
GENIUS™
TRAFFIC BARRIER
12V DC BATTERY BACK-UP



BoomGate
Systems (PTY) LTD

Reg.No. 98/23505/07 Engineering Access Control



MARKET LEADER

- South Africa's biggest value for money barrier
- Designed for ultra high traffic flow
- Exported worldwide



APPLICATIONS:

- Parking garages, Golf or Residential Estates, Factories & Mines.
- Industrial and commercial use.
- Any application where vehicles need to be controlled.

DESIGNED FOR:

- Ultra high traffic flow
- Most severe operational conditions.

CONFIGURATIONS:

- From: 2.5m up to 7m with 500mm increment.
- Boom arms are Octagonal or Round aluminium.
- Left and right hand configurations are available.

MECHANISM:

- Electromechanical designed for extreme conditions .
- Designed for reliability and long lasting low maintenance.
- All components are lazer cut and CNC Machined.

TECHNOLOGY:

- Boomgate Systems uses locally designed 100% duty cycle torque motor.
- 3 Ultra long lasting rubber buffers are used for boom dampening to eliminate bouncing and mechanical stress.
- Heavy duty industrial bearings.
- Adjustable counter weight springs system.
- Main PC Board with 12v output for IR Beams or transmitter.
- Control logic microprocessor with several different variations.

DID YOU KNOW?

- Boomgate Systems has supplied over 10 000 barriers.
- Boomgate Systems has barriers installed on the Toll roads local and international.
- Our Barriers are exported world wide.
- Boomgate Systems barriers come with a 2 year warranty, industry first.





TECHNICAL SPECIFICATIONS:

Power:	220V AC \pm 5%
Frequency:	50Hz
Power:	Motor & Control Logic 12V DC
Battery:	7 Amp/H
Power Supply Rated:	5 Amps
Transactions on battery back-up:	Approximately \pm 2 000 transactions
Power Consumption:	80W +75W (incandescent with Robots)
System Integration:	Can integrate with any access control by means of n/o contact that closes and opens again.
Package size:	400 x 400 x 1050 excl boom
Mass:	60kg approx

BOOM ARMS	OPEN IN SECONDS®	CLOSE IN SECONDS
3M	2.1	2.1
4M	3	3
5M	3	3
6M	5.5	5.5
7M	5.5	5.5



DRIVE MECHANISM:

Motor with Gearbox:	12V DC Motor 100% Duty Cycle
Output:	From 60 – 85W
RPM:	14, 10, 5.5, 3
Opening/Closing Time:	1.5 sec, 2.1 sec, 5 sec, and 10 sec
Boom Arm Travel:	85° on power failure Boom Drive Sinusoidal lever ensures that the boom mechanically locks in the up and down position when the motor is on. 3 rubber buffers are used for Boom dampening in the up and down position. Harmonious movement.

7m Industrial Barrier





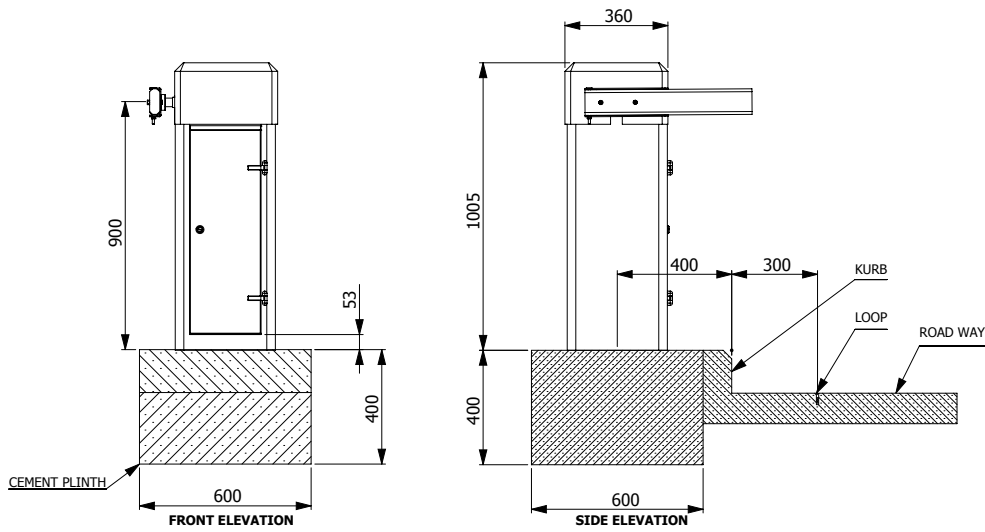
AVAILABLE OPTIONS:

Boom Arm:	Octagonal 90mm x 48mm with red reflective resistant tape, c/w Boomgate Systems unique break away mechanism to save boom arm from damaging. Round 76mm with red reflective UV resistant tape.
Boom Arm:	Extruded Aluminium Tubing
Grade:	6063 T6
Mass per meter:	Octagonal 1.110kg/m Round 0.811kg/m
Lengths:	3m, 4.5m, 6m and 7m
Profile:	Octagonal or Round Octagonal 90 x 48mm Round 76.20 x 1.05mm
Finish:	White epoxy powder coated, spiral round with red reflective tape.
Boom Arm accessories:	Jack-knife kit for Octagonal and Round Boom arms. Boom Arm curtain. Boom Arms come standard with breakaway mechanism. Boom cam kit to monitor boom arm position. Up/down
Boom Arm Mounting:	Left hand is the standard. Right hand on request . Take 20 min to change on site. Boom Mounting Octagonal boom mount with 2 nylon nuts to break off on impact to protect barrier boom. Boom arm swings away from road surface to the barrier housing. Round has got no protection mechanism.
Control Logic:	Logic with separate loop detector PCB mother board with robot logic, interlock control, 12V output IR beam input, arming loop output for parking control systems.
Barrier Housing:	Supplied standard as stainless steel 3CR12 powder coated, white bottom and red top with UV resistant textured exterior powder coating. Also available: 304 brushed stainless steel. 316 brushed stainless steel. Other colours available on request.

