



COMPANY PROFILE



**“WE SHAPE OUR BUILDINGS;
THEREAFTER, THEY SHAPE US.”**

– Winston Churchill

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VISION

“TO BE ONE OF THE LEADING COMPANIES IN EAST AFRICA IN FABRICATING & INSTALLING OF STEEL BUILDINGS”

OVERVIEW

ABOUT US

BETA Steel started its commercial operations in 2014. Since BETA has grown into a significant player in the industry surpassing all others in terms of product quality and service.

BETA came to Kenya in 2017 , and since then has started implementing several projects.

BETA had established its own branch in Kenya under name BETA STEEL STRUCTURE LTD.

BETA steel specializing in:-

-Pre-Engineered Steel Buildings comprising of Built-up members, Secondary Cold formed (C & Z) members and Panels & Panel Accessories.

- Hot Rolled Steel Buildings & Structures comprising of hot rolled members.

MISSION

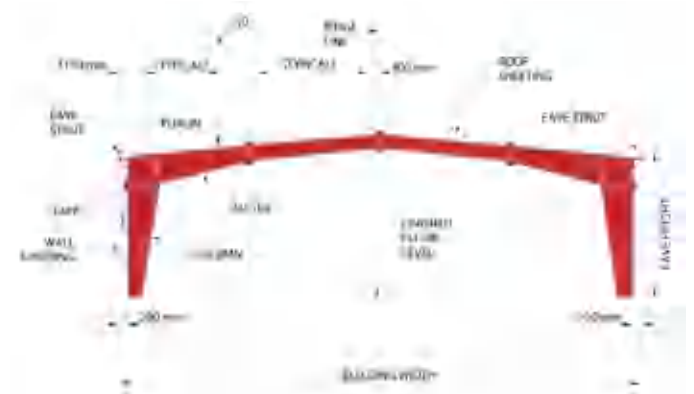
“TO PROVIDE TOP QUALITY PRODUCTS & SERVICES ON TIME AT THE MOST REASONABLE PRICES AND REACH THE HIGHEST POSSIBLE LEVEL OF CUSTOMER SATISFACTION”

PRE-ENGINEERED STEEL BUILDING STEEL STRUCTURES

The PEB Steel Structure of a Pre-Engineered Steel Building generally accounts for over 80% of the weight of the Pre-Engineered Steel Building. This 80% is an average and may change plus or minus 10% depending on the presence of mezzanines, crane runway beams, type of Panels used and the amount of building accessories that are included in a building. The unit of measure for PEB Steel Structures is metric ton (MT). As a general average, one square meter (1 m²) of PEB Steel Structure weighs 25 kg. Thus one MT of PEB Steel Structure = 40 (1000/25) m² of building foot print. The PEB Steel Structure is made up of frames, secondary members and steel standard buyouts.

FRAMES

In the PEB industry often refer to primary built-up & hot rolled members. Constant depth or tapered depth built-up members generally account for over 90% of the weight of frames while hot rolled members generally account for the remaining 10%



CONSTRUCTION NUGGET

**“BUILDING IS ABOUT GETTING
AROUND THE OBSTACLES THAT
ARE PRESENTED TO YOU.”**

- Jeremy Renner

Secondary Framing

Purlins, girts and eave struts are secondary structural members used to support the wall and roof panels. Purlins are used on the roof; girts are used on the walls and eave struts are used at the intersection of the sidewall and the roof.(Z section and C section)

Secondary members have two other functions:

- Act as struts that help in resisting part of the longitudinal loads that are applied on the building such as wind and earthquake loads
- Provide lateral bracing to the compression flanges of the main frame members thereby increasing frame capacity

Purlins, girts and eave struts are available in 1.5 mm, 1.75 mm, 2.0 mm, 2.25 mm, 2.5 mm and 3.0 mm thickness. They come with a pre-galvanized finish, or factory painted with a minimum of 35 microns (DFT) of corrosion protection primer.

- **Mezzanine Deck** (0.7mm thick) used to support concrete slabs in second level flooring.
- **Base angles, gable angles, and mezzanine edge angles.**
- **Valley gutters** (0.7mm thick) in Multi Gable Buildings

Steel Standard Buyouts (SBO)

These are items that are required in almost every PEB Steel Structure. They are manufactured by others and stocked by the PEB manufacturer. They include Anchor Bolts, Connection Bolts, Sag Rods and Cable Bracing Components.

