

STEEL BUILDING PROJECTS



OUR PROMISE TO YOU:

- Quality buildings at a competitive price
- Efficient and speedy quotation process
- Delivery through a high-capacity factory that uses state-of-the-art technology
- Superior service with technical staff on hand to address all your needs
- Quality materials—we use only commercial grade SABS-approved steel for ALL building components



STEEL BUILDING PROJECTS

TABLE OF CONTENTS

About Us	Page 3
Our Customers	Page 3
Building In A Box	
Our Steel Building Kits	Page 4
DIY Export Kits	Page 5
Processing & Packaging	Page 6
Shipping	Page 6
Overland Transport	Page 6
Erecting Your DIY Steel Building	
Step-by-Step Instructions	Page 7
Know Your Soil	Page 8
Firm Foundations	Page 9
Column Installation	Page 10
We Only Use Quality Steel	Page 10
Steel Building Extras	Page 11
Contact Details	Page 12

STEEL BUILDING PROJECTS

ABOUT US

Headquartered in Johannesburg, South Africa, **Steel Building Projects** is a wholly South African owned company with a national and continental reach into Africa. Some companies in our group have been in business since 1982: consequently we pride ourselves on the fact that any guarantees given by us have substance to them.

Because we are aware that your investment in your steel building is very important to you, we ensure that our prices are competitive. Our production capacity makes use of enhanced state-of-the-art engineering, our delivery is on time, our materials are only of the highest quality, and our technical and admin support team keeps you informed each step of the way.

COUNTRIES WE'VE DONE WORK IN

At this stage we (and our associated companies) have exported (and in some cases even erected) steel buildings to countries such as: Angola, Botswana, Burkina Faso, the Democratic Republic of Congo, Gabon, Guinea, Lesotho, Malawi, Mali, Madagascar, Mauritania, Mauritius, Mozambique, Namibia, Nigeria, Swaziland, Saudi Arabia, Senegal, Seychelles, Tanzania, UAE, Zambia and Zimbabwe. **And, what's more, some of these buildings were for Top 100 companies.**

OUR CUSTOMERS

Our past customers include:

- Toyota SA
- AAA International, Bermuda
- Cemtec Limitada, Angola
- First National Bank, South Africa
- Kansanshi Mines, Zambia
- Lubco Sprl, Katanga, DRC
- City Properties, Pretoria
- Corstor, Tanzania
- United Cricket Board, South Africa
- The Medicross Group, South Africa
- Zalawi Haulage, Zambia
- Senet for Tasiast Gold Mine, Mauritania
- The Institute of Accountants, South Africa
- De Beers Consolidated Mines (Industrial Diamond Division)
- Taparko Gold Mine, Burkina Faso, and so on.



QUALITY GUARANTEED:

All our new structures are guaranteed for 3 (three) years on all materials used if the payment terms and conditions have been strictly adhered to.

STEEL BUILDING PROJECTS

BUILDINGS IN A BOX

OUR STEEL BUILDING DIY KITS

The ease of erection of our portal frame steel structures makes it possible for you to purchase your factory in DIY kit form and erect it yourself.

A variety of commercial operations—from farm sheds, to warehouses, retail outlets to workshops and small aircraft hangers—can take advantage of these DIY steel building kits as the structures can be pre-configured to be appropriate for our customers' special uses.

Our DIY factory building kits have been developed to provide you with rapid deliveries at the most competitive pricing possible. This service is available throughout Africa via our Buildings In A Box System.



Each **Steel Building Projects** DIY kit comes fully protected with red-oxide primer. The water-based environmentally friendly red-oxide primer is designed to protect the steel before it is erected. When properly applied, it holds up against all but the worst abuse (such as, allowing water to pool for weeks on un-erected parts). As a result, any exposed red iron inside your steel building will look good for years, and you can finish it to look even better.

STEEL BUILDING PROJECTS

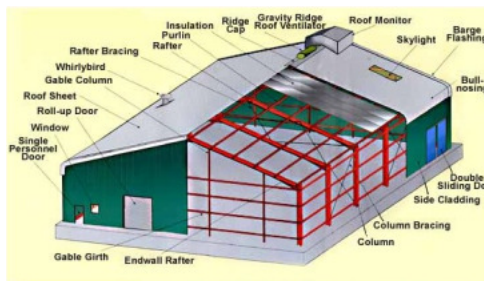
DIY EXPORT KITS

Our export buildings are individually containerized for delivery to **any building site on Earth**. Each shipping container is packed with all the materials needed to assemble the building in the field. A building can be erected quickly upon delivery, provided that a foundation is already in place and the necessary utility services are set up onsite (when applicable).



