



## *ALUvis sectional overhead doors*

A product of ENVISAGE SYSTEMS Pty Ltd



## ***All-in-one design:***

***Modern door concept - high quality - optimum performance -  
extensive range of colours - perfect match for all building designs***



Designed and manufactured using the most modern techniques available, the ALU range of sectional overhead doors provides an almost completely transparent barrier between the inside and outside of a building. The ideal solution for situations in which maximum natural light levels and excellent vision are key considerations.

ALU doors are robustly constructed, well-dimensioned and very stylish in appearance. The door design uses aluminium profiles for the individual panels and strengthening braces. ALU sectional overhead doors are made to measure for a perfect fit in the opening.

All these characteristics combine to make the ALU sectional overhead door a high-quality, hard-wearing product that not only improves the appearance of a building but also saves energy and reduces maintenance bills. Easy to integrate into modern architectural designs and fully compliant with the most recent technical requirements in terms of safety and ease of use. ALU sectional overhead doors can be ordered with either manual or electric operation and are available with a closed or fully transparent bottom section.



# High-tech production and handling

## Effective, sustainable solutions



As a leading manufacturer of industrial doors, we have been actively involved in developing and manufacturing glazed sectional doors for many years. Our current range of ALU sectional overhead doors is acknowledged by many as among the best the industry offers in terms of design and ease of application.

Automatic machines manufacture the ALU door panels and track systems to customer-specified dimensions in an ultra-modern

production facility. The spring assemblies are assembled in-house. Other components are manufactured by specialised subcontractors using production tooling that is wholly owned by the manufacturer. All the components that constitute the final door package come together at a predefined location in our warehouse. Ready for delivery.

We are one of the largest European manufacturers of insulated and glazed sectional overhead doors.

We also offer garage doors to similar designs. All our doors are supplied with TÜV NORD certification. The ALU sectional overhead door range is supported by an extensive and highly detailed sales and installation documentation package.





# Safety and certification:

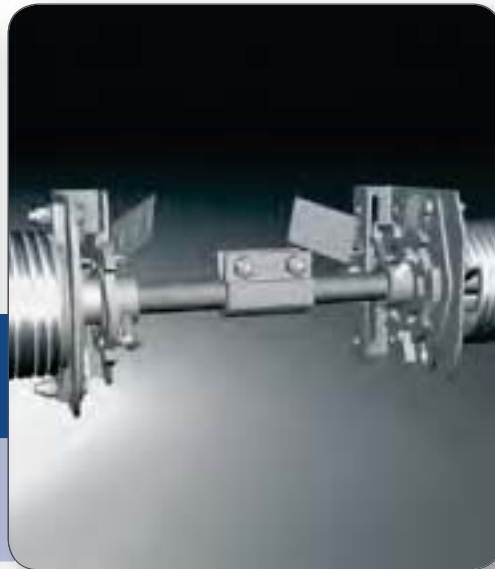
## The standard for the future fully compliant with the EN13241-1 norm

Safety of operation and application play a key role at the design stage. ALU sectional overhead doors may optionally\* be fitted with:

- a spring-break safety
  - tracks designed to keep the rollers securely in place and prevent accidental injury to fingers and hands
  - a load-related safety mechanism that prevents the door dropping like a guillotine in the event of cable or spring breakage
  - a torsion-spring door balance system that compensates for the door weight
- throughout the opening cycle for maximum ease of operation when operating the door manually
  - a cable guide system that keeps the cables inside the tracks to minimise the risk of injury
  - an obstacle detection system on the closing face of the door. Door movement is arrested as soon as an obstacle is detected
  - easy-open manual operation or convenient-to-use electric drives

All ALU sectional overhead doors are certified by TÜV NORD.

As you would expect, our ALU sectional overhead doors have also been subjected to demanding endurance tests. The test doors were operated for 30,000 cycles before being evaluated by expert engineers.



\*Some of the safety devices listed here are available as extra-cost options. Every door we manufacture complies with the EN13241-1 norm.