HOT ROLLED STEEL STRUCTURES (STRUCTURAL STEEL)

The unit of measure of hot rolled structures (structural steel) is the metric ton (MT). Hot Rolled Steel Structures applications include Multi Storey low rise buildings, equipment supporting structures, pipe racks, Petro Chemical Plants, Power Plants, conveyor supporting structures, cement plants, etc.

The majority of hot rolled steel buildings and structures are designed by Consultants and tendered for fabrication, blasting, painting and delivery to the jobsite. The fabricator is responsible for the design of connections and the preparation of shop drawings, erection drawings and Bills of Materials (BOM's). Occasionally erection is included in the scope of the supplier.

“A WORLD WHICH SEES ART AND ENGINEERING AS DIVIDED IS NOT SEEING THE WORLD AS A WHOLE.”
- Professor Sir Edmund Hoppold

PANEL & PANEL ACCESSORIES

Panel Accessories include single skin panels, sandwich panels, trims and flashing, panels standard buyouts and building accessories. Although all roofs have panels, walls are often partially or fully open for blockwall, precast panels or access.

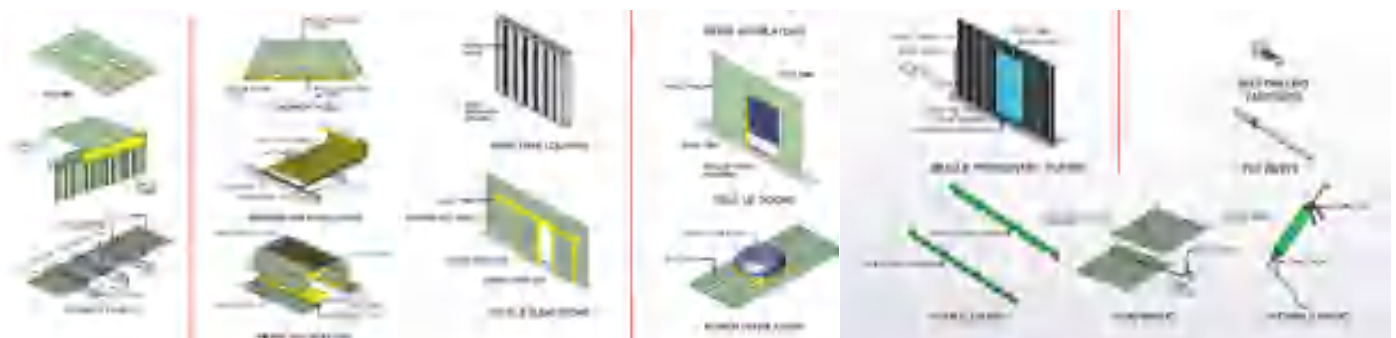
BETA Steel does not produce panels but has an exclusive arrangement, with the largest producer of panels in the Egypt and it is imported first grade. The engineering drawings for the panels are done by BETA Steel.

- corrugated steel sheets and its flashing are manufactured in accordance to the American standards specifications ASTM A653. imported first grade. These high quality galvanized and pre-painted galvanized corrugated sheets and produced in various thicknesses ranging from 0.4 to 1.0mm.
- Galvanized coating weighing minimum 80 gm/m².

Painting:-

Front side: 20 micron polyester and 5 micron primer color

Back side: 8 micron high quality primary coating



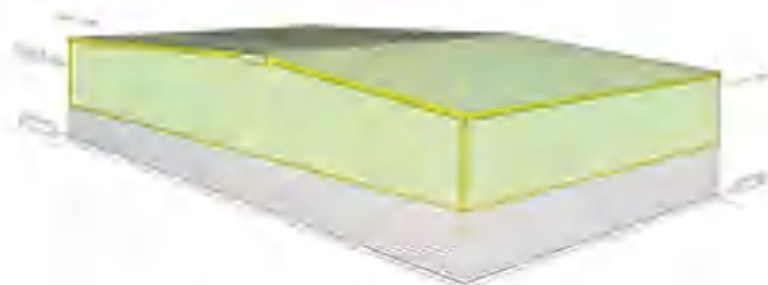
CONSTRUCTION NUGGET

“YOU CAN USE AN ERASER ON THE DRAFTING TABLE OR A SLEDGEHAMMER ON THE CONSTRUCTION SITE.”

