

Tender specification text

Product: Aluminium sliding/folding door
thermally separated
Type: AL603SF electric
Manufacturer: SCHNEIDER
Technical design in accordance with the applicable standards and regulations for the protection of employees.
Data given in the description are minimum requirements.

Area of application:

Door for industry and workshops, especially large doors. An accurately designed door for every requirement. A solid sliding/folding door contains virtually no wear parts so there are minimal maintenance and servicing costs.

Cycles per day: approx. 50

Water tightness (EN 12425) Class 0-3

Air tightness (EN 12426) Class 0-3

Resistance to wind load (EN 12424) Class 2-5

U value approx. 1.8 W/m²K

(depending on the door infill)

Operation: with electric drive

General design:

Aluminium folding door in frame-rung construction, with thermally separated profiles. Door leaf comprising bolted extruded hard-aluminium profiles

Construction depth min. 60 mm, profile depth min. 87 mm

Filling with dual-wall construction elements (panels or glass).

Running rail produced from hot-dip galvanised steel profile with downward opening, 3.6 mm wall thickness, dimensions 85 x 125 mm; 6.3 kg/m with bolted seal carrier to partially cover the steel running rail (aluminium cover profile) with continuous sealing lip. Suspension of the door leaves by horizontal and vertical guided roller units. Plastic-covered track roller diameter 59 mm, Ø 59 mm per 2 track rollers for horizontal and vertical guide. Dust-proof, maintenance-free ball bearings. Lateral panels for deflection of the door leaves, by means of deflection brackets mounted on the door leaf, each with 3 pcs. ball bearings as guide roller. The parallel running U-guide rail guides the door leaf out of the baffles in a linear movement. Recessed hot-dip galvanised forklift rail (trafficable), with drainage connection piece for on-site drainage.

Hinges 120 mm high, bolted to the frame by means of clamping plates (adjustable and exchangeable) with 20 mm stainless steel bolts and a dust-sealed thrust bearing between the hinged hinges.

Hinged belts can be relubricated by means of grease nipples.

Fixing of the panels with aluminium holding strips inside A6/CO anodised which are fixed in a groove provided on the frame by means of a rubber seal.

Frame:

Wall thickness of the profiles at least 3 mm aluminium.

Two separate extruded aluminium profiles, connected by a glass fibre reinforced plastic web. The heat flow from inside to outside is thus significantly reduced, but the overall stability of the construction is not affected. Profiles are connected to a frame element by means of solid corner connectors (no welded joints). Sealing and finger trap protection between the leaves with 50 mm leaf spacing made of EPDM material (PVC not permitted).

Infill:

Standard division up to 3200 mm 1 panel/leaf.

Double-walled, insulated sandwich panel.

Consisting of 1 mm hot-dip galvanised sheet steel on the outside and inside, fully bonded with 40 mm hard foam polystyrene (total thickness 42mm).

Glazing with insulating hard glass (safety glass) H4/16/ H4 with a U-value of 1.1 W/m²K.

Dry glazing (without silicone) inside with aluminium retaining strips A6/CO anodised with EPDM clamping rubber (different glass infills are possible on request).

Max. 2 m² glass panels. Fully glazed doors max. 4200 mm door height.

Surface:

Standard: A6/CO anodised

Optional: Powder-coated in façade quality RAL standard colour of your choice, optionally matt or glossy

Anodising: = anodic oxidation of aluminium. In this electrochemical process, the natural oxide layer of the aluminium is reinforced and the metallic character is retained. Frame, filling and pole profile can be coated in different colours without extra charge.

6 years warranty on the surface with appropriate care.

Powder coating: Here, after appropriate pre-treatment, an organic powder coating with an average thickness of 65 my is applied. The coating is cured in a drying oven.

Frame:

Lateral frame profile without thermal separation made of an extruded aluminium profile (60 x75; 3.3kg/rm) in the colour of the door on the door entry side. Seal stop on the opposite side. The frame profile is attached to the running rail profile with a bolted connection. Floor guide with ball bearing floor rollers.

