings made of galvanized steel, which are optimally suited for regions with temperate and cold climates. They comply with European standards; in addition all the safety systems are available at no additional charge. The standard door package includes a spring with a maximum lifetime when compared to competitors—of up to 25,000 open/close cycles.

Trend Series doors are safe and practical doors at a reasonable price.

## Characteristics

- The thickness of a sandwich panel is 40 mm
- The thermal transmittance coefficient is **1,35 W/(m<sup>2</sup>K)**
- Roller brackets and intermediate hinges are made of galvanised steel
- Can be installed in an opening greater than the ordering size
- Curtain balancing with tension springs or torsion springs
- The maximum size of the garage doors is 6000×3000 mm

**Comparable to a brick wall of 55 cm thickness**

# Classic

Classic Series doors are reliable and provide good insulation qualities as the panels are 45 mm thick. Classic Series doors are successfully installed and operated in countries with cold climate: Finland, Norway, Denmark, Sweden and others.

Rolling brackets and intermediate hinges are made of stainless steel and have high anti-corrosion properties, which makes it possible to operate the doors in areas with high humidity.

## Characteristics

- The thickness of a sandwich panel is 45 mm
- The thermal transmittance coefficient is **1,06 W/(m<sup>2</sup>K)**
- Roller brackets and intermediate hinges made of stainless steel
- Door leaf balancing with tension springs or torsion springs
- The maximum size of the garage doors is 6000×3000 mm

**Comparable to a brick wall of 60 cm thickness**

# Trend—AFFORDABLE, SAFE AND RELIABLE DOORS



WIDE  
OPPORTUNITIES  
OF INSTALLATION

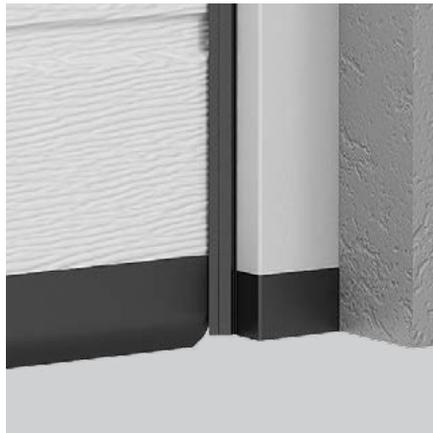


Angle bars and the cover strip of Trend Series doors may be positioned in the opening so that it allows you to install the standard doors in the opening of a greater size.

These design elements are made of hot-galvanised steel, which is further coated with a protective lacquer coating (standard—white colour **RAL 9016**). At your request, angle bars and the cover strip can be painted in the colour of the door leaf so that it will add to the doors harmonious appearance.



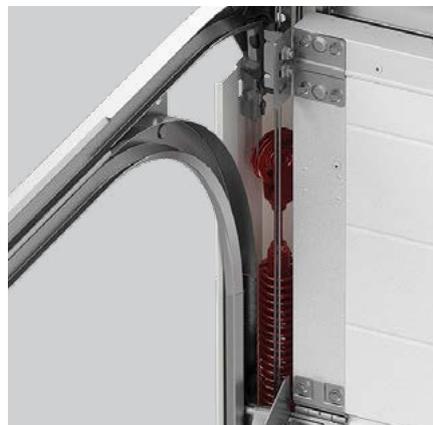
PROTECTION  
AGAINST  
CORROSION



In heavy rainfall water can collect at the bottom of the doors. **The polymeric base of the angle bars** minimises the possibility of corrosion in high humidity environments, providing an attractive appearance of doors for a long time.



LONG-LASTING  
OPERATIONAL LIFE



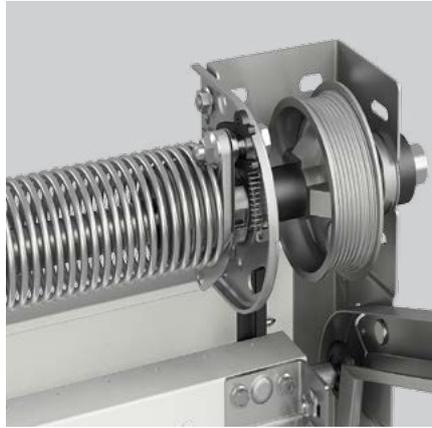
The spring mechanism compensates for the weight of the door leaf, this balancing allows even heavy doors to be easily opened and closed manually.

Lifetime of springs is up to **25 000 open/close** cycles. This corresponds to **17 years** of service with 4 times daily opening/closing during the period.

Using advanced technology and years of experience in manufacturing has allowed us to create doors that have a number of advantages. Carefully thought-out design and high-quality components provide attractive design, reliable and safe operation of **Trend Series doors** for many years.



## EFFECTIVE SAFETY

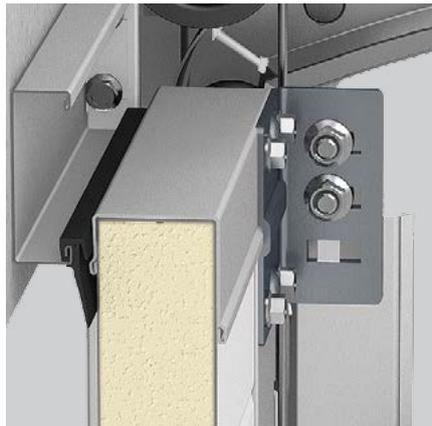


Torsion springs are equipped with **ratchet couplers** that block the door leaf from falling in the case of spring breakage. This protection system is supplied at no extra cost and ensures safe operation.

ALUTECH doors comply with European standard EN 13241-1, EN 12604, EN 12453, EN 12424, EN 12425, EN 12426.



## PROTECTION AGAINST DRAUGHTS



**Adjustable rolling brackets** allow achieving close proximity of the door leaf to seals. This protects against draughts and retains heat in the premises.

The proximity adjustment can be carried out both at the time of installation and in the course of their service. Your doors will be energy efficient for many years.



## SILENT MOVEMENT



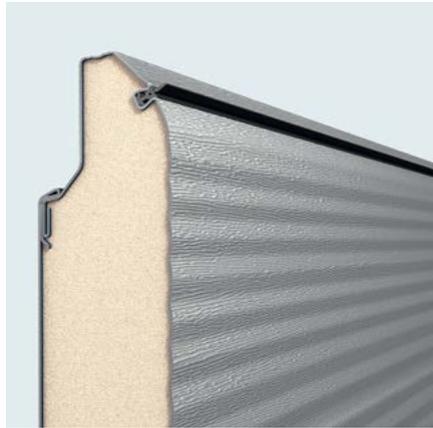
Thanks to the use of **rollers with rolling bearings** the doors move smoothly and quietly.