– Frank Lloyd Wright

Sandwich Panels

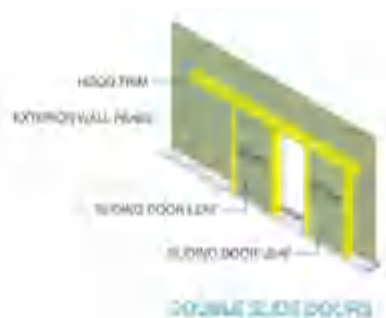
have a polyurethane foam core sandwiched between two single skin metal panels (or an exterior single skin metal panel and an interior aluminum faced laminate). BETA Steel does not produce sandwich panels but has an exclusive arrangement, with the largest producer of sandwich panels in the Egypt, for the purchase and resale of sandwich panels, to provide its Customers with a single source supply responsibility. The engineering drawings for the sandwich panels are done by BETA Steel.



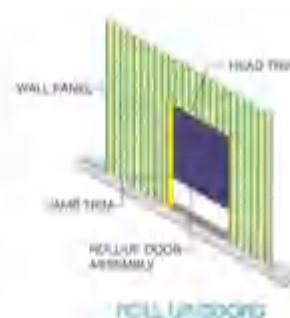
COMMON FLASHINGS AND TRIMS AT ROOF AND ENDWALLS

Building Accessories

and special buyouts (SBO's) include sliding doors, rollup doors, personnel doors, fiberglass insulation, sandtrap louvers, windows, ridges ventilators. Some are produced in-house. Some are purchased from suppliers and included in our single source supply.



DOUBLE SLIDE DOORS



ROLL UP DOORS

CONSTRUCTION NUGGET

“THE SUN NEVER KNEW HOW GREAT IT WAS UNTIL IT HIT THE SIDE OF A BUILDING.”

– Louis Kahn

Panel Standard Buyouts

are items that are produced by others and stocked as finished items by the PEB manufacturer. They include sheeting fasteners (carbon steel and stainless steel), bead mastic, pop rivets, foam closures, skylights, etc. These are packed by us for a specific building and shipped to the jobsite with the panels.



INSULATION

Insulation is rock wall or fiberglass blanket of stable and uniformly textured inorganic glass fiber bonded together by a non-water soluble and fire retardant thermosetting resin.

Standard insulation thickness is 50 mm; higher thicknesses (75 mm and 100 mm) are available upon request.

Standard insulation facing is White Metalized Scrim Kraft (WMSK). Or aluminum face for rock wall. The standard nominal insulation density shall be 12 kg/m³ with a thermal conductivity of 0.041 w/mk at mean temperature of 25 0C. Higher densities (16 kg/m³ and 24 kg/ m³) are available upon request.



STRUCTURAL ADDITIONS

Roof Extensions

Sidewall roof extensions beyond the building width at sidewall eaves and are generally a simple continuation of the main building roof slope.

Endwall roof extensions extend beyond the building length at endwall gable and are developed by extending the end bay purlins and eave struts of the main building beyond the endwall rafter.

Standard widths for roof extensions are possible but may require heavier framing or additional structural members.

Canopies

Sidewall canopies are cantilevered rafters attached to sidewall columns at any point below the eave.

Endwall canopies are cantilevered rafters attached to the endwall wind columns below the gable.

Canopy widths range from 1500 mm to 3000 mm. Wider canopies are possible but may require reinforcement of sidewall or endwall columns.

Fascias and Parapets

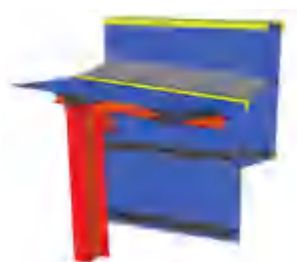
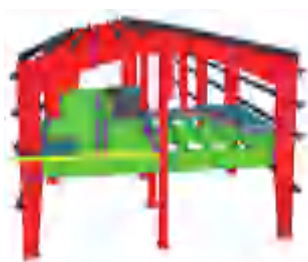
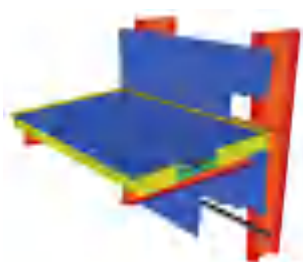
Vertical fascias consist of 200mm deep hot rolled or built-up I-section vertical posts supported by

brackets attached to sidewall or endwall columns. Cold-formed 200 mm deep “C” section top and bottom channel girts are flush-framed to the vertical fascia posts. An intermediate “Z” girt is supplied to support a modified valley gutter, when required.

