



# 7 REASONS TO CONSIDER WHEN SELECTING A ROLLER SHUTTER

# MAXIMUM SAFETY AND COMFORT



## The best solution for your home

As we spend most of our time at home, it is important that our home is comfortable, cosy and safe. ALUTECH roller shutters offer us a variety of options to create a desired atmosphere.

## BENEFITS & USAGE of roller shutters



### Protection and burglar deterring

Protection of the property, windows and shop-windows. Special offer from ALUTECH is burglar-resistant systems.



### Weather protection

Excellent protection of windows from rain, snow, hail, wind and grit. Flying leaves and objects blown by the wind will not damage your windows.



### Energy saving and sun protection

Reduction of heat loss through windows up to 30% in winter, reduction of room heating up to 70% in summer. Providing comfortable cool atmosphere in hot summer days; protection of curtains, furniture and carpets from colour fading under the influence of sun rays.



### Reduction of noise and protection from prying eyes

Reduction of the level of noise for a more efficient work and comfortable leisure. Reliable protection of your private life and complete privacy in your own house.



### Aesthetical external appearance

More than 10\*\* years of day-to-day service thanks to improved strenghts characteristics and two-layer paint coating ensuring high resistance to abrasion.

\* Thermal efficiency characteristics of ALUTECH roller shutters are confirmed by test results conducted in ift Rosenheim (Germany)

\*\* Service life duration depends on operating conditions

# ENERGY SAVING

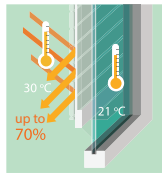
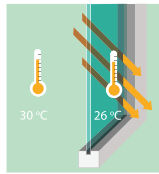


## Warm in winter and cool in summer

Energy saving has become a topical issue today. We have to use heaters to warm houses and offices in winter and air conditioners to create pleasant cool atmosphere in summer. Windows are one of the main sources of energy losses. Through windows the heat of the home escapes in winter, and in summer windows let in sun rays that heat the room.

# ALUTECH roller shutters – an efficient method for energy saving

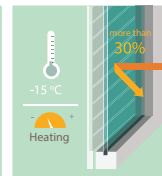
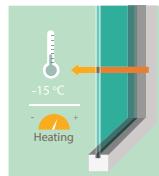
## Summer



### Sun protection

- + Lower energy consumption.
- + In summer the temperature inside can be reduced by 5° and more

## Winter



### Warm in winter

- + Roller shutters reduce heat losses through windows by 30% and more (This figure may be increased to 50% when using the profile AR/41T).

## ! Exclusive solution from Alutech

New energy saving profile - AR/41T. Roller shutters made of this profile will additionally help to save heat in winter and thus to reduce the cost of heating.

The main feature of this profile is double-sided coating. One side is covered with one of the standard coating colors whereas the other side has a special silver thermo-coating with lots of aluminium particles which provide still higher coefficient of heat reflection and thus contribute to conservation of warmth indoors.

**Thermal efficiency of ALUTECH roller shutter systems is confirmed by test results at the international institute ift Rosenheim (Germany).**

# RIGHT CHOICE



## Quality & Safety

We offer a wide range of profiles and components for roller shutter systems meeting the requirements of the most demanding clients. Choosing ALUTECH products you definitely get quality, reliability, security and comfort at competitive prices.

# 7 simple steps to make when choosing ALUTECH roller shutters

1

**Choose the type and series of the shutter box**  
depending on building/object and assembly type

2

**Choose the type of the profile**  
depending on the requirements for burglar protection, heat or sound insulation

3

**Choose the size of the profile**  
depending on dimensions of the opening and wind loading requirements

4

**Choose the guide rails**  
depending on the profile's type, size of the opening and the requirements for break-in protection

5

**Choose the operating system, manual or motorised**  
for the shutters, considering the size and weight of the curtain as well as the requirements for comfort

6

**Choose the locking system**  
depending on the chosen operating method

7

**Choose from over 20 colours**  
for the roller shutter finish to blend the walls and roof or create an individual choice.

**Additional solution**

"invisible" roller shutters with built-in shutter box



As a result you have the roller shutters meeting your expectations and demands.