# EBS ALUvis sections

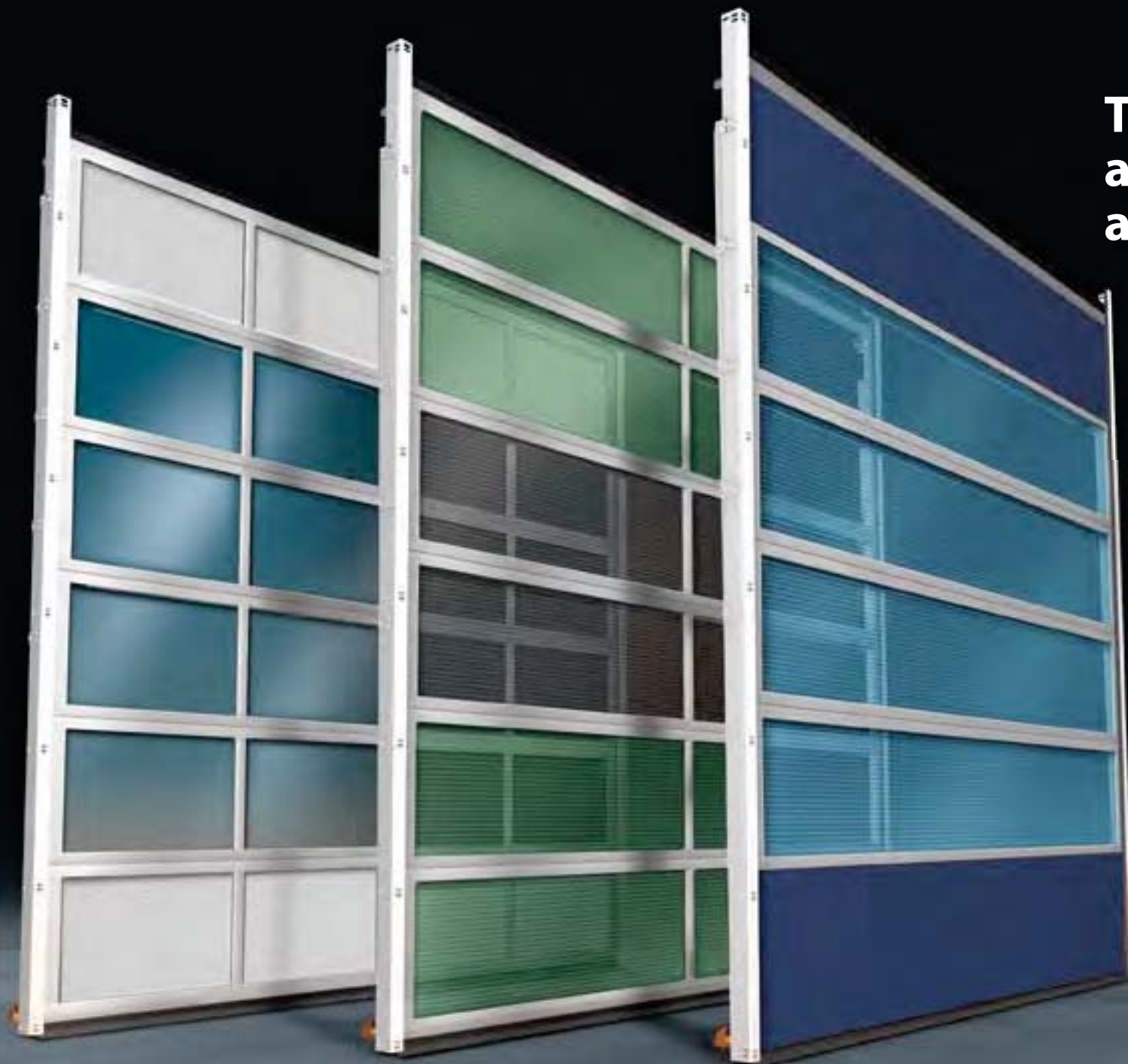
## A refined combination of the highest material quality and multiple styling options

ALU sectional doors are constructed from multiple sections to form the door leaf. Specially dimensioned aluminium profiles are used to create a framework that can accept a variety of infill materials.

There are almost no styling and specification limitations as the range of panel infill options offered includes translucent or opaque, partitioned or non-partitioned, tinted or transparent, insulated or with ventilation openings.

A wide variety of materials and designs are available to suit specific customer and application requirements. Some examples from our range are shown here.....

