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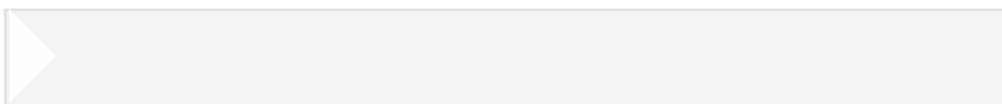
Security Solutions Catalogue

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2015

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robor 

The word "robor" is in a lowercase, orange, sans-serif font. To its right is a stylized logo icon consisting of a grey 'R' shape with an orange circle inside a white semi-circle on its left side.

# Message

Dear Customer,

Whenever an existing or potential customer opens up a catalogue such as this, they expect that the products offered have been thoroughly tested and refined. At Robor Energy, we have been manufacturing and selling steel and related products for over 90 years – so we know that we deliver quality products that work, and work well. It is this history that gives us the credibility to stand behind this catalogue and provide you – the customer – with the confidence to order from Robor Energy.

Robor Energy is a leading South African steel supplier with an International presence. Robor has recently acquired Tricom Structures (Pty) Ltd and all its intellectual property and thus became part of the Robor Energy Division. The experienced personnel have been a successful part of the growing telecommunications and commercial fabrication industry for fourteen years. The growth of these industries have been reflected in the product portfolio and distinctive competencies in design and engineering, enabling Robor Energy to meet demands in a rapidly evolving and highly competitive environment. Products and services are offered throughout the entire life of the communication and transmission networks from conception to commissioning through to continual upgrade and maintenance.

We at Robor Energy and Tricom are proud of this catalogue, so please contact us for quality products and outstanding customer service.

Yours truly,



Indiran Gounden

Managing Director: Robor Energy and Tricom Structures (Pty) Ltd

# Company Profile

## Imagine a world without steel. We Can't...

Established in 1922, Robor is a world-class South African manufacturer and supplier of welded steel tube and pipe. Robor also supplies and adds value to carbon steel coil, plate, sheet and structural profiles. Robor is active in most industries, including Mining, Transport - rail and road, Construction, Engineering, Agriculture, Energy, Telecommunication & Distribution, and Water and Automotive through the supply of steel, cold formed steel profiles and associated value added products including galvanizing.

## It is impossible to imagine a world without steel

Steel is a resource that has played a significant role in enabling the development of the advanced, industrial civilization; from the buildings we occupy to the vehicles we commute in to the pipelines that provide the water we drink; steel is an integral part of our daily lives and Robor has been part of this exciting industry for almost a hundred years.

## A culture of innovation and service excellence

Robor's reputation and expertise have enabled the company to cement its place in local and global markets. A top priority for Robor is product innovation and service enhancement. The company boasts three state-of-the-art production facilities located on the East Rand of Johannesburg, as well as comprehensive warehousing capabilities and outlets in Durban, Port Elizabeth and Cape Town. This ensures the delivery of high-quality products with exceptionally short lead times.

## Broad-Based Black Economic Empowerment (BBBEE)

Robor subscribes to the principle of equal opportunity and embraces diversity. In particular, Robor believes that BBBEE is central to the sustainable success of the company, as well as the prosperity of South Africa and its people. The company utilizes the services of a SANAS-accredited rating agency to verify its BBBEE ratings. Currently, over 30% of its shareholding is held by empowered companies and previously disadvantaged individuals.

## Corporate Social Investment (CSI)

In terms of our other empowerment initiatives, we have a significant number of senior black managers throughout the group and a staff complement that reflects the country's diverse demographic profile. Accelerated training and development of our young leaders helps us to create tomorrow's leaders.

# Company Profile

## Solutions Orientated

Keeping ahead of the advances within these industries allows ROBOR ENERGY DIVISION to capitalize on opportunities, improve performance levels and enhance our ability to innovate. By combining an extensive product range, high levels of service, experience and knowledge, ROBOR ENERGY offers a complete solution to your needs.

Since its acquisition, TRICOM have been manufacturing goods that have brought quality-engineered designs to the telecommunication and distribution marketplace.

ROBOR ENERGY is unique in its ability to provide products and solutions on a global basis to satisfy the communication network infrastructure needs of the cellular, distribution and transmission markets throughout the world.

With decades of experience in communication infrastructure, ROBOR ENERGY provides innovative products and solutions to support the highest standards of performance and reliability demanded by international network operators, service operators, service providers, technology manufacturers and integrators.

TRICOM and ROBOR ENERGY's success has been based on company commitment to total quality and customer satisfaction.