IN HARMONY  
WITH ANY STYLE





# STEP 1

## Types of ALUTECH shutter boxes

### Built-in shutter boxes

Building a new dwelling or rebuilding an existing property is the ideal time to consider built-in roller shutters. A built-in shutter box SB-I is an “invisible” shutter box that is hidden into the window or door opening.



### External shutter boxes

When built-in shutters cannot be installed, external shutter boxes can be fitted during and after construction. They can be fitted both internally or externally to suit the client or architects requirements.

External shutter boxes are fitted to older properties where built-in or internal installation is not an option.



Shutter box locations and fixing methods should be planned during the project development stage

# VARIETY OF SHAPES TO SELECT FROM



Depending on the building's architecture and your wish list you can select the roller shutter type and the type of shutter box suitable exactly for your house.

We offer several series of shutter boxes for overlay mounting: round, half-rounded, 20° and 45°.

# STEP 1

## ALUTECH shutter box series

**20° and 45° shutter boxes** are the most optimal solution for buildings with strict geometry.



### Shutter box 45°

SB45 roll formed  
SB-P/45E extruded  
Sizes: 125...405 mm



### Shutter box 20°

SB20 roll formed  
SB-P/20E extruded  
Sizes: 137...205 mm

**Our round and quarter-round shutter boxes** will successfully accentuate the contours and features and become in harmony with the structure, blending into the surrounding building lines.



### Shutter box

SB-R roll formed  
SB-P/RE extruded  
Size: 137...205 mm



### Shutter box

SB-QR roll formed  
SB-P/RE extruded  
Size: 137...205 mm

# BUILT-IN ROLLER SHUTTERS



## Reliable systems for comfortable life

Roller shutters with built-in shutter boxes are a modern solution perfectly suitable for any type of building style and design. The shutter box is hidden onto the window and is unseen.



## Simple decision. Evident solution.

The shutter box is unseen being hidden inside of the window opening in a previously prepared housing. After finishing the building works the shutter box surface becomes plastered and indistinguishable from the surrounding surface.

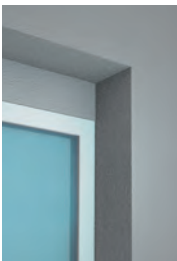


### Advantages of the system

- Simple and multioptional assembly, possibility to be installed on the windows of any type.
- Easy service maintenance due to the special removable bottom cover.
- Possibility to be installed on the reconstructed buildings as well as on the ready made buildings.
- Roller shutter with built-in shutter box integrate with building frontage without interrupting its style.

### Assembly features

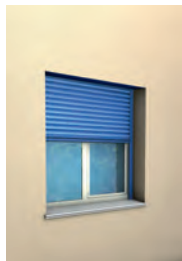
**1 step**  
Preparing  
housing



**2 step**  
Installation of all the  
elements of roller shutter



**3 step**  
External  
finishing



# ELEGANT LINES



## Reliable protection for any building

Roller shutters made from extruded profiles provide the greatest resistance to burglar attack and the highest levels of protection to shops, offices or banks.

Roller shutters made from roll formed profiles are an excellent cost-saving solution for private houses and offices.

## ALUTECH roller shutter profiles

### Roll formed profiles

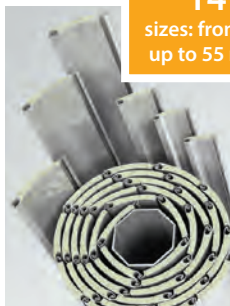
Roll formed profiles are made of high-quality aluminium coil with two-layer coating with an option for standard or high density foam insulation. We only use Polyurethane foams that does not contain any hydrocarbon or chloro-fluorocarbons (CFC) compounds.



ALUTECH roller shutters conform to European safety requirements EN13659.

14

sizes: from 37  
up to 55 mm



### Extruded profiles

Roller shutters made of the extruded profiles are a perfect solution for offices, shops and banks.

Excellent anti-burglar resistance due to the thickness of 1 to 1.5 mm and reinforcing rib.