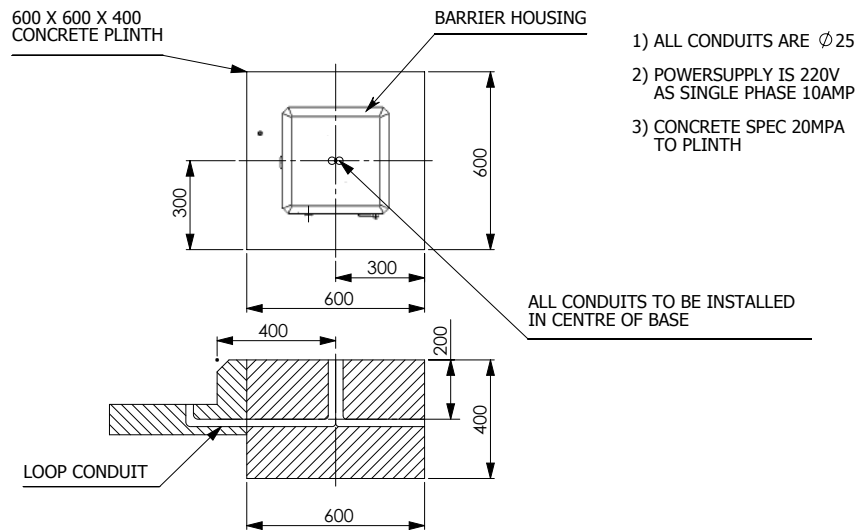


TYPICAL BARRIER INSTALLATION:

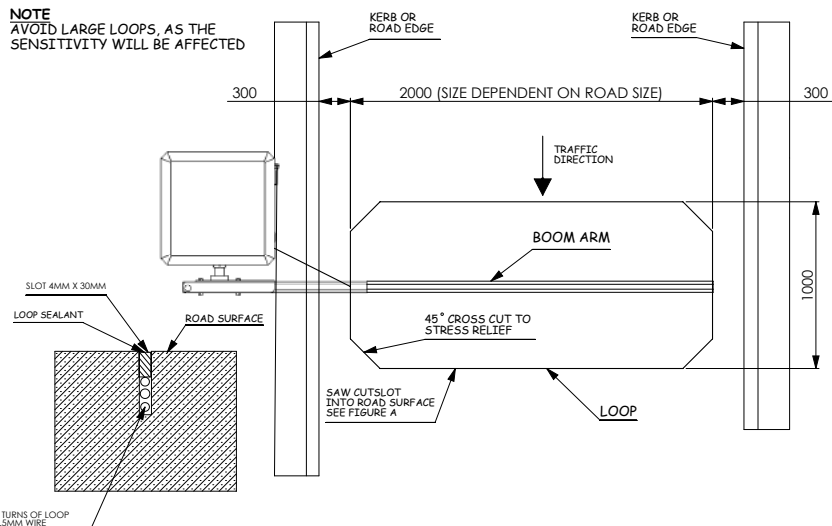
CONCRETE PLINTH



BARRIER MOUNTING



LOOP POSITION





ACCESSORIES:

- Barrier Curtain
- Boom Poles



BARRIER CURTAIN

- Stop Sign
- No Entry Sign



**ROUND AND OCTAGONAL
BOOM POLES**

- Robot
- Card Capture Unit



**ROUND AND OCTAGONAL
END CAPS**



STOP SIGN



NO ENTRY SIGN



ROBOT



CARD CAPTURE UNIT



PUSH BUTTONS



GOOSENECK STAND





BoomGate
Systems (PTY) LTD

Reg No. 98/23505/07

Engineering Access Control



JOHANNESBURG BRANCH: Tel: +27 11 674 4441 • **Fax:** +27 11 674 4450 • **Email:** boomgate@global.co.za

18 Minerva Avenue, Leaglen, Florida, Roodepoort, SOUTH AFRICA

CAPE TOWN BRANCH: Tel: +27 21 551 0849 • **Fax:** +27 21 551 8627 • **Email:** salesci2@boomgatesystems.co.za

Unit 2 Crest Park, 12B Longclaw Drive, Montague Gardens, Cape Town, SOUTH AFRICA

www.boomgatesystems.co.za

Manufacturers & Suppliers of:

- Traffic Barriers • High Security Spike Barriers • Road Blockers • Turnstiles • Security Booths • Pedestrian Barriers
- Paraplegic Gates • Speed Gates • Bollards • Goosenecks • Magnetic Locks • Metal Enclosures • Rubber Islands