# Fencing Solutions

2.1.1 Rolled Pale Fencing (MTN Spec)

2.1.2 Palisade Angle Iron Fencing

2.1.3 Welded Wire Mesh Fencing

2.1.4 Client Fencing Specifications

2.2.1 Angle Iron Gate

2.2.2 Rolled Pale Gate (MTN Spec)

2.2.3 Welded Wire Mesh Gate

2.3.1 Angular Pedestrian Gate

2.3.2 Rolled Pale Pedestrian Gate (MTN Spec)

2.3.3 Welded Wire Mesh Gate

2.3.4 Tubular Pedestrian Gate



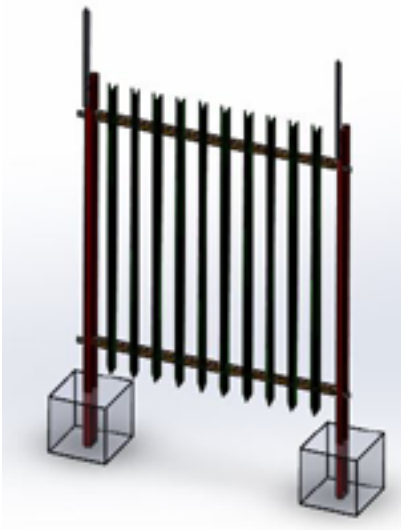
# Fencing Solutions

## 2.1 FENCING OPTIONS

### Site Perimeter Fencing Solutions

We supply three standard variants of fencing in line with most Mobile Network Operator (MNO) specifications and these have been designed accordingly.

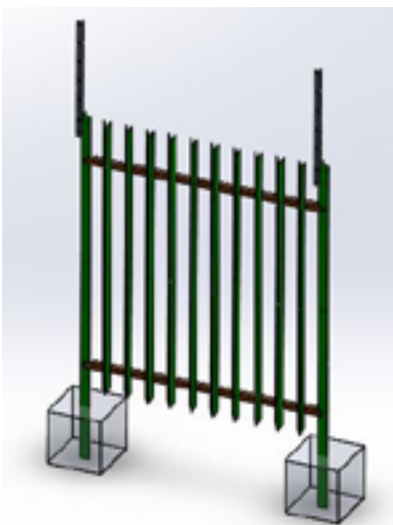
#### 2.1.1 ROLLED PALE



CODE	DESCRIPTION
	Rolled Pale Panel (submerged) -2m
	Rolled Pale Panel (submerged) -1m
	Rolled Pale Panel (bolted) -2m
	Rolled Pale Panel (bolted) -1m

- » Pales: Rolled Pales 65x3mm flat-bar, 2 350mm long, panels of only 1m & 2m.
- » Corner & Intermediate Posts: 100x55mm IPE Sections 3000mm long, submerged or bolted part option available.
- » Top & Bottom Rails: 50x50x5mm Angle Iron 935mm or 1935mm long.
- » 3m Motor Gate: Gate Frames made from 38x38x3mm Square Tubing, Gate Post made from 100x55mm IPE sections 3550mm long.
- » Razor Wire corner bracket: 50x50x5mm Angle Iron 795mm long, razor wire intermediate bracket 40x40x3mm Angle Iron 795mm long.

#### 2.1.2 PALISADE ANGLE IRON

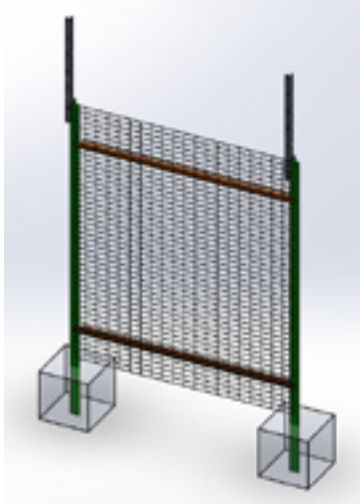


CODE	DESCRIPTION
	Angle Iron Panel (submerged) -2m
	Angle Iron Panel (submerged) -1m
	Angle Iron Panel (bolted) -2m
	Angle Iron Panel (bolted) -1m

- » Pales: Angular 40x40x3mm Angle Iron 2 350mm long, panels of only 1m & 2m.
- » Corner & Intermediate Posts: 80x80x6mm Angle Iron 2950mm long, submerged or bolted part option available.
- » Top & Bottom Rails: 50x50x5mm Angle Iron 1m or 2m long.
- » 3m Motor Gate: Gate Frame made from 38x38x3mm Square Tubing, Gate Post made from 100x100x10mm Angle Iron 2 950mm long.
- » Razor Wire Bracket: Straight Razor Wire Bracket 40x40x3mm Angle Iron 990mm long or 45° Razor Wire Bracket available.

# Fencing Solutions

## 2.1.3 WELDED WIRE MESH



CODE	DESCRIPTION
	Wire Mesh Panel (submerged) -2m
	Wire Mesh Panel (submerged) -1m
	Wire Mesh Panel (bolted) -2m
	Wire Mesh Panel (bolted) -1m

- » Panels: Galvanized welded wire mesh panels with 9 100mm x 50mm x 2.5mm profile is used in panels of only 2m & 1m.
- » Corner & Intermediate Posts: 80x80x6mm Angle Iron 2 950mm long, submerged or bolted part option available.
- » Top & Bottom Rails: 50x50x5mm Angle Iron 1m or 2m long.
- » 3m Motor Gate: Gate Frame made from 38x38x3mm Square Tubing, Gate Post made from 100x100x10mm Angle Iron 2950mm long.
- » Razor Wire Bracket: Straight Razor Wire Bracket 40x40x3mm Angle Iron 990mm long or 45° Razor Wire Bracket available.