Special offer – burglar-resistant roller shutter systems ALUTECH-certified class resistance to cracking RC 2, according to EN1627.

6

sizes from 42  
up to 55 mm



COMFORT  
AT ANY WEATHER





## Wind load resistance of ALUTECH roller shutters

Choice of the profile size depends on the opening sizes and the wind zone where the building is situated.

Wind loading varies by region and from a gentle wind to the storm that can break windows with broken tree branches.

**Installation of roller shutters is the best solution to protect your home from freaks of nature.**

It is very important to make a right choice of roller shutters which will protect windows and resist to the strong wind itself.

**ALUTECH roller shutter profiles are tested for wind resistance according to EN13659.**

ALUTECH roller shutters can be fitted in the openings up to 5,5 m wide and up to 14 m<sup>2</sup> area according to the profile size and wind zone loadings.



Please, contact our commercial representative who will help you to choose the roller shutter you need according to your wind zone and opening dimensions.

# RANGE OF PROFILE SIZES

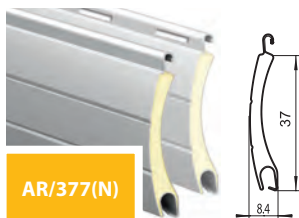
## Roll formed profiles

Roll formed profiles can be perforated or non perforated. Perforated profiles have a narrow aperture at the top by the hook. Diffused light penetrating and ventilation through the apertures create a pleasant environment.

## Extruded profiles

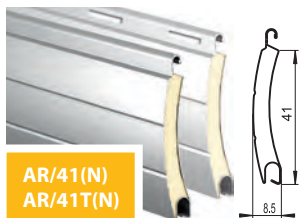
Profiles have been tested for wind resistance according to EN 13659.

\* The data on the maximum width and maximum area are quoted according to 1, 2 and 3 wind zones tests to EN13659



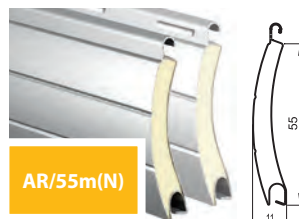
**AR/377(N)**

Classes of wind load resistance*	1	2	3
Max curtain width, m	3,0	2,7	2,4
Max curtain surface area, m <sup>2</sup>	6,5	6,0	5,3



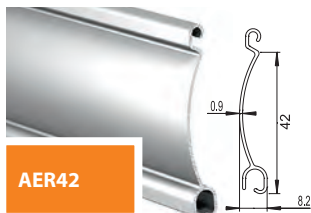
**AR/41(N)  
AR/41T(N)**

Classes of wind load resistance*	1	2	3
Max curtain width, m	3,2	3,0	2,6
Max curtain surface area, m <sup>2</sup>	9,7	9,0	7,7



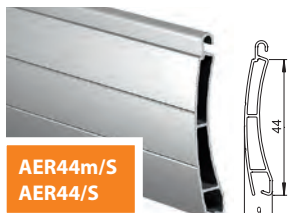
**AR/55m(N)**

Classes of wind load resistance*	1	2	3
Max curtain width, m	4,5	3,9	3,4
Max curtain surface area, m <sup>2</sup>	13,4	11,7	10,1



**AER42**

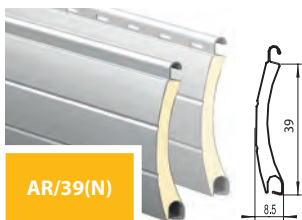
Classes of wind load resistance*	1
Max curtain width, m	2,5
Max curtain surface area, m <sup>2</sup>	6,0



**AER44m/S  
AER44/S**

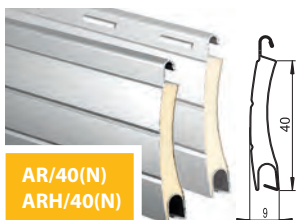
Classes of wind load resistance*	1	2	3
Max curtain width, m	4,3/4,3	3,9/4,0	3,4/3,4
Max curtain surface area, m <sup>2</sup>	12,8/12,8	11,6/11,9	10,1/10,1