Mounting:

Complete mechanical assembly incl. possibly required hoists or crane. Including sealing to the mounting surface by means of compriband, but without connection sheeting or jointing.

Size:

Mounting in front/in/behind the reveal:

Outer frame height (max. 15.6 m):mm

Outer frame height (max. 5.6 m):mm

Leaf total (max. leaf width 1300 mm)

Leaf arrangement: +

Fields per leaf:

Number of fields with panel infill:

Outer panels: A6/C0 anodised

Inner panels: A6/C0 anodised

Number of fields with glazing:

Frame transom profiles:

Running rail: 90° opening

Ground detail: Galvanised floor guide

Labour EUR

Miscellaneous EUR

ST Unit price EUR EUR.....

Special version:

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Labour EUR

Miscellaneous EUR

ST Unit price EUR EUR.....

Door in the sliding/folding door leaf:

Pedestrian door built into sliding/folding door
Profiles of the door as for the sliding door
Ground sill profile max. 40 mm
(special version with 10 mm possible)
Door closer Dorma TS 92 with opening limiter
Handle/flat lever handle made of anodised aluminium
Panic lock pusher/pusher, function B
Panic lock pusher/fixed knob, function

Labour	EUR	
Miscellaneous	<u>EUR</u>	
ST Unit price	EUR	EUR.....

**Special stainless steel version
(washing boxes, sewage treatment plants, salt storage):**

Screwed connections and
mounting bracket in stainless steel V4A

Labour	EUR	
Miscellaneous	<u>EUR</u>	
ST Unit price	EUR	EUR.....

POWER-SF sliding/folding door drive:

Electromechanical sliding folding door drive
Worm gear geared motor with integrated frequency converter
mounted on the deflector panel. An HTD 8M toothed belt
system 20 mm thick, is tensioned like a linear rack parallel to
the running rail in an additional running rail and is steered by a
toothed belt pulley mounted on the drive. The ball bearing
mounted carrier connected to the toothed belt is fixed to the
door leaf and is guided in the additional running rail. The open
and closed door position can be optimally adjusted using the
digital limit switches.
Manual emergency operation by means of a disengaging
coupling

Motor data: IP 65, 50-60 Hz, 10-80 rpm, 0,85 kW, 400 V
Opening speed: v = max. 240 mm/sec.

Controls: Dead man CLOSED / Dead man OPEN
Housing with IP54 protection, contact protection by covering of
live parts, integrated OPEN-STOP-CLOSE button, with CEE
plug and 1-m cable, setting via rotary selector and 7-segment
display, status and information display, cycle counter,
programmable relay contact, maintenance cycle counter.
Including cabling at the gate and commissioning.
Electrical main connection on site.
Incl. initial technical acceptance by civil engineer and defect-
free inspection book.

Labour	EUR.....
Miscellaneous	<u>EUR.....</u>

ST Unit price EUR.....
EUR.....

Automatic closure surcharge:

Opening and closing in self-retaining mode, partial opening possible, with 2 leaves packages (left+right) can be operated individually, safety edge on the main closing edge and secondary closing edge, light barrier transmitter-receiver. Installation of the light barrier on one side 0.4 m for cars and 1.0 m for trucks . Automatic closing, cancellation of the open time after passage. 2 pcs. red traffic lights with LED luminaries for inside and outside incl. cabling. No power cut-off, endangered areas must be additionally insulated

Labour EUR
Miscellaneous EUR

ST Unit price EUR EUR.....

Automatic closure surcharge: PLC

PLC control in housing protection class IP65, integrated push-button OPEN-STOP-CLOSE, with main switch,

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Labour EUR
Miscellaneous EUR

ST Unit price EUR EUR.....

Radio board:

Radio board integrated in the control system

Labour EUR.....
Miscellaneous EUR.....

ST Unit price EUR.....
EUR.....

Handheld transmitter:

Handheld transmitter 4 channel

Labour EUR.....
Miscellaneous EUR.....

ST Unit price EUR.....
EUR.....