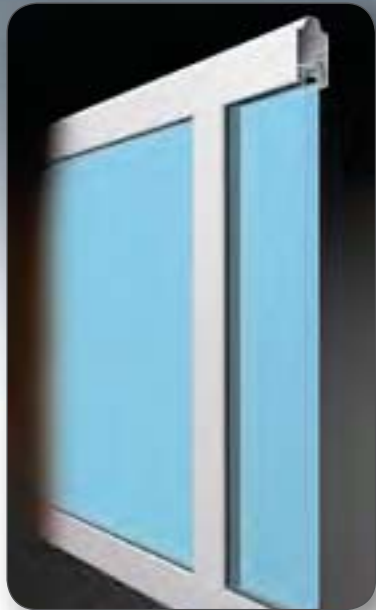




**The unique  
appearance of  
an EBS door:**

**strong,  
high quality,  
durable,  
attractively styled...**





The transparent window panes we use are made of acrylic or polycarbonate. These materials have a higher degree of transparency and are much more resistant to scratching than styrene acrylonitrile (SAN), which is a commonly used material.

Polycarbonate and acrylic transparent panels are available in single pane and double glazed configuration. In the double glazed polycarbonate/acrylic configuration, the polycarbonate pane is placed on the outside because of its high impact resistance.

EBS doors set new industry standards with innovative 5-pane polycarbonate glazing. In addition to an excellent U-value of 1.7 W/m<sup>2</sup>K, this material

offers outstanding impact resistance, high flexural strength and excellent dimensional stability. Five attractive colours make it easy to create a suitable colour combination for all types of façade cladding.

The gap between the window pane and the frame is sealed by a rubber profile with a multistrand cord core. This system maintains an effective seal even after years of use.

The benefits of our acrylic glazing are explained in greater detail elsewhere in this brochure.



**Colourless,**  
Translucence 63%



**Opal,**  
Translucence 42%



**Titan Grey,**  
Translucence 5%



**Pacific Blue,**  
Translucence 38%



**Petrol Green,**  
Translucence 50%







The aluminium sections are supplied with a high quality anodised finish as standard. The profiles and perforated/non-perforated infill materials can be supplied with a stove-enamelled acrylic paint finish. Customers can choose from an extensive range of RAL colours. Sections without partitions are manufactured from sandwich panels. This panel design features an HCFC-free high-density polyurethane core that is sandwiched between two galvanised steel sheets.

Damage to the bottom section in this configuration can be repaired more cost-effectively than doors that feature a bottom section equipped with insulated stucco-embossed infill panels. This type of ALU sectional overhead door also offers excellent sound-deadening and thermal insulation performance and is highly resistant to the effects of the weather.

The outer face of the panel is microprofiled as standard. ALU sectional overhead doors incorporating the microprofiled section design have visual qualities that blend in perfectly with modern industrial architecture. ALU sectional overhead doors featuring sections without partitions are the most attractively priced solutions and also offer the strongest structural configuration.



## Colour range

The right colour for every architectural requirement



The aluminium sections for the ALU sectional overhead door are supplied with a silver-anodised finish as standard.

This very attractive, low-maintenance finish is corrosion-resistant and has excellent weathering properties. However, as you would expect, our ALU sectional overhead doors can also be painted to suit individual corporate colour schemes.

When ordered with ISO microprofiled panels, the ALU sectional overhead door is available in 11 standard RAL colours (our standard colour range).

The ALU sectional overhead doors can also be supplied in a wide variety of RAL colours at extra cost.

Colours that are not available in the RAL system can also be made to order if a colour sample is available.





# Wicket doors and side doors

## Separating the passage of goods and personnel traffic

A wicket door is incorporated in the main sectional overhead door. However, if there is enough room available, a separate side door can be installed to the side of the main door in a permanent door frame. The wicket door or side door avoids unnecessary operation of the main sectional door.

Integral wicket doors, which always open outwards and are fitted with automatic door

closers, are supplied either in DIN-left or DIN-right configuration.

Side doors are also supplied either in DIN-left or DIN-right configuration, can open either outward or inward and are fitted with an automatic door closer. When an electric drive is fitted, the main ALU sectional overhead door may only be operated if the integral wicket door is securely closed.

If at all possible, provision for an adequately dimensioned door opening (for the main door and a side door) or extra pass doors should be made during the initial stages of the building design.

A separate side door is the preferred solution in terms of structural integrity and maximum safety.

The ALU sectional overhead door without an integral wicket door offers the best structural strength.

The dimensions of the ALU sectional overhead door determine the dimensions of the integral pass door.