# STEP 3



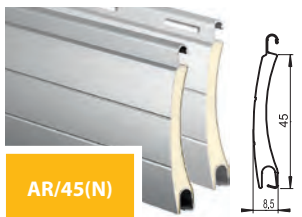
**AR/39(N)**

Classes of wind load resistance*	1	2	3
Max curtain width, m	3,0	2,8	2,4
Max curtain surface area, m <sup>2</sup>	9,1	8,5	7,3



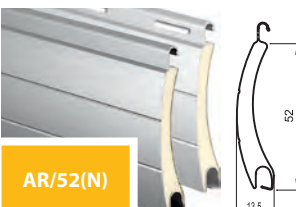
**AR/40(N)  
ARH/40(N)**

Classes of wind load resistance*	1	2	3
Max curtain width, m	4,0/4,4	3,7/3,8	3,3/3,4
Max curtain surface area, m <sup>2</sup>	12,1/13,2	11,0/11,5	9,8/10,1



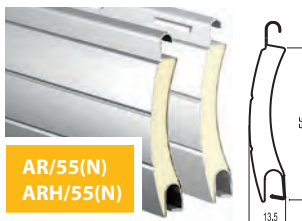
**AR/45(N)**

Classes of wind load resistance*	1	2	3
Max curtain width, m	3,4	3,1	2,6
Max curtain surface area, m <sup>2</sup>	10,2	9,4	7,9



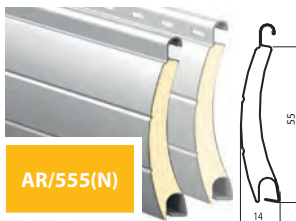
**AR/52(N)**

Classes of wind load resistance*	1	2	3
Max curtain width, m	4,8	4,2	3,7
Max curtain surface area, m <sup>2</sup>	12,5	11,0	9,5



**AR/55(N)  
ARH/55(N)**

Classes of wind load resistance*	1	2	3
Max curtain width, m	5,0/5,5	4,4/5,3	3,8/4,6
Max curtain surface area, m <sup>2</sup>	12,4/13,8	10,9/13,1	9,4/11,6



**AR/555(N)**

Classes of wind load resistance*	1	2	3
Max curtain width, m	5,1	4,5	4,1
Max curtain surface area, m <sup>2</sup>	12,8	11,3	10,2



**AER55m/S**

Classes of wind load resistance*	1	2	3
Max curtain width, m	5,7	5,6	5,0
Max curtain surface area, m <sup>2</sup>	14,2	13,9	12,4



**AER55/S**

Classes of wind load resistance*	1	2	3
Max curtain width, m	6,0	5,6	5,3
Max curtain surface area, m <sup>2</sup>	15,0	14,1	13,3

# OPTIONS FOR ANY OPENINGS



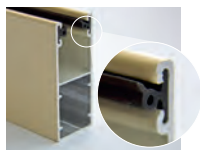
## Wide product range

ALUTECH Group of companies offers you a wide range of guide rails (20 sizes) and allows to choose the right product for roller shutters mounted in any type of opening. Meeting the requirements of intruder resistance, being also a cost-saving option for larger openings and an excellent option for openings with structural features.

# STEP 4

## Standard guide rails

To be used with standard roller shutters meeting main requirements .



## Strengthened guide rails

To be used with roller shutters in order to improve resistance to burglar attack.



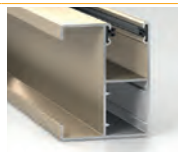
## Dual guide rails

To be used to combine 2 roller shutters or more reducing the cost of the construction.



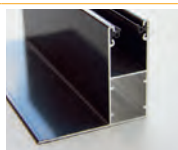
## Distance guide rails

To be used to distance the roller shutters from the window or door openings.



## Angular guide rails

To be used to install the roller shutters on the buildings with external heat-insulating cladding.



## Accessories

End caps for guide rails ensure a better external view of the roller shutters.



## Decorative semicircular caps

Mounted onto guide rails for smoothness effect and harmonious look of roller shutter systems with round and half-rounded shutter boxes.