Ball bearings of a closed type, protected from dust and moisture are used in ALUTECH doors. These bearings do not require relubrication and provide high reliability and durability of the running gear.

# Classic—WARM, RELIABLE DOORS WITH LONG OPERATIONAL LIFE



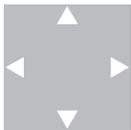
EXCELLENT  
HEAT  
INSULATION



The panel of **45 mm** thickness is a pledge towards excellent heat insulation.

The thermal transmittance coefficient of ALUTECH doors is **1,06 W/(m<sup>2</sup>K)**, which is comparable with the thermal insulation of a brick wall of **60 cm** thickness. These Doors will allow you to save money annually on heating costs.

These claims are confirmed by tests conducted at the Rosenheim GmbH Institute (Germany).



RELIABLE  
SEALING



**EPDM sealing inserts** of frost-resistant EPDM are located along the door perimeter. The top and side seals have two wings. This improves significantly the air tightness of the structure, and the air chamber between the wings provides the doors with additional heat insulation.

Classic Series doors have the best air tightness—the **5th grade of breathability** under EN12426.



FLUSH-MOUNTING  
OF ANGLE BARS

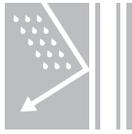


**Flush-mounting of angle bars and the cover strip** are provided with Classic Series doors—these elements are installed behind the opening. They do not have direct contact with the street and do not conduct cold in the premises.

This design of the angle bar can significantly improve the thermal insulation properties of the doors.

Mounting behind the opening provides additional protection for the angle bars from exposure to high humidity.

**Classic Series doors** are the ideal solution for energy-efficient buildings or premises with high humidity. With all the advantages of the Trend Series, Classic Series doors have a wide range of applications thanks to improved heat insulation, high strength and high corrosion resistance.



### LONG-LASTING PROTECTIVE COATING



Multi-coated sandwich panels and painted side plates provide high resistance to corrosion of the doors.

The ALUTECH door leaf withstands **750 hours** of 'salt fog', which corresponds to **15 years** of operation in a coastal area.

This is confirmed by independent tests.



### STAINLESS ACCESSORIES

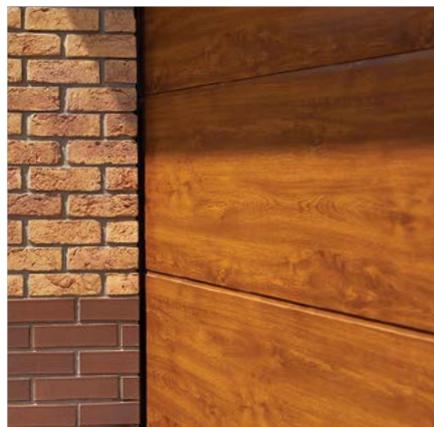


Intermediate hinges and rolling brackets made of **stainless steel** have high anti-corrosion properties, which guarantee reliable operation of the doors, even in premises with high humidity.

Stainless accessories are included in a standard set of Classic Series doors and are supplied at no extra cost.



### HIGH WIND RESISTANCE



The large thickness of a sandwich panel is the basis of the strength and stability of the doors to shock and wind loads.

**The 4th class of wind resistance** under EN12424—doors withstand wind speeds up to 120 km/h, which is confirmed by tests conducted at the Rosenheim GmbH Institute (Germany).



MODERN SECTIONAL DOORS  
MADE FROM  
S-RIBBED PANELS





# S- RIBBED Small PANEL

A modern type of panel with horizontal ribs positioned at an even distance from each other. Due to symmetrical positioning of the horizontal ribs, junctions between panels are absolutely unnoticeable.

## SECTIONAL GARAGE DOORS MADE FROM **S-RIBBED** PANELS

**Classic** without wicket  
Maximum door dimensions:  
**6000x3000 mm**

**Classic** with wicket  
Maximum door dimensions:  
**6000x3000 mm**

**Trend** without wicket  
Maximum door dimensions:  
**6000x3000 mm**

**Trend** with wicket  
Maximum door dimensions:  
**6000x3000 mm**

External surface of a panel  
**Woodgrain**

10 standard colours



It is possible to finish doors in other **RAL colours**

Door leaf  
made from **S-ribbed** panels

## **S-RIBBED** PANEL Wood finish colours

External surface of a panel  
**Smooth**

3 variants:



Doors in wood finishes supplement and emphasise the individual style of your house providing it with an exclusive, convenient and prestigious design



Internal surface of a panel  
**Woodgrain**

Standard colour  
White-and -grey (close to **RAL 9002**)

It is possible to finish doors in other **RAL colours**



ELEGANT GARAGE DOORS  
MADE FROM  
**M-RIBBED** PANELS





Garage doors made from **M-ribbed panels** are distinguished with a modern and elegant design. They perfectly match with the architecture of most private cottages and houses.

# M RIBBED PANELS

## SECTIONAL GARAGE DOORS MADE FROM **M-RIBBED** PANELS

**Classic** without wicket  
Maximum door dimensions:  
**6000x3000 mm**

**Trend** without wicket  
Maximum door dimensions:  
**6000x3000 mm**

External surface of a panel

**Woodgrain**

**Smooth**

2 standard colours

2 standard colours



It is possible to finish doors in other **RAL** colours

Door leaf made from

**M-ribbed** panels



# M-RIBBED PANEL

## Wood finish colours

External surface of a panel

**Smooth**

3 variants:



Internal surface of a panel  
**Woodgrain**

Standard colour White-and -grey  
(close to **RAL 9002**)

It is possible to finish doors in  
other **RAL** colours

Doors in wood finishes are the perfect choice for private cottages and houses constructed wood, red brick and other finishing materials



HARMONIOUS GARAGE DOORS  
MADE FROM  
**L-RIBBED** PANELS





# L-**Large** RIBBED PANELS

The wide horizontal rib of **L-ribbed panels** will emphasise the individual style of your house and give it a special charm.