Mezzanine Systems

Mezzanines typically require mezzanine support columns, beams, joists, deck and edge angles. Mezzanine columns are usually placed along the existing main building frame lines. They support the mezzanine beams which in turn support the mezzanine joists. Mezzanine joists are normally oriented parallel to the sidewall. Joist spacing varies from 1000 mm and 3000 mm depending on the mezzanine, deck profile and applied loads.

The mezzanine columns, beams and joists are designed to withstand the mezzanine live load, the weight of a 100 mm thick reinforced concrete slab, and the weight of the deck. Additional dead loads, collateral loads and floor finish loads, if present, must be advised to BETA Steel by the client to be considered in the mezzanine design.





CONSTRUCTION NUGGET

“IT IS NOT THE BEAUTY OF THE BUILDING YOU SHOULD LOOK AT: IT’S THE CONSTRUCTION OF THE FOUNDATION THAT WILL STAND THE TEST OF TIME.”

– David Allen Coe

ERECTION

BETA Steel Structure is one of the most successful companies in Egypt & East Africa in the field where we have the best erection team characterized by quality ,speed ,skill and vast experience in the field.

BETA Steel Structure founder has more than 15 years experience in the erection field with all types of steel projects.

BETA has many crews and foremen with experience of about 20 years in Zamil Egypt and Gulf. BETA is also characterized by undertaking special projects such as steel strengthening, removal and change of sheeting.



OUR PROJECTS

CONSTRUCTION NUGGET

“USE THE BEST POSSIBLE MATERIALS, AND REVEAL THE QUALITY OF THOSE MATERIALS AND THE CRAFTSMANSHIP OF THEIR ASSEMBLY.”

– Professor Sir Edmund Happold



DAIMA MILK AND DAIRY PRODUCT

Scope of work: Installation of 1000 ton of steel and 20,000 m2 of sheetings (4 Buildings) Supplied by Zamil steel Egypt

LOCATION

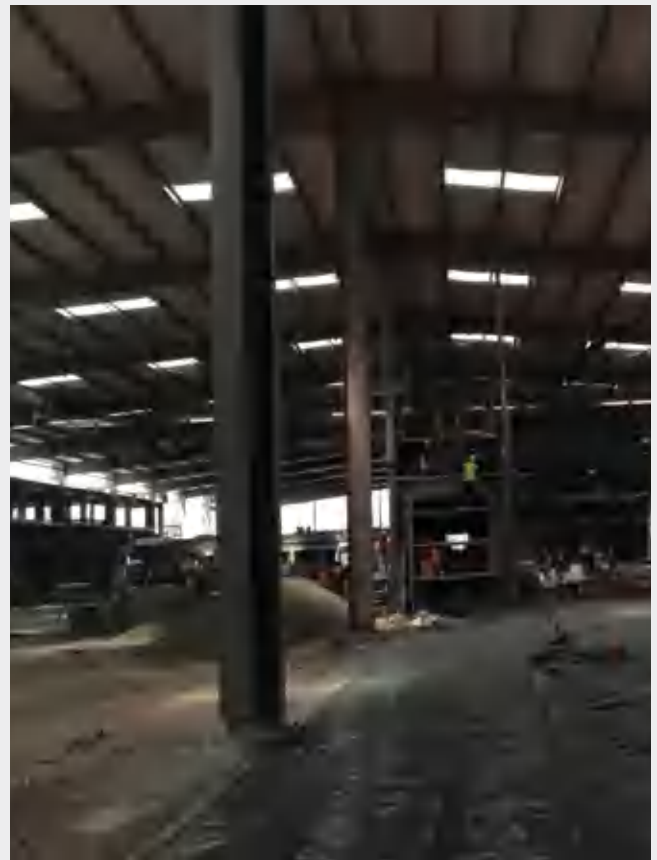
Salga, Nakuru

INSTALLATION PERIOD

3 months
(Feb 2017 - May 2017)

PROJECT NAME

Daima Dairy Plant





DAIMA MILK AND DAIRY PRODUCT

Scope of work: Installation of 6500 m² sandwich panel 100 and 120 mm THK. For roof and partations..
Supplied by Emarties panel