Powder coated guide rails are delivered with PVC or brushinserts crimped into the guides. Moreover the brush inserts guarantee additional noise insulation and dust protection.

INTELLIGENT SOLUTIONS  
FOR A COMFORTABLE LIFE



## Roller shutter operating systems

The choice of the operating systems depends on several factors: motorised or manual operation, weight and size of roller shutter curtain and personal choice.

### Automated roller shutter operation

A wide range of automatic devices for the operation of roller shutters allowing easy operation.

#### **Wired Systems**

This is a simple and reliable system for the operation of roller shutters with the help of a wall-mounted switch or an electronic key switch. This provides improved safety and reduces installation time.

#### **Radio remote control systems**

Operation of roller shutters by remote control. A range of devices includes mini-transmitters (key chain remote controls), portable multi-channel remotes with additional wall mounting clips, wall mounted remotes with programmed timer to set time for closing/opening of shutters.

##### **Group control**

- Save time on opening/closing of each roller shutter. The remote allows the user to control one shutter only, or a group of shutters in the room or in the whole house.

##### **Automatic triggering**

- Remote-timer or light sensor provide automatic shutter closing at night and opening in the morning.

##### **Quick control**

- Mini-transmitter on a key chain with keys enables to quickly close shutters directly from the car upon departure.

USER-FRIENDLY  
AND EASY TO OPERATE



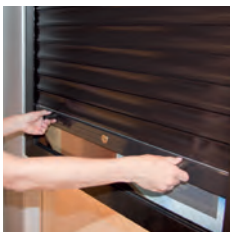


## ALUTECH hand operators

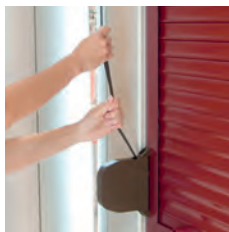
Hand operators are an ideal solution for rooms with closely grouped small shutters. It is a good solution for small villas, country houses or small offices.

Our wide range of ALUTECH hand operators includes:

- a strap operator (lifting capacity up to 15 kg)
- a rope operator (lifting capacity up to 15 kg)
- a rope gear operator (lifting capacity up to 20kg)
- a crank operator (lifting capacity up to 35 kg)
- a cord operator (lifting capacity up to 80 kg)
- an assist and push-up spring (lifting capacity up to 80 kg)



Assist and push-up spring



Strap operator



Rope gear operator



Crank operator

WE TAKE CARE OF YOU  
AND YOUR FAMILY



## ALUTECH locking systems

Taking into account your wishes and requirements to security and functionality we offer several options of locking roller shutter systems.

### Hand operated key lock.

Roller Shutters can be locked from both inside or out by using a key, or from inside only with the use of a key lock.

### Automatic locking devices

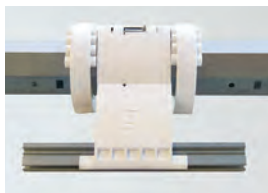
Automatic locking devices secure the roller shutter curtain in closed position.

### Security lock. Retainer profile

The key lock device provides manual security and with the security lock you have automatic locking of roller shutters when used with crank rod operator or electric motor.



**Key lock**



**Security lock**



Please contact our commercial representatives who will help you to choose the appropriate locking device

# ROLLER SHUTTER COLOUR SOLUTIONS

A wide colour range of profiles and components for ALUTECH roller shutters includes more than **20 colours** and make possible diverse combinations between the roller shutters and building facade. Depending on colour selections roller shutter systems can either match the facade or serve as a contrasting element creating an original and unique solution.