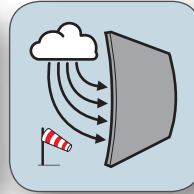
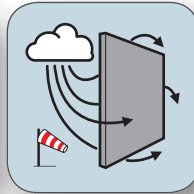
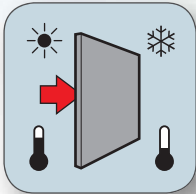
# Resistance to weathering

## Suitable for all climates

ALU sectional overhead doors are constructed from section frame profiles and strengthening braces\* that are made of anodised aluminium. The stability and corrosion-resistance of this type of construction make the ALU sectional overhead door design hard-wearing and durable.

\*The use of strengthening braces depends on the door configuration and is determined by the manufacturer's build parameters.

The type and shape of the materials used to seal around the periphery of the door prevent rainwater and draughts entering through the clearance gap between the door leaf and the opening support structure.









## Door leaf finish and hardware

Quality and attention to detail make all the difference

The door leaf of the ALU sectional overhead door is manufactured and finished to the highest quality standards in order to achieve maximum durability.

The anodised aluminium profiles are robustly dimensioned and accurately cut to form perfect joints.

The seals around the door are made of permanently elastic rubber and are UV-resistant. They have been specifically designed to create a perfectly draught-free and water-tight seal in the clearance gap between the

door leaf and the opening support structure. The side hinges, which also act as fully adjustable roller carriers, help guide the door leaf accurately and keep noise to a minimum.

Strong, galvanised steel fasteners are used to assemble all the various components.

The window material for the vision panels has been selected on the basis of durability rather than low cost. The window panes are made of two acrylic sheets with an intermediate air gap of 15 mm. The acrylic sheet material is

2.5 mm thick. Recent tests performed by TÜV Rheinland to EN 530 procedure 2 indicate that our design of acrylic window maintains excellent transparency (classification 4\*) even after repeated cleaning at a relatively high hand pressure (12 kPa).

This performance substantially exceeded that of the SAN window, which only achieved classification 2\*\* under the same conditions. These results simply confirm that the ALU sectional overhead door is synonymous with high quality in every aspect.



Acrylic (4\*)



San (2\*\*)

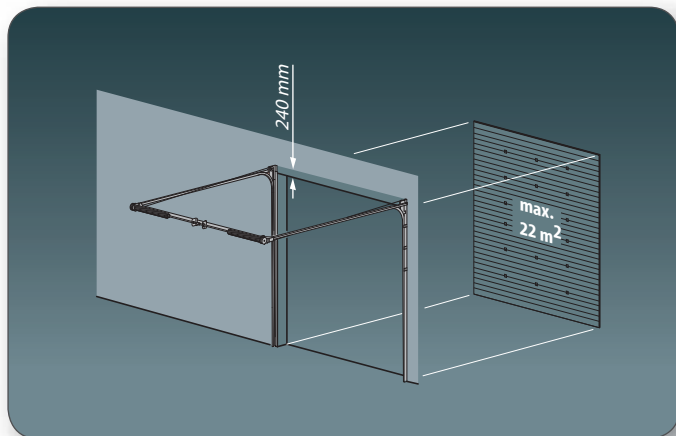
\*Classification 4:  
slight scratching, good transparency, no visible scratches when viewed from a distance of 1 metre or more.

\*\*Classification 2:  
significant scratching, opalescent in appearance when viewed from close quarters.