The unique modular structure also allows for rapid development and cost-effective expansion. Our standard structures are supplied with 0,5 Full Hard Galvanized IBR Roof sheeting (which is also available in Chromadek and Zinalume) and all fasteners, including foundation bolts.

All instructions needed for easy, simply, and fast erection come supplied with you DIY steel building. In addition to your erectors having an outstanding set of clear, common-sense drawings, our **Steel Building Projects** representative is just a phone call away with support and advise if necessary.



STEEL BUILDING PROJECTS

BUILDINGS IN A BOX

PROCESSING & PACKING

From the factory welding floor to the loading of your DIY steel building, your **Steel Building Projects** representative will be your eyes and ears on the ground in South Africa, ensuring quality control, adherence to specs, and that all the components needed onsite are checked and re-checked during the loading process.



LOADING BAY:

For quick and easy loading, the load bay crane (left) allows steel building components to be placed directly into open-top containers.



SHIPPING

Steel Building Projects is able to assist our customers—leveraging off our long-standing relationships with reputable shipping companies—in obtaining cost-effective shipping quotes for DIY steel buildings.

OVERLAND TRANSPORT

Some of our customers prefer to transport their steel buildings overland—again, **Steel Building Projects** can get you in touch with the right people. Various forms of overland transport are available.



ERECTING YOUR DIY STEEL BUILDING

A DIY steel building from **Steel Building Projects** comes complete with the design, a set of comprehensive, high-quality drawings which can be submitted to your local authorities, and the materials for the basic structure. Plus you will receive a registered professional engineer's certificate stating that the structural steelwork complies with SABC 0162: *Code of Practice for the Structural Use of Steel* requirements. But the building will also need some type of foundation, and its construction will require labour, some tools, and in some cases with bigger buildings, even a crane.

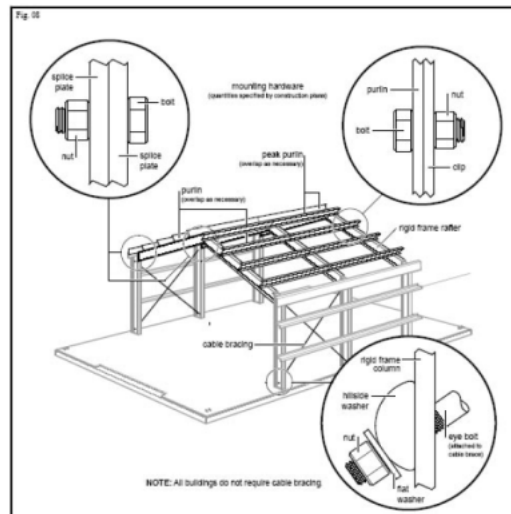
Any form of drawing is ONLY supplied 10-15 working days after your order is placed, the initial down payment has been received, and the EXACT positions of all doors have been clarified.

In the case of the DIY kit, **Steel Building Projects** usually supplies all anchor bolts with the drawings to facilitate footings and slab building while the building itself is being manufactured and transported to site. The design for the footings is standard and is included in our standard plans.

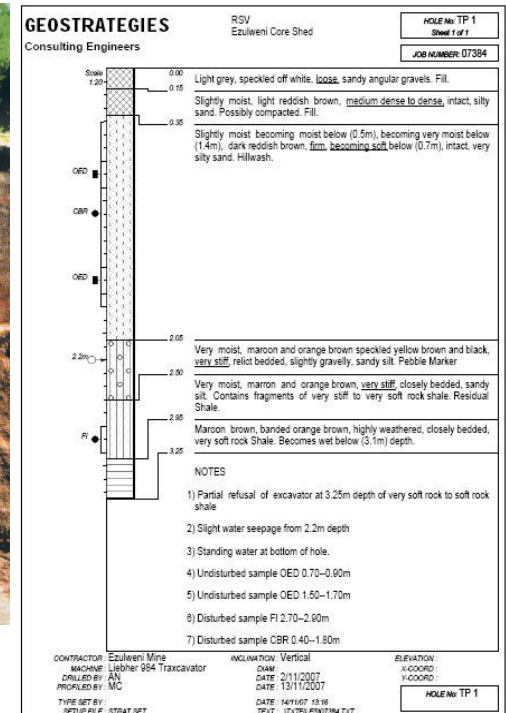
STEP-BY-STEP INSTRUCTIONS

Once your DIY steel building has been delivered, the simple process of erecting the steel structure can begin. Each DIY steel building supplied by **Steel Building Projects** comes with a comprehensive erection manual with easy to follow instructions and diagrams to assist you with erection. Plus the various components are labeled for ease of erection (see *photograph on Page 4*).