## SECTIONAL GARAGE DOORS FROM **L-RIBBED** PANELS

**Classic** without wicket  
Maximum door dimensions:  
**6000x3000 mm**

**Trend** without wicket  
Maximum door dimensions:  
**6000x3000 mm**

External surface of a panel

**Woodgrain**

2 standard colours:



**Smooth**

3 standard colours:



Door leaf made from **L-ribbed** panels



It is possible to finish doors in other **RAL** colours

## L-RIBBED PANEL

# Wood finish colours

External surface of a panel

**Smooth**

3 variants



Internal surface of a panel  
**Woodgrain**

Standard colour White-and -grey  
(close to **RAL 9002**)

It is possible to finish doors in other **RAL** colours

Doors in wood finishes look as if they are produced from solid piece of wood. At the same time they are much easier to maintain and have high thermal insulation parameters.



CLASSICAL GARAGE DOORS  
MADE FROM  
CASSETTE PANELS





**Cassette panels** are a classical variant for sectional garage doors. Cassettes are positioned symmetrically creating a harmonious design of door leaf.

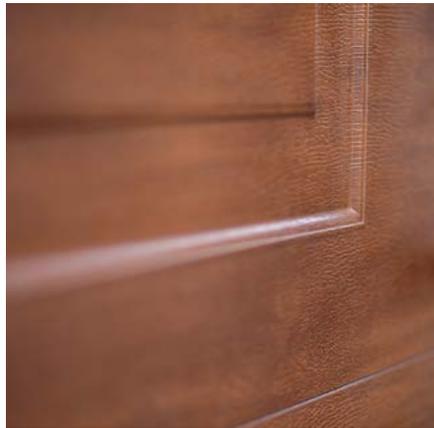
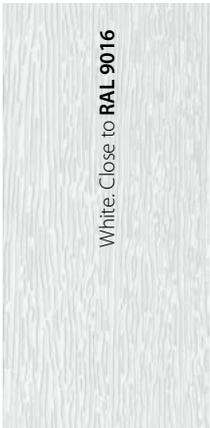
## SECTIONAL GARAGE DOORS MADE FROM **CASSETTE PANELS**

**Classic** without wicket  
Maximum door dimensions:  
**5000x3000 mm**

**Trend** without wicket  
Maximum door dimensions:  
**5000x3000 mm**

External surface of a panel  
**Woodgrain**

2 standard colours



It is possible to finish doors in other **RAL** colours

Door leaf made from  
**cassette panels**



## Panels of type **Cassette** Wood finish colours

External surface of a panel  
**Woodgrain**

2 variants



Steel sandwich panels **in wood finishes** imitate authentically wood structure, they are resistant to UV radiation, humidity and remain attractive for a long time



Internal surface of a panel  
**Woodgrain**

Standard colour White-and -grey  
(close to **RAL 9002**)

It is possible to finish doors in other **RAL** colour



PRACTICAL GARAGE DOORS  
MADE FROM  
**MICROWAVE** PANELS



# MICRO- WAVE PANEL

Elegant **microwaves** on the surface of the door leaf emphasise the modern architecture of new buildings. The 'microwave' pattern helps to hide minor damage to the paint-and-lacquer coating ensuring your doors remain attractive for a long time.

## SECTIONAL GARAGE DOORS MADE FROM **MICROWAVE** PANELS

**Classic** without wicket  
Maximum door dimensions:  
**6000x3000 mm**

**Classic** with wicket  
Maximum door dimensions:  
**6000x3000 mm**

**Trend** without wicket  
Maximum door dimensions:  
**6000x3000 mm**

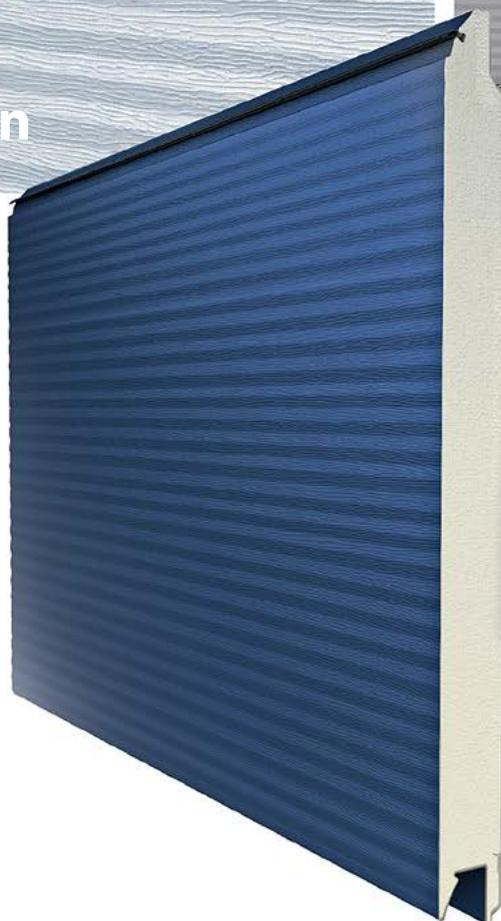
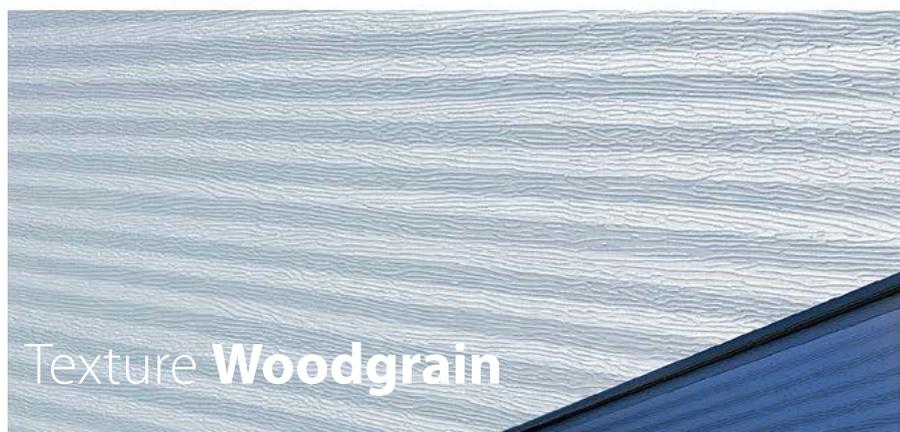
**Trend** with wicket  
Maximum door dimensions:  
**6000x3000 mm**

