

TSC STEEL STRUCTURES

COMPANY PROFILE



TSC Construction Group (Pty) Ltd
t/a TSC Steel Structures
2020/624384/07

2023

Vision, Mission & Core Value

VISION

With its clear vision to become a leading company providing turnkey services for steel structure projects locally and regionally, TSC Steel Structures strives every day to position itself in the market and define its road to sustainable success.

MISSION

Having fully understood that clients' satisfaction is considered as an effective tool to measure TSC Steel Structures's brand equity, the company always commits to providing its clients with high quality projects with competitive prices whilst upholding stringent technical and aesthetic requirements. TSC Steel Structures has been developing its business highly prioritizing life values and people as well as aiming at bringing prosperity to the society where the company is located.

VALUES

TSC Steel Structures's working motto is to maximize our “Trustworthy – Integrity – Objective, Ability – Selection Teamwork”, which we consider as both our pride and responsibility!

- **Trustworthy:** We aim to build trust through honest business transactions.
- **Integrity:** Integrity means consistency in words, thoughts, actions and such values as modesty and bravery.
- **Objective:** Working towards clear aims and action.
- **Ability:** Highly recognize your values and capabilities
- **Selection:** Always look for, select and employ applicable scientific advances and technology in its process of management and manufacture as well as actively improve its product and service quality.
- **Teamwork spirit:** The team outstanding achievement is built upon individual performance and capabilities.

Products & Services

Earthworks & G.E.T. Parts

G.E.T - Ground Engagement Tools (Parts)

TLB Front & Rear

Grader Blades

TLB Buckets

Excavator Buckets

Loader Buckets

Crusher liner plates

Bin Liner Plates

Plasma Cutting

CNC Machining on Bushes & Pins

Converting GP - Semi Rock or Rock Bucket

Induction hardening on Pins @ Bushes

Refurbishment & Spray painting on machines includes sticker kits



Steel Structure Application

Nearly 70% of all single storey non-residential construction now utilizes pre-engineered buildings. Applications range from small car parking carports to 90 m (+), wide clear span warehouses to low-rise multi-storey buildings. Almost every conceivable building use has been achieved using the pre-engineered building approach.

PREFABRICATED STEEL BUILDINGS ADVANTAGES

With durability, bearing capacity and many outstanding advantages, steel-framed factories, distribution warehouses, aircraft hangers, retail spaces, churches, gyms and houses, are the first choice for many current projects, especially in the field of industrial construction.



1. COST SAVINGS

The cost of a pre-engineered steel building can be up to 25% lower per square meter (m2) compared with the traditional method. The erection cost will be very low because of the simple and quick erection time.



2. QUALITY GUARANTEED

Steel structures are designed and manufactured right in the factory with a rigorous, continuous quality control process from start to finish.



3. QUICK ERECTION

All steel head components are manufactured at the factory and erect using bolt links on site. Therefore, the erection process is quick and simple with compact and lightweight equipment.



4. FLEXIBILITY

Prefabricated house is completely easy and flexible to scale or disassemble, erect in a new location with reasonable cost.



5. ENERGY EFFICIENCY

Pre-engineered steel buildings are a "green" solution for the environment by reducing CO2, saving energy and recycling efficiently.



UNLIMITED SHAPING CAPABILITIES.

The use of steel as a housing frame allows your unlimited home décor ideas to come true. Because the strength of steel is better than concrete, wood, and the materials used in conventional house framing.

STEEL STRUCTURES

Structural steel is steel construction material, it is a profile formed with specific shapes or cross sections and specific standards of chemical composition and mechanical properties. Structural steel shape, size, strength, composition etc is regulated in most industrialised countries. For example, structural steel sections such as I-beams have high second moments of area, this allows them to be very stiff in respect to their cross sectional area. In most of the developed countries, the shapes available for steel structures are set out in published standards as well as a number of specialist and proprietary cross sections are also available for the erection of specific steel structures. Steel structures incorporate the following sections where necessary:

- I beam – This is an I shaped cross section
- Z Shape – Half a flange in opposite directions
Structural hollow section which includes shapes square, rectangular, circular and elliptical.
- Angle – This is an l-shaped cross section
Structural channel
- Tee – t-shaped cross section
- Rail profile - asymmetrical I-beam
- Bar – a piece of metal, rectangular cross section (flat) and long, but not so wide as to be considered a sheet.
- Rod – a round or square long piece of metal
- Plate – metal sheets that are thicker than 6mm, while many steel structure sections are made by hot or cold rolling, others are made by welding together flat or bent plates. The largest circular hollow sections are made from flat plate bent into a circle and seam welded.