Prior to construction, it is recommended that you read the erection manual and thoroughly study the "Pre-Engineered Drawings". Understanding the assembly process allows the erector to properly plan the assembly and help to avoid unnecessary delays. It is the customer's responsibility to be familiar with all laws and regulations that govern permits, labour and employment, safety, materials handling and disposal, and any other issues which may apply.



ERECTING YOUR DIY STEEL BUILDING



KNOW YOUR SOIL

When one erects ANY building and the soil looks a bit suspect, it is advisable to dig a few holes and take soil samples. The results look something along the lines of the image at right above. Soil conditions are of the utmost importance and should never be ignored.

If a building is to be constructed in an area with clay soils one should be aware that clay soils have been found to expand 23cm or more if subjected to long cycles of drying and wetting, thus producing powerful forces that can shear foundations and lift lightweight buildings. Some soils with high organic content may, over time, compress under the building load to a fraction of their original volume, causing the structure to settle. Other soils tend to slide under loads.

Soil and geological analyses are necessary, therefore, to determine whether a proposed building can be supported adequately and what would be the most effective and economical method of support.

ERECTING YOUR DIY STEEL BUILDING

FIRM FOUNDATIONS

Only proceed with the foundation for your DIY steel structure once you are satisfied with the underlying geology and soil conditions.

All steel buildings require footings on which to anchor the columns (see picture top right) and thereby tie the whole structure together. Some agricultural buildings are designed to have dirt or gravel floors and may not make use of the traditional concrete slab.

We strongly recommend that you employ an experienced local foundation engineer to design your foundation. The erection drawings supplied with your DIY building will include an “anchor-bolt setting plan,” which will give a qualified engineer the necessary data to design a suitable foundation for your building.



ERECTING YOUR DIY STEEL BUILDING

COLUMN INSTALLATION

It is obviously critical that the columns (poles) of a steel building be accurately and firmly base-plated onto a proper and correct strength concrete base. Very often companies use sub-contractors, who sometimes have to supply the concrete as part of their sub-contract fee, to erect these structures. This can result in the skimping on material, the upshot of which can be column movement. One doesn't have to be overly astute to understand that this can lead to all sorts of problems.

You can therefore appreciate that these piers must be properly done. Because we are obsessed with quality all our installers (12 teams) have been in this industry for many, many years and are part and parcel of the company. One particularly important factor worth mentioning on its own is that the end of the column shaft has to be flat to ensure uniform transfer of the force to the base plate. This requires machining and cannot be achieved without the proper tooling.



WE ONLY USE QUALITY STEEL



The use of B Grade steel is not common in the industry, but it has nevertheless occurred. And an untrained eye will simply not spot it.

Steel Building Project's DIY steel buildings make use of only commercial grade SABS-approved steel for all building components. The commonly used structural steel grade in South Africa is SABS 14-31 300WA—which has a minimum yield stress of 300 MPa and a minimum ultimate tensile strength of 450 MPa.

All our steelwork is precision engineered and CO₂ welded by qualified boiler-makers and coded welders. All steel sections are closed and sealed to prevent water inflow and rust.

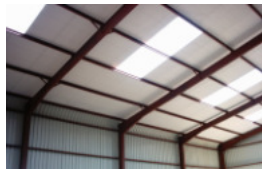
STEEL BUILDING EXTRAS

There are a wide variety of additional extras available to compliment our DIY steel buildings; here are just a few:



WHIRLY BIRDS

These provide excellent ventilation and are relatively inexpensive when compared with other forms of ventilation.



CLEAR POLYCARBONATE SHEETING

The use of Polycarb sheeting allows an enormous amount of light into these structures.



GALVANISED ROLLER SHUTTER DOORS

Industrial Galvanized Roller Shutter Doors are secure, easy to use, operate and lock. They look good on any steel structure and can come in large sizes to allow for entry by heavy-duty machinery, and can also be motorized for ease of use.



POLYSTYRENE INSULATION

This stock of Double Sided Panels, with a 100mm 16DV Fire Retardant Polystyrene Insulation in the middle were for 42 buildings recently supplied to Angola where six (6) of the buildings were to be used for refrigeration storage of fruits and vegetables.

As with all **Steel Building Projects** DIY kits, all these extras—including other items such as Personnel Doors, Sliding Doors, Gable Cladding, Side Cladding, Chromadek sheeting, Bull-noses and Alucushion Insulation under Roof Sheeting—are supplied with **FULL** assembly instructions.

STEEL BUILDING PROJECTS

Registered Office

9A Shelley Road
Senderwood
Bedfordview
2008

MANAGING MEMBER

André Bouwer
084 303 8179
andre@building-sa.co.za

Phone: + 27 (11) 453 4401
Local Fax: 086 660 0845
Email: info@steel-building-projects.com
Websites: www.steel-building-projects.com
www.building-sa.co.za