External surface of a panel  
**Woodgrain**

Door leaf type  
**microwave**

10 standard colours

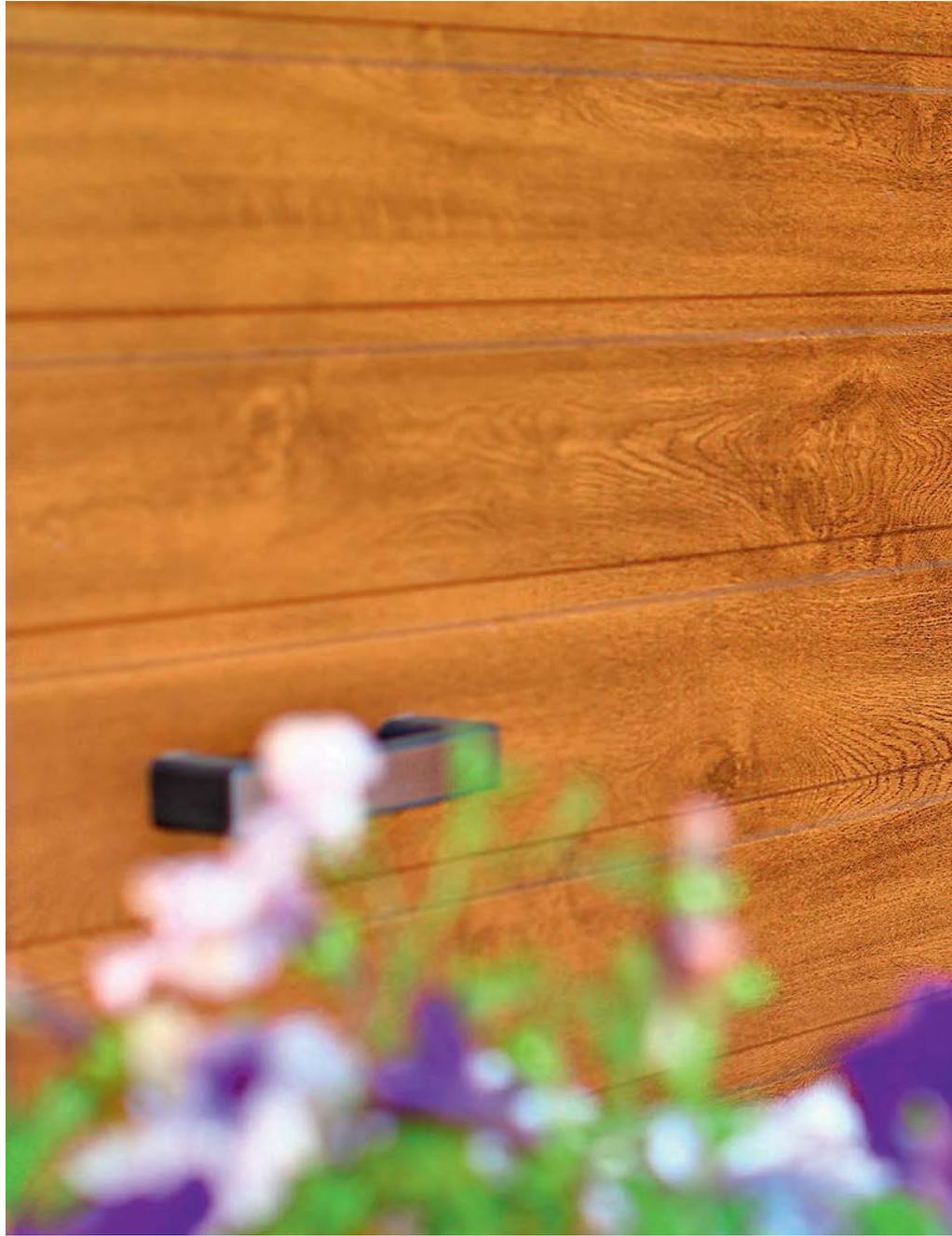
It is possible to finish doors in other **RAL** colours



Internal surface of a panel  
**Woodgrain**

Standard colour White-and -grey  
(close to **RAL 9002**)

It is possible to finish doors in  
other **RAL** colours



WICKET DOOR —  
MAXIMUM  
OPPORTUNITIES



# WICKET DOOR



**A wicket door** is a practical and convenient solution. It allows entering the garage without opening the door itself, which provides convenient operation, saves your efforts and increases the door's endurance. With a wicket door ALUTECH doors will work for longer!

## CONVENIENCE IN DETAIL

- Linear door closer
- Inbuilt sensor determines wicket position
- Rain visor
- Metal handles
- Special device eliminates sagging of wicket during use

Wicket is available built into garage doors series Trend and Classic with **microwave** panels and **S-, M-, L-ribbed** panels



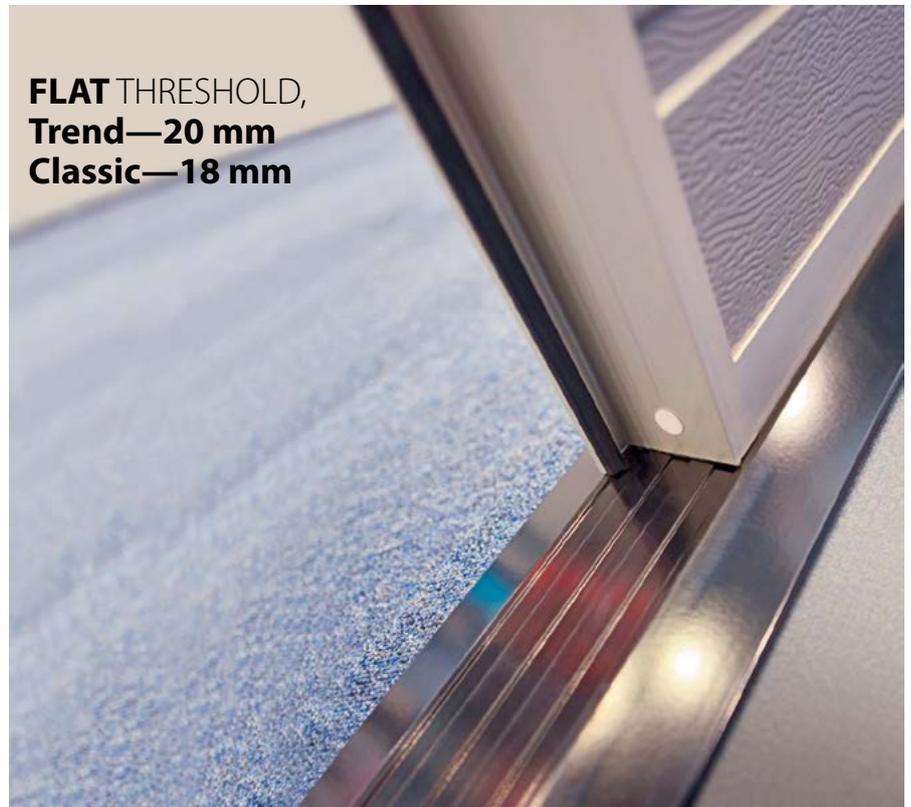
### STANDARD THRESHOLD, 145 mm

For doors more than **4500×3000** mm  
 Wicket with standard threshold has a reinforced construction.  
 It is mounted into the doors with maximum dimensions.  
 Maximum dimensions of doors with wicket are **6000×3000** mm

