

## **Tender specification text**

**Product:** Steel sliding/folding door  
**Type:** ST602SF 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. 3 W/m<sup>2</sup>K (depending on the door infill).

Operation: with electric drive

### **General design:**

Fully functional steel sliding/folding door in self-supporting frame construction, door leaf consisting of hot-dip galvanised steel profiles (Strip galvanizing according to EN 10346) with powder-coated surface. Construction depth min. 60 mm, profile depth min. 95 mm; Filling with dual-wall construction elements (panels or glass).

Running rail produced from hot-dip galvanised steel profile (Strip galvanizing according to EN 10346) with powder-coated surface and 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 profiles min. 2 mm hot-dip galvanised steel (strip galvanizing according to EN 10346) with powder-coated surface.

Profiles mitred and joined by brazing. Profiles must not be welded in the visible area, as there is an increased risk of corrosion due to the burning of the zinc.

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 (strip galvanizing according to EN 10346) with powder-coated surface on the outside and inside, fully bonded with 40 mm hard foam polystyrene (total thickness 42 mm).

Glazing with insulating hard glass (safety glass) min. H4/19/H4 with a U-value of 1.1 W/m<sup>2</sup>K. Dry glazing (without silicone) with aluminium holding strips A6/CO anodised, with EPDM clamping rubber on both sides (different glass infills are possible on request).

Max. 4 m<sup>2</sup> glass panels.

**Surface:**

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

After appropriate pre-treatment, an organic powder coating is applied. The coating is cured in a drying oven.

Frame, filling and pole profile can be coated in different colours without extra charge.

The combination of galvanized base material with powder-coated surface corresponds to corrosivity category C4 according to EN ISO 12944-2.

**Frame:**

Lateral frame profile made of steel (60 x 75; 5.5kg/m<sup>2</sup>) hot-dip galvanised (strip galvanising according to EN 10346) an powder-coated 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. 7 m): ..... mm

Leaf total (max. leaf width 1300 mm)

Leaf arrangement: ..... + .....

Fields per leaf: .....

Number of fields with panel infill: .....

Outer panels: smooth zinc-plated

Inner panels: smooth zinc-plated

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:**

Built-in pedestrian 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 E

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, termination 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.....