DESIGN

We work extensively with our clients to provide advice on the most effective building design to meet their needs including ventilation, insulation, natural lighting and door access among other considerations. The most critical aspect of the design is the optimization of space and financial resources available to achieve the desired result.

Our focus is to give you the steel structure you want, in the most cost-efficient manner possible. Our organization is geared towards achieving this.

All our buildings are designed to meet SANS10601 design parameters for safety, and our team spends significant time, prior to project commencement, understanding your needs and the environmental conditions under which the structure will operate.

Some of the factors we take into account when designing your building include both dead and live loadings such as hail, snow loading, wind speed and terrain category, as well as services required by the building including fire extinguishers, suspended ceilings, ducting and loadings both inside and outside.

PLEASE NOTE we also do civils and wet works!

MANUFACTURING

Our entire team is committed to producing steel structures of the highest quality. We only use high grade materials, which are all signed for and checked at every stage throughout the process. Our internal controls mean that every part of your structure is accounted for, from beginning to end.

Steel manufacturing is the building of metal structures by means of cutting, bending and assembling processes. manufacturing comprises various metalworking specialities. Steel manufacturing is a value added process that involves the construction of structures from various raw materials. These are based on engineering drawings which include precise measurements which then move to the manufacturing stage and finally to the erection of the final project.

Our plant and equipment are custom purchased with the primary decision taken not on brand name or price, but on cutting accuracy. This is, we believe, the most important function for all equipment.

INSTALLATION

Our teams can handle the bases, rigging, sheeting and painting and are both quality control driven and health and safety compliant.

Our Project Manager will visit the site regularly and will be available when it is completed for the official hand-over.

Our skilled and experienced installation crews are available to install all our steel structures.

All access to sites is strictly controlled and you will be introduced, at the outset, to all members of the crew that will be working on your project so that you know who your TSC Steel Structure team is, upfront.

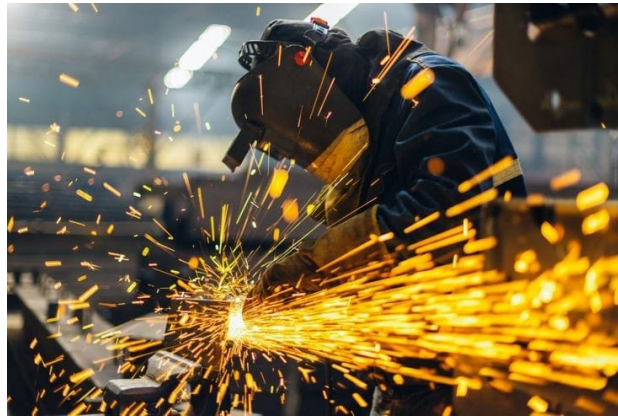
Particular care is taken when offloading the structural components on site and you will receive regular communication and liaison prior to the truck arriving to clarify where it must be offloaded and where key components are to be stored.

Gallery

Steel Structures

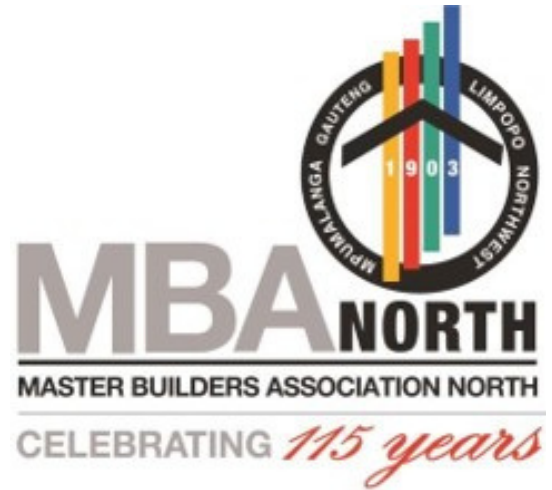


TSC busy with specialized custom steelwork



Mezzanine Floors





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