### LOW THRESHOLD, 100 mm

For doors less than **4500×3000** mm  
 Wicket with low threshold conforms to requirements of fire safety.  
 It can be mounted in areas of emergency exit location.

Wicket threshold is only 18–20 mm. Due to its shape such a threshold ensures maximum convenience in the process of operation. Flat threshold provides unhampered passing for bicycles and carts through the wicket. Maximum dimensions of doors with wicket are 5000×3000 mm.



### FLAT THRESHOLD, Trend—20 mm Classic—18 mm



### COLOURS FOR WICKET FRAMING

Colour of wicket handle matches the colour of wicket framing



Brown  
 (powder coating, colour close to **RAL 8019**)

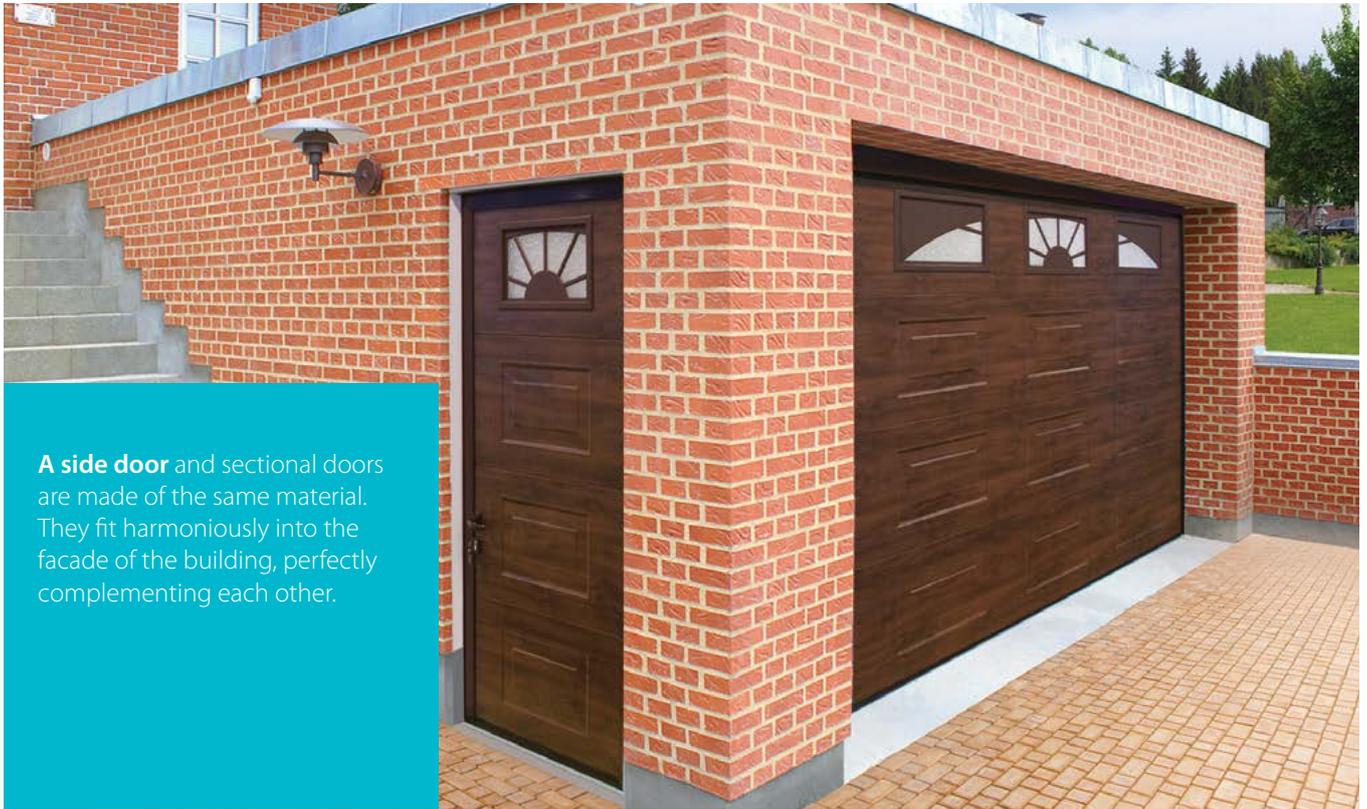


Silver aluminium  
 (anodized coating, colour **A00-D6**)



It is possible to paint the wicket profiles in other colours according to RAL catalogue

# SIDE DOOR WITH SECTIONAL DOORS



A side door and sectional doors are made of the same material. They fit harmoniously into the facade of the building, perfectly complementing each other.

The box and the side door frame are made of extruded aluminium profiles.

Surface and built-in mounting allows you to install a side door in any opening to suit the demands of the customer.

The side door has a wide range of variations: right and left-hand opening, and both inward and outward opening as well.

EPDM polyurethane sealing inserts are located along the door perimeter to ensure a reliable seal to the opening.

## VARIANTS OF DESIGN



10 standard colours close to RAL, 3 wood finish colours

Side door is installed with doors series **Trend** and **Classic**

Standard colour of side door profiles — silver metallic (close to **RAL 9006**) white (close to **RAL 9016**) grey-brown (close to **RAL 8019**)

**It is possible to paint the side door profiles in other colours according to RAL catalogue**



3 standard colours close to **RAL**  
3 wood finish colours

M-ribbed



4 standard colours close to **RAL**  
3 colours wood finish colours

L-ribbed



2 standard colours close to **RAL**  
2 wood finish colours

Cassette



10 standard colours close to **RAL**

Microwave

# ACCESSORIES

## for your comfort

### WINDOWS

Glazing for garage doors provides natural lighting and allows saving of energy. Moreover, windows are an original ornamental element.