LOCATION

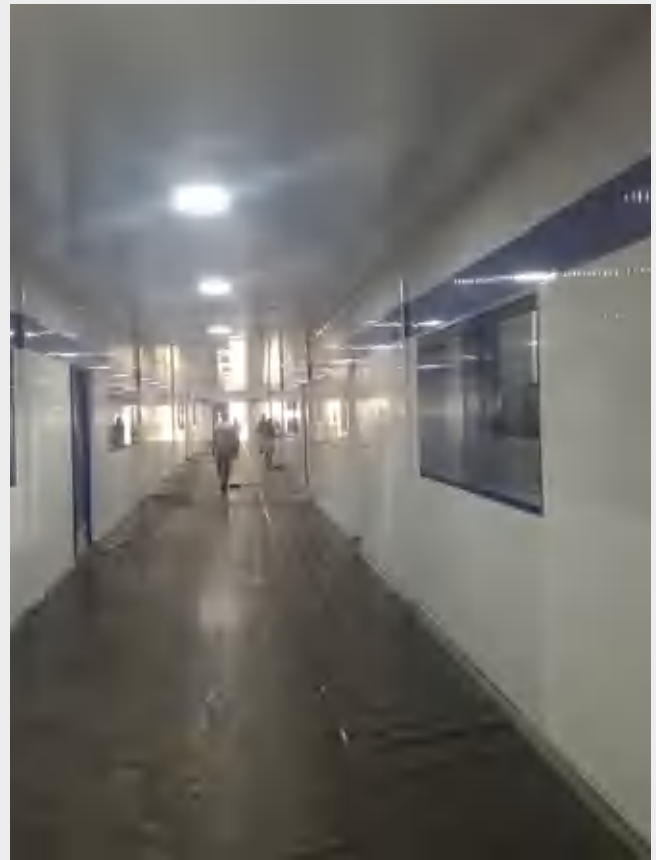
Salga, Nakuru

INSTALLATION PERIOD

3 months
(July 2017 - Sep 2017)

PROJECT NAME

Daima Cold store





SPACE AND STYLE LIMITED

Scope of work: Installation of 100 ton of steel and 5000 m² of sandwich panel supplied by icon Egypt

LOCATION

Juja, Kiambu

INSTALLATION PERIOD

6 weeks
(Feb 2018 - March 2018)

PROJECT NAME

Space and Style Go-down





VISIONONE INDUSTRIES

Scope of work: Installation of 320 Ton of steel and 12,000 m² of sheetings (4 buildings).
Supplied by Mabani Steel UAE

LOCATION

Nakuru, Kenya

INSTALLATION PERIOD

16 Weeks
(Feb 2018 - June 2018)

PROJECT NAME

Office block and Go-downs





GOVERNMENT OF SOUTH SUDAN

Scope of work: Installation of 3000 Ton of galvanized steel with double layer of covering sheets each layer is 66,000 m².
Supplied by Zamil Steel Egypt

LOCATION

Atbara, North Sudan

INSTALLATION PERIOD

1 year
(Jan 2018 - Jan 2019)

PROJECT NAME

National project for milking in Sudan





GIANT MILLERS LIMITED

Scope of work: Design and supply and installation of 150 ton of steel and sandwich panel and different type of covering with multi-story building 18 m height with 3 floors and 2 Go downs.

LOCATION

Thika, Kiambu

INSTALLATION PERIOD

3 months
(Jan 2019 - March 2019)

PROJECT NAME

Giant Maize Milling Tower & Go-downs





WESTPORT INDUSTRIAL CITY

Scope of work: Design and supply and installation of 100 ton of steel with roof sheeting (9 Go downs)

LOCATION

Ruiru, Kiambu

INSTALLATION PERIOD

6 weeks
(Jan 2021- Feb 2021)

PROJECT NAME

Westport Go-downs





OMINET LIMITED

Scope of work: Design and supply and installation of 40 ton of steel with new design system to carry Decra sheeting

LOCATION

50 Raphta Road,
Westlands, Nairobi

INSTALLATION PERIOD

3 weeks
(May 2021 - June 2021)

PROJECT NAME

Retail Center and Football Pitch





JUBILEE FEEDS

JUBILEE FEEDS INDUSTRIES LIMITED

Scope of work: Design and supply and installation of 500 ton of steel and sheetings and different type of covering with multi-story building 36 m height with 5 floors (different types of floor cover steel metal deck for 2 floors and chquered plates for 3 floors) and 2 Go downs.

LOCATION

Thika, Kiambu

INSTALLATION PERIOD

6 months
(Feb 2021 - July 2021)

PROJECT NAME

Jubilee Feeds Milling Tower & Go-downs





CONSTRUCTION NUGGET

“GOOD BUILDINGS COME FROM GOOD PEOPLE, AND ALL PROBLEMS ARE SOLVED BY GOOD DESIGN.”

– Stephen Gardiner

OUR CLIENTS



CONTACT US

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