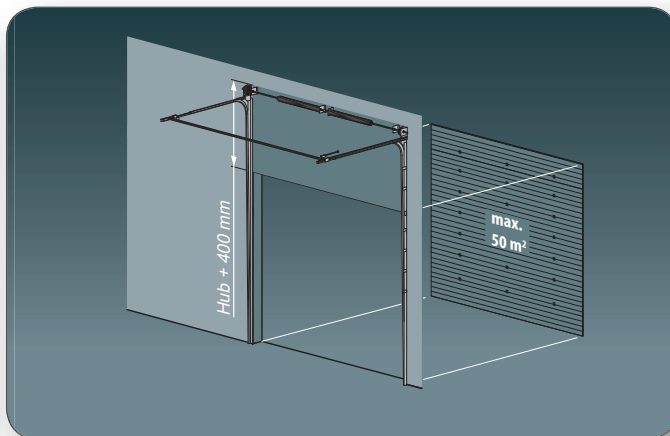
# Door leaf finish and hardware

Quality and attention to detail make all the difference

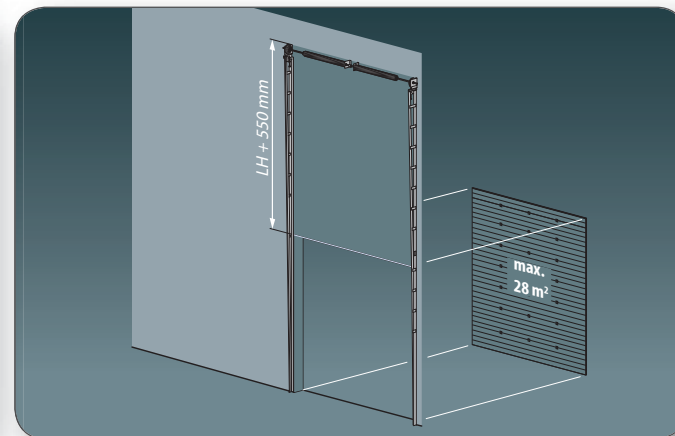




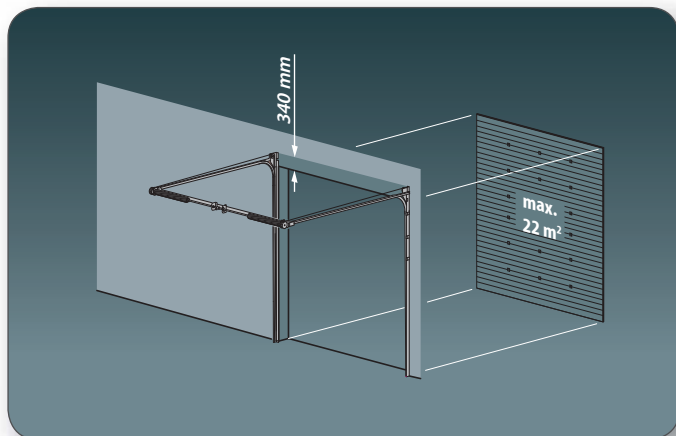
**Track system T 240**



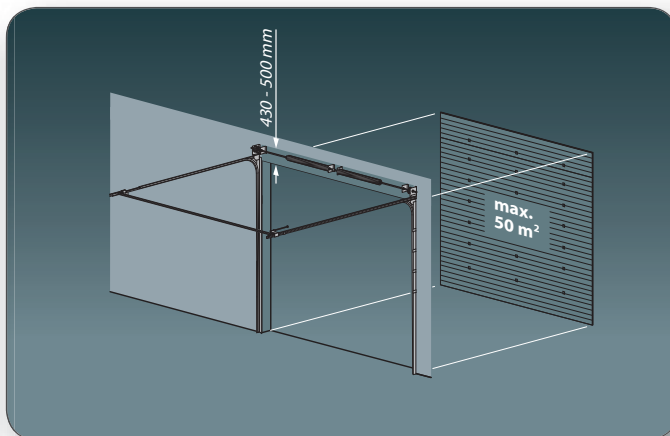
**Track system T 400**



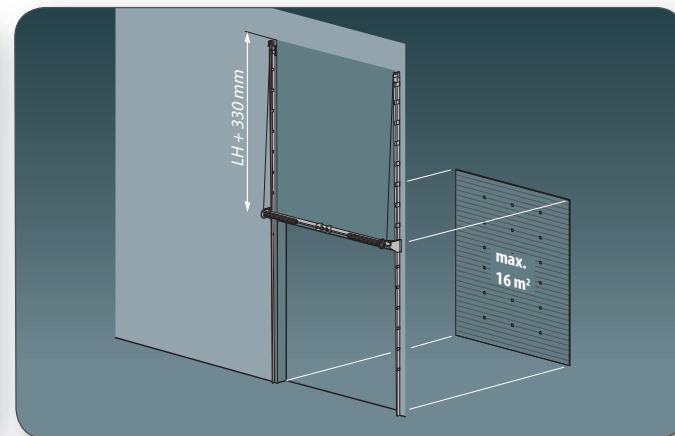
**Track system T 500**



**Track system T 340**



**Track system T 450**



**Track system T 500hF**





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