

Sectional door

Fast insulated industrial door

40 mm thick panels

Wind- and waterproof connection between the sections

Aluminium profiles and glazing beads

Withstands high wind loads due to reinforcing profiles (optional)

ALU 40



Comprehensive range in filling options

Safety tracks

Standard and Heavy-duty frame available



ALU 40 mm

When natural light and visibility matter

Properties

- max. B x H = 8000 x 6000 mm, max. surface area (BxH) = 48 m²
- U-value ALU 40 mm sectional door: 5000x5000 mm: 3,87 W/m²K
- wind load resistance class 3-4 according to EN 12424, or up to 12-13 Beaufort (118 - 149 km/h)
- the large variety in panel fillings offers plenty of panel design and application possibilities
- manual or electrically operated
- integrated wicket door available
- EN13241-1 compliant



ALU 40 mm

In industrial environments where light and clear views are important, the Alpha ALU 40 mm sectional proves its strength. The door leaf of the ALU door consists of several sections. By applying specially sized aluminum profiles frame structures are manufactured with an extensive range of infill materials. Combine windows with aluminum cassette panels and choose translucent, colored, insulating or air permeable.

Dimensions	
max. width (W)	8000 mm
max. height (H)	6000 mm
max. surface area	48 m ²
section thickness	40 mm
μ value at	3,87 W/m ² K

Components and construction

The ALU 40 mm sectional door consists of horizontal panels that roll on a rail system under the ceiling. Torsion springs balance the door's weight, making manual operation possible. In addition to standard lift, extra lift, vertical lift, roof slope lift and low lift is available.

Materials

- door sections constructed of silver anodized aluminum profiles which can be provided with a wide variety of glass and fill types
- total panel thickness 40 mm
- rails made of Sendzimir galvanized steel
- central hinges in galvanized steel
- door fittings in galvanized steel
- rollers with nylon wheels and chromed 11 mm shaft
- steel cables with sixfold safety
- plastic handle and foot bowl in the bottom section of manually operated doors
- top, side and bottom seal of insulating material
- seal between the panels of insulating material

Surface treatment

- the aluminum profiles and glazing beads are clear anodized, but can be provided with a color coating as well¹⁾
- the windows and panels can be delivered in a variety of finishes and colors. See the brochure for all possibilities¹⁾

Window and panel options

- many types of synthetic glazing available, each with different light transmitting and insulating properties
- polycarbonate 5 chamber multiwall sheets also available in 5 colors
- or air permeable perforated ALU sheet fillings in 2 versions
- double-walled sealed sandwich fillings in multiple finishes and in standard or RAL colors are also available¹⁾

Drive

Manual control with cord or chain reel, or an electric motor with reduction gear. The control unit is available as standard with dead-man's control, pulse control or remote control.

Technical details electric drive

- power:..... 1N-230V-PE / 3-230V-PE / 3N-400V-PE / 3-400V-PE
- powerfrequency: 50 / 60Hz
- degree of protection IP54

Protection

- emergency hand chain hoist at operating height
- spring break protection
- anti lift protection
- according to EN 13241-1

Control and operation

- control voltage:..... 24Vdc
- mains supply external devices:..... 24Vdc (350mA) / 230Vac (1,6A)
- status and information display (including 6 most-recent faults)
- maintenance-cycle counter
- force monitoring in OPEN direction: sudden changes to the counterbalancing are detected. Self-learning feature and consequently no activation of force monitoring function due to, e.g., a change in spring tension
- automatic detection of direct inverter (DI) or frequency inverter (FI). Setting of output speed, soft start, soft stop, braking ramps, etc. is possible

Other forms of operation that can be connected to the standard control box:

- operation by pull switch, key-operated switch, push-button, photocell, radar, induction loop detection or remote control



Available controls:

TS971, TS981

Structural provisions and connection (by others)

- separate technical data sheets detailing dimensional and structural requirements are available for all designs and track systems
- if an electric motor is specified, a CEE plug socket must be installed within 1 m of where the control unit will be positioned (1N-230V-PE / 3-230V-PE / 3N-400V-PE / 3-400V-PE by others)
- with standard CEE-plug, the control box is IP54 compliant

Options / accessories¹⁾

Control and operation

- fast version (with frequency control)
- additional controls as described above available at surcharge
- control box directly wired (control box IP65)
- main switch directly wired on the control box (IP65)

Protection

- leading photocell (without wiring at door)
- cable break protection
- anti lift protection
- connection of traffic lights (red/green or red and green)
- warning flash light (orange or red)
- heavy shoot bolt with spring return
- outside locking cylinder

Construction

- integrated, outward opening wicket door with closer and cylinder lock (max. Opening width 6000 mm)
- separate 'wicket door', next to the ALU door
- customer-specified RAL coating on inside and/or outside of the sections (with the exception of fluorescent and traffic colours)
- adjusted wind restriction
- 30.000 or 60.000 cycle springs

¹⁾ subject to surcharge



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