

# The Cantilevered Sliding Gate System

Ezi Security manufacture its products where we are able to guarantee optimum quality control  
Ezi Security specialises in the manufacturing, sales, installations and servicing of physical barrier systems to our exacting standards



The Ezi cantilevered sliding gate system is based on the principles of counter balancing. These systems are designed and engineered to Ezi's exacting calculations and standards with a strong emphasis on safety.

Each Ezi slide gate system comprises the following important mechanical modules. The modules consist of the gate main support tower, the gate leaf, the gate back rail and the end post. When bolted together, the main tower and back rail form the main support and rolling platform for the gate leaf. The gate leaf is then attached to this platform with two back-check plate roller sets. The roller sets, when bolted on, lock the sliding gate leaf within the confines of the gate back rail.

The gate system is then bolted to a concrete footing that has been engineered to provide adequate weight to counter-balance the gate system. The combination of gate design and concrete footing allows the gate to roll out over the relevant road opening, without tipping or sagging, basically traveling in free air.

Up to 10 metre road widths (for a single gate) are standard within our product range. The Ezi slide gate system needs no road rails, tracks or overhead supports.

Each Ezi slide gate is designed with automation features as standard. An industrial three-phase drive motor, PLC control logic, frequency inverter and proximity sensors are some of the highly advanced products used in Ezi's product range. Each Ezi PLC system allows for special features and auxiliary equipment to be added, this without major parts redundancy. e.g. traffic light controls, card access readers.

Our main support and rolling platform is well balanced and provides smooth and efficient operations. Our standard cantilevered designs operate at variable speeds. These are adjustable to a maximum of 800mm per second of gate travel.

The Ezi slide gate system is not affected by road crowns, kerbs or falls for drainage in roads. All associated works to install an Ezi slide gate system are performed off to the side of the relevant road, thereby avoiding closures, which can be inconvenient and costly to your business.

The Ezi cantilever sliding gate system has no equal in the industrial market place. Each system will perform reliably all day, every day.

At Ezi, we believe safety should not be an option. That is why our systems have been fully

risk assessed to contemporary OH&S standards by an independent authority.

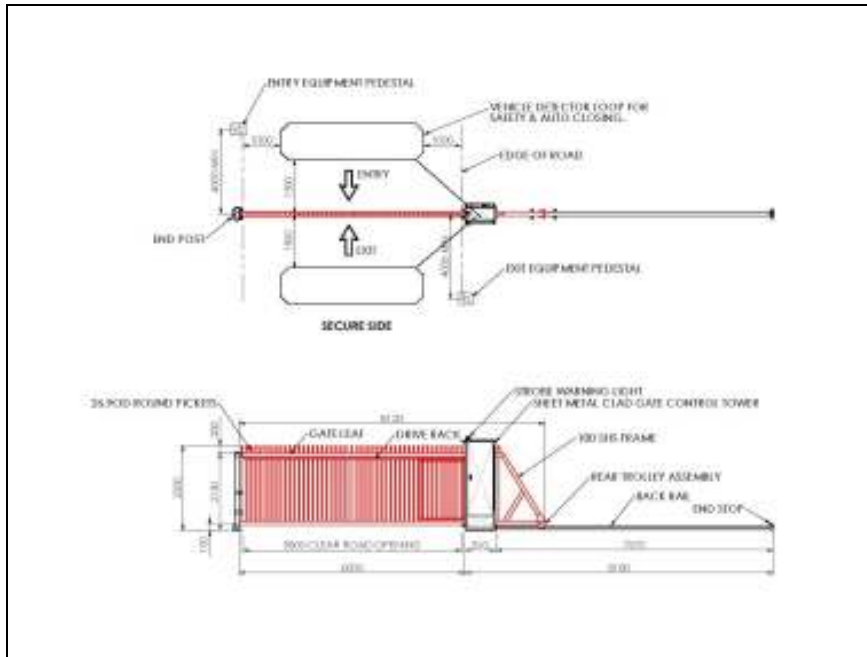
Each Ezi cantilevered sliding gate system has an extensive array of safety devices and features which form part of our standard product offering.

Our wealth of knowledge and experience gained over the years has enabled Ezi to evolve and develop this premium product to suit a variety of ever-changing environments.

The cantilevered gate systems, as developed by Ezi, are purpose-built for the industrial market place. The key consideration is safety of operation without compromise to security. High levels of performance, aesthetically pleasing design and unrivalled reliability are also a feature.

The high performance and advanced technology built into the Ezi slide gate will ensure reliable operation for many years to come. Ezi boasts a large end-user customer base and continues to provide product and service to Australia's leading corporations.

# Technical Data for Standard Sliding Gate



## Standard Sliding Gate Specifications

<b>Gate width</b>	3 metres to 10 metres (variable)
<b>Gate height</b>	2200mm standard
<b>Gate clearance</b>	150mm nominal
<b>Gate erected height</b>	2350mm nominal
<b>Gate frame</b>	100mm sq RHS (variable)
<b>Gate end post</b>	100mm sq RHS
<b>Gate tower</b>	100mm sq RHS
<b>Gate tower height</b>	2500mm nominal
<b>Gate tower cladding</b>	Galvanised sheet metal (1.6mm)
<b>Gate back rail</b>	102mm I beam
<b>Gate finish</b>	Hot dip galvanised (optional 2 pack paint)
<b>Gate bearings</b>	Fully sealed
<b>Guide rollers</b>	Black PVC nylon
<b>Main rollers</b>	Zinc plated, mild steel (40 ton rated)
<b>Motor release</b>	Throw over quick release
<b>Motor</b>	0.75kw three phase brake motor
<b>Gearbox</b>	Worm drive (ratio's variable)
<b>Brake</b>	Electromagnetic, 240v power to release
<b>Drive cog</b>	120mm diameter, nylon (brass optional)
<b>Drive rack</b>	25mm sq zinc plated mild steel
<b>Control logic</b>	True PLC, 24v DC
<b>Drive logic</b>	VSD 240v single phase to 240v three phase
<b>Power supply</b>	Regulated 240v to 24v DC
<b>Control enclosure</b>	IP56, mild steel, painted, 600 x 400 x 200
<b>Position sensing</b>	Proximity sensors, NPN 24v DC
<b>Safety (pedestrian)</b>	Photo electric cells, 24v DC, fail safe
<b>Safety (vehicle)</b>	Inductive loops & detectors, 24v DC, fail safe
<b>Gate duty cycle</b>	True 100% cycling as per Ezi's standard
<b>Power requirement</b>	240v, 15 amp supply
<b>Current draw</b>	4 amp running, 8 amp start up
<b>Strobe light</b>	Red, 24v DC
<b>Piezo</b>	24v DC (pulsing)
<b>Polycarbonate</b>	High impact safety screen