Windows are installed in doors series **Classic** and **Standard** made from:

- microwave
- S-ribbed panels
- M-ribbed panels
- L-ribbed panels
- cassette panels

Frame and decorative inserts **Cross** and **Sunrise**—plastic

Colour of external frame and inserts—**white** and **brown**

It is possible to paint the frame and insert in colours according to **RAL** catalogue



### EXTERNAL DISCONNECT DEVICE FOR ELECTRIC DRIVE

Automated doors fitted to garages without a handle or another means of access like a side door, require the installation of an emergency disconnect device to disable the electric drive from the outside of the door, for example in the case of a power cut. Our convenient and compact external disconnect device will provide easy switching from automated to manual operating mode. Cable length—**4500** mm.

Classical rectangular window



Decorative glazing **Cross**



Decorative glazing **Sunrise**



Classical round window



Classical square window



### LOCK

For garages without additional exit it is necessary to have a lock which allows opening and closing doors from inside and outside.

There is also an option to connect an external disconnect device for the electric drive to the key lock. If the power is off this device is used to change the operating mode of the electric drive to manual.



# REVEAL FIT

## Unlimited options for mounting garage doors

### Set for reveal fit:

- set of side and top decorative plates
- set of brackets for fixing the track system to the wall

### Reveal fit is used for the following doors:

- **Trend** and **Classic** with tension springs
- **Trend** and **Classic** with torsion springs of low type of mounting

### Opening parameters:

#### Classic

- sideroom **from 0 to 125 mm**
- headroom above door **from 0 to 145 mm**

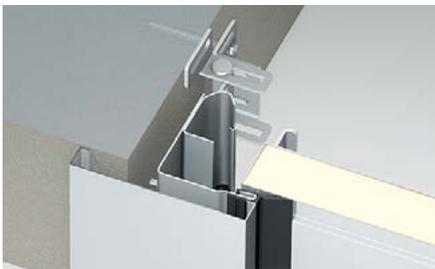
#### Trend

- sideroom **from 0 to 100 mm**
- headroom above door **from 0 to 145 mm**

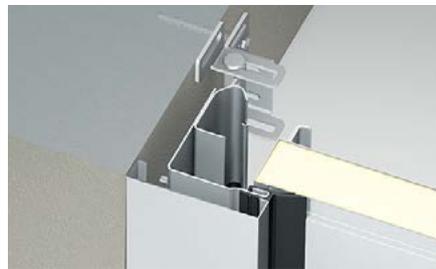
Special option 'Reveal fit' is offered for installation of sectional doors in non-standard openings of the 'tunnel' type, openings without top headroom or side room.

Reveal fit is often used when replacing old swing doors with sectional ones. Additional work to reconstruct the opening is not required.

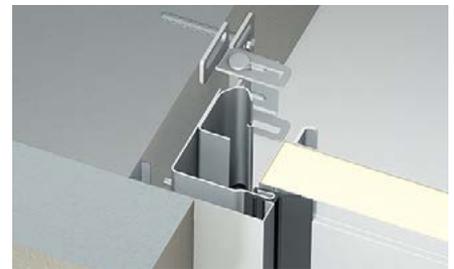
## VARIANTS OF SIDE DECORATIVE PROFILES INSTALLATION



**Mounting in front of the opening**  
Where no side decorative profiles exist



**Mounting in between** the opening  
Where no side decorative profiles exist



**Mounting behind the opening**  
Where side decorative profiles are present

## VARIANTS OF TOP DECORATIVE PROFILES INSTALLATION



**Mounting in front of the opening**



**Mounting in between** the opening

4 standard colours for decorative profiles:

White. Close to <b>RAL 9016</b>
Brown. Close to <b>RAL 8014</b>
Chocolate. Close to <b>RAL 8017</b>
Anthracite. Close to <b>ADS 703</b>

It is possible to finish the elements into the colour of doors

The figure shows the reveal fit of Classic Series garage doors.

# COMFORT



## MODERN TECHNOLOGIES

for comfortable and safe operation

Additional elements—remote controls, photo cells, proximity cards and many others—will help to extend the options for door operation and improve safety and functional efficiency of the whole system.

ALUTECH automated garage doors equipped with remote control are easily and efficiently operated directly from your car. It is particularly convenient in bad weather—when it rains or snows. All you need to do is to press a button on a remote control and the doors will open.



Digital 323

Command 107

Digital 302

Command 108

Special 630

# AND SAFE OPERATION



## SPEED AND CONTEMPORARY DESIGN



### Comfort 260.speed, Comfort 270.speed, Comfort 280.speed

Our showpieces in white. For very special requirements.

- Special motors designed for ALUTECH.
- An innovative high-speed function ensures that these door openers are 50% faster than openers supplied by other manufacturers.
- Energy efficiency decreases energy consumption to minimum (4 WT in stand-by).
- An integrated LED system provides bright, modern lighting.
- The patented power limitation feature and dual anti-burglary system provide optimum protection.
- The door openers can be programmed entirely intuitively using the LC display.
- A wide range of programmed opener functions ensures safety and comfort during garage door operation.

Unique technology. For safety and comfort.

#### Delivery set

- Motor with multi-bit radio control, 433 MHz
- Digital 302 Multi remote control 2-channel, 433 MHz Multi-Bit
- Universal installation kit for sectional doors

Belt rails of three lengths are available.