**01**  
White



**31**  
Pearl white



**33**  
White grey



**03**  
Grey



**08**  
Silver



**21**  
Cream



**23**  
Light ivory



**04**  
Beige



**24**  
Dark-beige



**20**  
Yellow



**07**  
Purple red



**36**  
Pastel blue



**26**  
Dark blue

# STEP 7

Advantages of ALUTECH roller shutter coating:

- High abrasion and scratch resistant
- High resistance to flaking and degradation
- UV resistant
- Corrosion resistant, very important requirement for coastal and urban areas



**25**  
Green moss



**15**  
Green fir



**29**  
Bronze



**02**  
Brown



**22**  
Dark brown



**49**  
Black cherry



**39**  
Irish oak



**19**  
Golden oak



**59**  
Nut



**13**  
Anthracite



**83**  
Graphite



**10**  
Black



Colours shown here are approximate and may vary slightly from the actual colour spectrum

# DOUBLE PROTECTION FOR YOUR HOME



Along with traditional protective function, roller shutters with insect screen prevent mosquitoes, flies and other insects from penetrating into the house, they are also an excellent barrier for poplar seed tufts which is very important for asthmatic and allergic individuals. There is no need to remove the in-built insect screen for winter period and store it separately. Unlike the system of a frame type, it perfectly hides inside the shutter box when rolled up.



## Roller shutter systems with in-built insect screen

### **Comfort**

Thanks to the insect screen your living close to a water basin or within a forest area will be pleasant and healthy. You will be able to enjoy fresh air all 24 hours a day, and no insect will be able to disturb you.

### **Double protection effect**

In hot days half-closed roller shutters will darken the room and save from overheating, and the insect screen will protect from annoying flies and bees.

### **Economy**

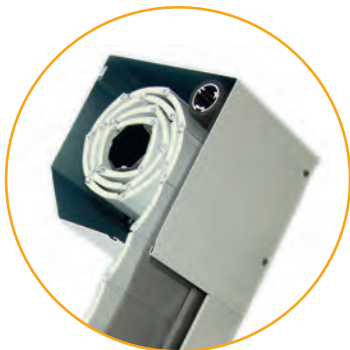
Convenient and practical solution in one common shutter box which is cheaper than two independent systems (insect screen system plus roller shutter system).

### **Handy mounting**

Mounting of a roller shutter with in-built insect screen does not differ from mounting of a usual roller shutter and takes less time as compared with two separate systems.

### **Compact size**

insect screen for winter period and store it separately. Unlike the system of a frame type, it perfectly hides inside the shutter box when rolled up.







**Certificate ISO 9001 : 2008** (TÜV Rheinland InterCert, Brussels) confirms high quality of the works in designing, development, production, installation and service of ALUTECH roller shutter systems.

**CE Certificates on ALUTECH roller shutters** (TÜV SÜD Czech, the Czech Republic) confirm its compliance with the requirements of Directive of the European Union No 89/106/EEC and EN 13659: 2004 in the field of security and wind resistance.

**QUALICOAT Certificate** (Zurich, Switzerland) confirms high quality of the profiles and its environmentally friendliness and compliance of ALUTECH extruded profiles' coating to the European standards.

**SEASIDE Certificate** (Attachment to Qualicoat Certificate) confirms corrosion resistance of ALUTECH extruded profiles' coating.

**QUALANOD Certificate** (Zurich, Switzerland) confirms high quality of ALUTECH anodized extruded profile coatings.

**Test report of BASF Coating GmbH** (Germany) and **AkzoNobel** (Sweden) testify excellent coating quality of the aluminium lath used to produce ALUTECH profiles and shutter boxes.





**ALUTECH Group of Companies is one of the leaders of the roller shutter system and sectional door markets of Western and Eastern Europe and the leading manufacturer of aluminium profile systems in the CIS countries. ALUTECH Group of Companies consists of 5 manufacturing enterprises and over 20 sales companies.**

All the enterprises of the Group of Companies are equipped with high technology equipment and its production conforms to the European quality standards.

90% of the roller shutter system components are produced by the enterprises of the Group of Companies. Being a leader of roller shutter system production, we offer a wide range of profiles and components – more than 10 thousands units.

Today ALUTECH roller shutters are supplied to the CIS countries, the Baltic States, Germany, Great Britain, Austria, the Netherlands, Czech Republic and other countries of Western and Eastern Europe. ALUTECH roller shutters have been installed in millions of buildings in 65 countries of the world.

ALUTECH realizes the genuine need for quality, the eye pleasing aesthetics that is worth of you and your home. That is exactly what we bring to you today, with comfort and safety for you and your family.

