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## Tender Description

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### **Quick Folding Gate (QFG) PU30**

Single leaf Quick Folding Gate with gate leaf, drive post, receiving post, arrestor system, electro-mechanical drive and control unit.

#### **DIMENSIONS:**

Clear Width (CW):

from 2000 - 4000 mm in 500 mm increments

Distance between posts: CW + 400 mm

Gate height (incl. 100 mm ground clearance): 2050 mm,  
2550 mm or 3050 mm

Foundation depth: 900 mm

Foundation top edge: 200 mm below finished floor level

#### **KINETIC IMPACT ENERGY/CERTIFICATION:**

222 kJ (2500 kg @ 48 km/h)

Certified according to PAS 68:2013 V/2500[N1G]/48/90/1.2/0.0 and

IWA 14-1: 2013 V/2500[N1G]/48/90/1.3

#### **OPENING DIRECTION VIEWED FROM THE OUTSIDE:**

Left hand, opening inwards or right hand, opening inwards

#### **OPENING ANGLE:**

90° maximum opening

#### **GATE LEAF:**

Gate leaf frame made of square hollow section SHS 100x5 (inner/leading gate leaf) and SHS 100x4 (outer/trailing gate leaf) respectively.

#### **GATE INFILL:**

Bar infill made of square hollow section SHS 30 with a clear distance of max. 120 mm.

#### **ANTI-CLIMBING DEVICE (OPTIONAL):**

Serrated top rail or steel spikes D18, 100 mm long, centre distance max. 80 mm (steel spikes from 2550 mm gate height)

#### **GATE POSTS:**

Drive and receiving post made of square hollow section SHS 260x10 complete with welded-on top plate and base plate to bolt onto foundation 200 mm below finished floor level.

Optional: Post(s) fitted with fence connection system

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### **GATE LOCKING:**

Locking via drive system, mechanical locking device consisting of gate reception fork on receiving post and infeed rollers on gate leaf as well as active locking of the arrestor system in the closed position  
Locking / release time: approx. 3 sec

### **ARRESTOR SYSTEM:**

Arrestor system consisting of rope system, cover panels, rope fastener, articulated rope joint between gate leaves, clamp(s) on drive post, receiving post and front side rail of trailing gate leaf, active locking via actuator and tension rods with anchorage to concrete in

### **OPERATING SPEED:**

up to 0.5 m/s (depending on CW)

### **DRIVE UNIT:**

Drive unit system consisting of gearbox, motor, base plate, drive pulley, drive belt, drive arm, manual release, limit switches, limit switch cams and drive unit cover  
Motor: 0.37 kW, 3~ 120 V Δ, 60 Hz

### **EMERGENCY OPERATION DURING POWER FAILURE:**

Manual operation following removal of padlock and release of drive arm as well as unlocking of locking bolt / arrestor system

### **CONTROL UNIT:**

Control unit WE-Tronic II complete with frequency converter  
0.75 kW in control box HxWxD=600x400x210 mm, prepared for automatic functions, control voltage 24 V DC.

### **CONTROL BOX:**

Fitted with rain cover and mounted to drive post  
Optional: for wall installation inside a building, max. distance 50 m  
Optional: installed in separate outdoor cabinet  
HxWxD=1200x600x400 mm incl. 200 mm high socket,  
max. distance 50 m

### **SUPPLY VOLTAGE:**

120 V (1Ph + N + PE), 60 Hz

### **CONTROL DEVICE:**

1 no. key switch "Open-Stop-Close" in drive or receiving post

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### **SAFETY DEVICES:**

Safety edges to stop and reverse the gate by approx. 10 cm in opposite direction on contact.

3 nos. horizontal safety edges on bottom rails

1 no. vertical safety edge on front side stile

Light beam between drive post and receiving post at car and HGV height as well as in separate light beam posts on the side of the folded gate leaf at car height

1 no. active infrared presence detector (for Quick Folding Gate (QFG) with 2050 mm gate height)

### **SAFETY STANDARDS:**

Type-tested by UL

### **CONTROL DEVICES (OPTIONAL):**

Induction loops, additional light beam in light beam posts at HGV height, additional key switch OPEN / CLOSE / STOP, key switch OPEN / CLOSE / EMERGENCY STOP, key switch ON / OFF for automatic closing etc., key switch fire brigade, remote control with hand held transmitter, table top push button, timer, code key pad, card reader, intercom system, OPS Connect SMS transceiver device

### **SIGNALLING DEVICES (OPTIONAL):**

Flashing permanent light or rotating beacon (LED), LED spot light, traffic light

### **STATUS INDICATION (OPTIONAL):**

Potential-free contacts "Gate open/closed"

### **FINISH OF FOLDING GATE LEAF AND GATE POSTS:**

Hot-dip galvanized finish with cover panels in RAL 7035 light grey or hot-dip galvanized and powder-coated in standard RAL colour 6005, 7016, 7030, 7035 or 9010

Optional: all other RAL colours

### **WEIGHT:**

Approx. 1450 kg for maximum applicable dimension

### **FOUNDATION:**

Reinforced foundation according to manufacturer's instructions