# ENERGY EFFICIENT



Due to the greater panel thickness and special construction of their sectional doors ALUTECH ensure excellent thermal insulation of premises

**ALUTECH DOORS THERMAL TRANSMITTANCE IS  $1,06 \text{ W}/(\text{m}^2\text{K})^*$ ,  
WHICH IS EQUAL TO BRICK WALL 60 CM THICK**

\* For doors from Classic Series based on tests conducted at the Rosenheim Institute

# GARAGE DOORS

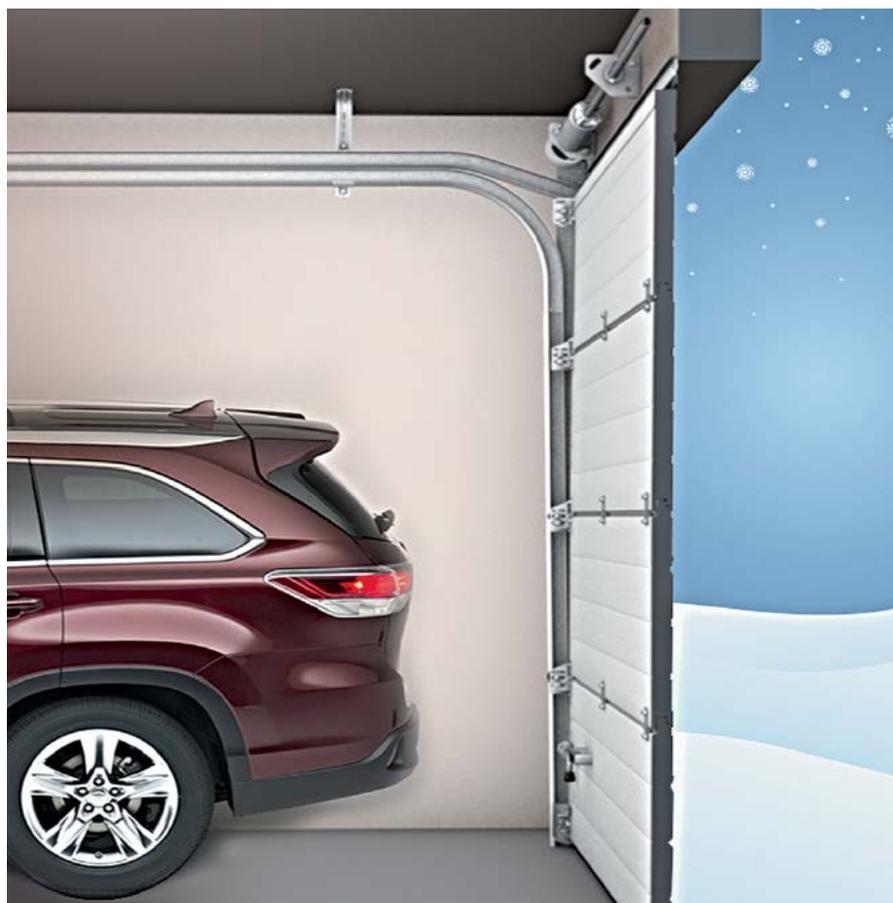
SANDWICH PANEL 45 mm —  
is one of the most robust in Europe

1 The panel thickness influences greatly door **thermal transmittance**. The more the panel thickness, the less the thermal transmittance.

2 Panels have polymeric **EPDM-seals** which ensure high mechanical endurance and flexibility in low temperatures. The seals prevent gaps between panels providing high thermal and sound insulation.

3 **Polymeric sealing** inserts are used to seal top and side parts of the opening, which provide additional protection against heat loss. The bottom flexible and cold resistant seal due to its shape hides small unevenness of the floor and ensures reliable protection of the bottom part of the opening.

4 The space between steel sides is filled with **foamed polyurethane** which has high thermal insulating properties.



# SANDWICH PANEL

## Perfect construction



### SAFETY

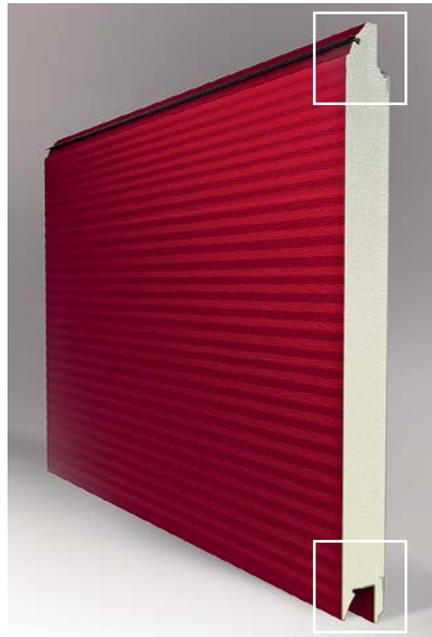
The construction of ALUTECH sandwich panels provide **protection from finger trapping** which is an obligatory requirement of European safety standards (EN12604). Protection from finger trapping is especially important for garage doors equipped with an electric drive.

### RELIABLE FITTING



Self-tapping screws are positioned at the junction of the of external and internal sheets (**4 layers of metal**) which makes the fixing more durable. Reliable connection of steel sheets prevents panels from delamination in the case of abrupt closing of doors.

### IDEAL DURABILITY



External and internal steel sheets of the sandwich panel are connected at the top and the bottom. Such a construction prevents panels from delamination caused by the heat of the sun, which is especially important for southern locations and for dark coloured doors.

# SANDWICH PANEL—BASIS FOR RELIABLE AND SAFE OPERATION OF SECTIONAL DOORS



1 | BUBBLE PROTECTION  
Adhesive lacquer of **12 microns** thickness provides excellent adhesion of steel sheets to the foam, protecting the panels from bubbling during heating in the sun.

2 | CORROSION RESISTANCE  
Zinc coating of **16 microns** thickness and primer layer of **5–7 microns** are the basis of the high anti-corrosion properties of the panel.

3 | LONG-LASTING COATING  
The external surface of a panel has a **polyurethane coating with integrated polyamide particles (PUR-PA)**:

- highly resistant to scratches which result from mechanical damage;
- highly resistant to temperature and humidity fluctuation;
- high parameters of rigidity and flexibility;
- excellent anti-corrosion properties;
- resistant to washing and chemical agents.