## 2.1.4 CLIENT SPECIFIC FENCING SPECIFICATIONS



CODE	DESCRIPTION
	Single Swing Motor Gate (submerged) -2m
	Single Sliding Motor Gate (submerged) -2m
	Single Swing Motor Gate (bolted) -2m
	Single Sliding Motor Gate (bolted) -2m

- » Tricom designs and manufactures standard perimeter fencing solutions for our clients according to their specifications.
- » Due to manufacturing requirements and quality requirements all fencing designed and manufactured for our clients are subject to volume and cost negotiations.

# Fencing Solutions

## 2.2 VEHICLE ACCESS GATES

Swing Gates and/or Sliding Gates can be supplied

### 2.2.1 ANGLE IRON GATE



CODE	DESCRIPTION
	Angle Iron Swing Vehicle Gate (submerged) -3m
	Angle Iron Sliding Vehicle Gate (submerged) -3m
	Angle Iron Swing Vehicle Gate (bolted) -3m
	Angle Iron Sliding Vehicle Gate (bolted) -3m

- » Standard 3m x 2,4m Vehicle Gate frames are supplied.
- » Gate frame is made from 38x38x3m square tubing.
- » Gate parts are made from 100x100x10m Angle Iron
- » 3m Sliding gate available on request

### 2.2.2 ROLLED PALE GATE



CODE	DESCRIPTION
	Rolled Pale Swing Vehicle Gate (submerged) -3m
	Rolled Pale Sliding Vehicle Gate (submerged) -3m
	Rolled Pale Swing Vehicle Gate (bolted) -3m
	Rolled Pale Sliding Vehicle Gate (bolted) -3m

- » Standard 3m x 2,4m gate frames are supplied.
- » Gate Frames are made of 38x38x3mm square tubing.
- » Gate parts are made of 100x55m IPE sections that are 3550mm long.
- » 3m Sliding gate available on request



# Fencing Solutions

## 2.2.3 WELDED WIRE MESH GATES



CODE	DESCRIPTION
	Wire Mesh Swing Vehicle Gate (submerged) -3m
	Wire Mesh Sliding Vehicle Gate (submerged) -3m
	Wire Mesh Swing Vehicle Gate (bolted) -3m
	Wire Mesh Sliding Vehicle Gate (bolted) -3m

- » Panels of galvanized welded wire mesh is used with a 100mm x 50mm x 2.5mm profile.
- » Gate frame is made from 38x38x3m square tubing.
- » Gate parts are made from 100x100x10m Angle Iron
- » 3m Sliding gate available on request

# Fencing Solutions

## 2.3 PEDESTRIAN GATES

1m Pedestrian Gates are manufactured

### 2.3.1 ANGLE IRON PEDESTRIAN GATE



CODE	DESCRIPTION
	Angle Iron Pedestrian Gate (submerged) -1m
	Angle Iron Pedestrian Gate (bolted) -1m

- » Standard 1m x 2,4m gate frames are supplied.
- » Gate frame is made from 70x70x6m Angle Iron.
- » Gate parts are made from 100x100x10m Angle Iron

### 2.3.2 ROLLED PALE PEDESTRIAN GATE

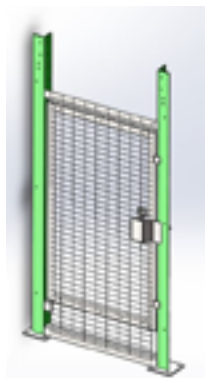


CODE	DESCRIPTION
	Rolled Pale Pedestrian Gate (submerged) -1m
	Rolled Pale Pedestrian Gate (bolted) -1m

- » Standard 1m x 2,4m gate frames are supplied.
- » Gate Frames are made of 38x38x3mm square tubing.
- » Gate parts are made of 100x55m IPE sections are 2400 mm long.

# Fencing Solutions

## 2.3.3 WELDED WIRE MESH GATE



CODE	DESCRIPTION
	Wire Mesh Pedestrian Gate (submerged) -1m
	Wire Mesh Pedestrian Gate (bolted) -1m

- » Panels of galvanized welded wire mesh is used with a 100mm x 50mm x 2.5mm profile.
- » Gate frame is made from 70x70x6mm Angle Iron.
- » Gate parts are made from 100x100x10mm Angle Iron

## 2.3.4 TUBULAR PEDESTRIAN GATE



CODE	DESCRIPTION
	Tubular Pedestrian Gate (submerged) -1m
	Tubular Pedestrian Gate (bolted) -1m

- » Tubular pedestrian gate to be used in concrete palisade fencing.
- » Standard ( ie. 1m x 2,4m ) gate frames are supplied.
- » Gate frame made of 38x38x38mm square tubing.
- » Gate parts are made of 76x38x3mm rectangular tubing.

# Fencing Solutions

## 2.4 FENCING CALCULATOR

PLEASE REFER TO ENQUIRY ON WEBSITE FOR FENCING CALCULATOR

2 Fencing Solutions

2.4 Fencing Calculator