40<sub>mm</sub>

45<sub>mm</sub>

# TECHNICAL INFORMATION

## Garage doors series **Trend**

Standard dimensions of doors made from **microwave, S-, M-, L-ribbed panels**

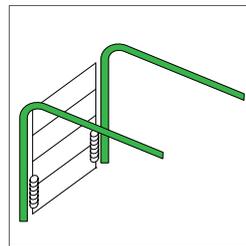
Height, mm	Width, mm																																							
	1750	1875	2000	2125	2250	2375	2500	2625	2750	2875	3000	3125	3250	3375	3500	3625	3750	3875	4000	4125	4250	4375	4500	4625	4750	4875	5000	5125	5250	5375	5500	5625	5750	5875	6000					
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- Torsion springs
- Tension springs

Standard dimensions of doors made from **cassette panels**

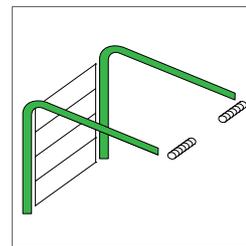
Height, mm	Width, mm																																								
	2110	2250	2375	2500	2625	2750	2875	3000	3125	3250	3375	3500	3625	3750	3875	4000	4125	4250	4375	4500	4625	4750	4875	5000																	
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### TYPE OF DOORS MOUNTING



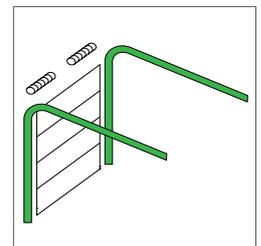
with tension springs

reveal fit



Low type of mounting

Low type of mounting, reveal fit



Standard type of mounting

Headroom dimension, $H_{min}$ , mm	100	0	100	0	210
Sideroom dimension, $S_{min}$ , mm	100	0	100	0	100



# ALUTECH SECTIONAL

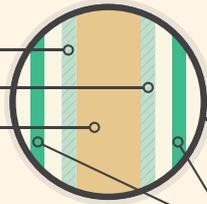
7 MAIN AD



## 1 THERMAL INSULATION

### SANDWICH PANEL

- External steel sheet
- Internal steel sheet
- Foamed polyurethane



ALUTECH sandwich panels are 40 and 45 mm thick.

### THERMAL INSULATION OF ALUTECH DOORS PANEL CORRESPONDS TO THE FOLLOWING MATERIALS



### THERMAL TRANSMITTANCE OF ALUTECH/GUENTHER DOORS

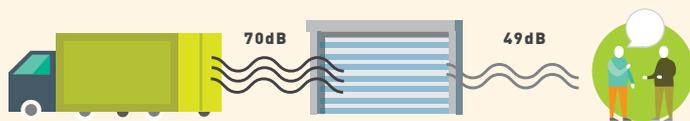
**Classic Series**  $U = 1,06 \text{ W}/(\text{m}^2\text{K})$

based on tests conducted at the Rosenheim Institute

**Trend Series**  $U = 1,35 \text{ W}/(\text{m}^2\text{K})$

based on tests conducted at the Rosenheim Institute

## 2 SOUND INSULATION



## 3 RELIABLE COATING

### RESISTANCE TO CORROSION

Zinc coating 16 microns thick and double layer polyurethane coating (25-35 microns) on the panel outer surface which is modified with polyamide particles (PUR-PA) which protects the sandwich panels from scratches and cuts caused by mechanical action and the effects of rain and coastal conditions.



Door panels and components have been confirmed in tests as being suitable for use in coastal conditions for up to 15 years.

## 4 COMFORT

### DURABILITY

**25 000**

open/close cycles

### AUTOMATIC



Allows opening doors within **15 seconds**.



which is equal to

**17 YEARS**

of operation with 4 open/close cycles per day



### IT IS KNOWN

The number of rainy days in Europe is 195.

# GARAGE DOORS

## VANTAGES



## 5 RESISTANCE TO WIND LOADS

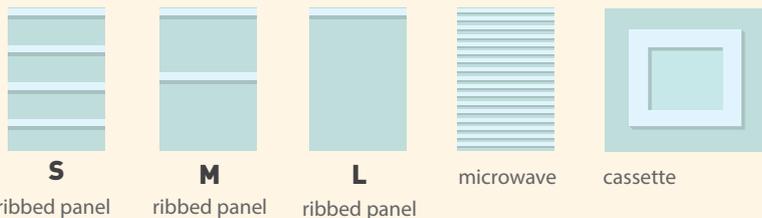
Doors withstand wind speed up to 120 km/h.



## 6 EXCELLENT DESIGN

### DIFFERENT PANEL PATTERNS

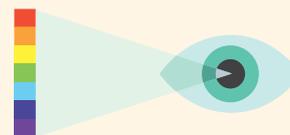
To suit all decorative styles.



### COLOUR RANGE

10 standard colours with no extra charge

Can be finished in all RAL colours (232 colours)



### Wood finish colours



Learn more about different types of panels and colours.



## 7 SAFETY

Correspond to European standards EN 12604 and EN 12453.

### PROTECTION AGAINST DOOR LEAF FALLING

1 m<sup>2</sup> of door leaf weighs approximately 15 kg. Weight of medium size door of Classic Series (7 m<sup>2</sup>) — is more than 100 kg.

The door leaf is safely balanced with springs that do not move independently. A special device protects against spring break and the door leaf falling.



### DOOR LEAF STOPS IF THERE IS AN OBSTACLE



### PROTECTING AGAINST FINGER TRAPPING



Sandwich panel design protects against finger trapping.

### OPERATION



Allows operating doors without leaving the car.

### VERTICAL OPENING



Saving space in front of the garage.



Don't have to clear snow in front of the garage.



Thus you will get wet 195 times less.

Alutech Doors Systems LLC



Alutech Incorporated LLC



AluminTechno LLC



The **ALUTECH Group of Companies** is one of the leaders in the production of roller shutter systems and sectional doors systems in Western and Eastern Europe, and a leading manufacturer of aluminum profile systems in the CIS countries. ALUTECH group includes five manufacturing plants, among them there are 3 factories for the production of sectional doors in Belarus, Russia and Ukraine.

All the enterprises of the Group of companies are equipped with high-tech equipment such as:

- two modern lines for the production of sandwich panels;
- roll-forming lines;
- line for coating and cutting of aluminium sheets;
- aluminium extrusion lines;
- automated machines for high pressure casting of aluminium alloys;
- modern powder coating lines;
- the CIS largest complex for anodizing of aluminium profiles.

High-tech equipment and our own manufacturing complexes allow specialists from the **ALUTECH Group of Companies** to control the quality of production at every manufacturing stage: from procurement of raw materials to manufacturing of finished product and its packaging. The quality management system in all group companies meets the requirements of **ISO 9001** International standard in **TÜV CERT** system, which is confirmed by the corresponding certificates.

**The ALUTECH Group of Companies** is actively expanding its markets. Nowadays, **ALUTECH** sectional doors are in demand in the 65 countries around the world: CIS countries and the Baltic, as well as in Germany, France, Austria, Holland, Czech Republic and other countries in Western and Eastern Europe. Products manufactured by the ALUTECH Group of Companies are installed on thousands of enterprises. **ALUTECH** sectional doors perfectly combine comfort, safety, aesthetic quality and style worthy of you and your house.

