Trisphere Integrated

Company Profile

Design, fabrication, supply and erection of pre-engineered steel buildings and steel structures.

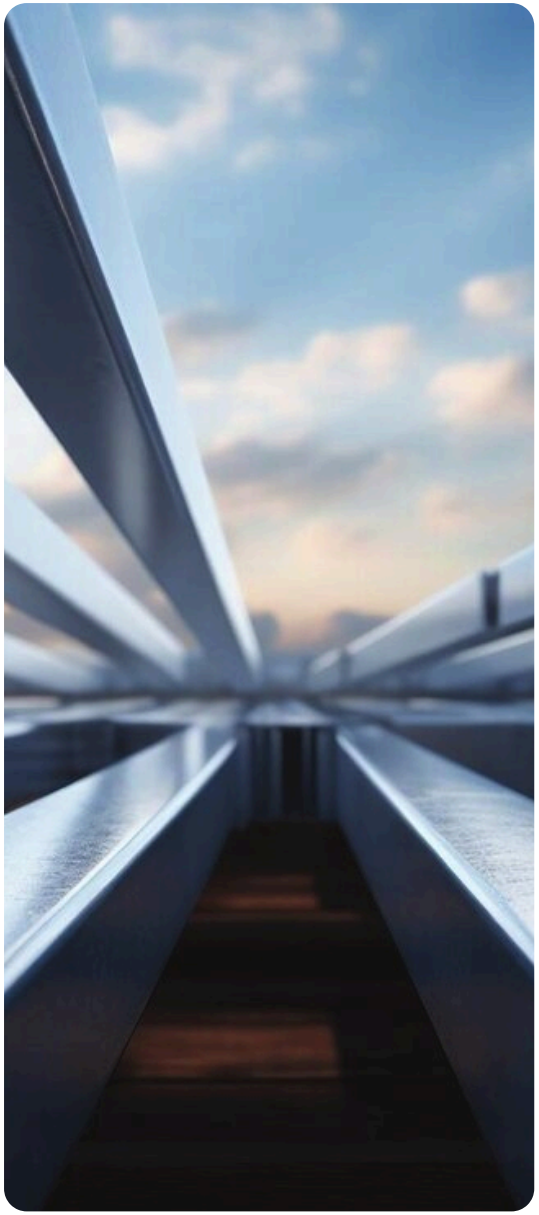
Jordan | Iraq | Sudan | KSA



WWW.TRISPHERECO.COM

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WHO WE ARE

About Us

Leadership and Excellence in the World of Steel Industries

Trisphere Integrated Company provides coordinated solutions for the design, fabrication, supply and erection of steel buildings, including pre-engineered buildings, specialized facilities and pedestrian bridges. We focus on practical engineering, precision and quality aligned with project requirements and applicable standards.

We take pride in executing every project with the highest levels of precision and quality, in line with international standards. This is driven by continuous investment in the latest equipment and technologies, and by a team of highly qualified engineers and technicians who deliver comprehensive, innovative solutions that meet all our clients' needs.

6+
COUNTRIES SERVED

4
FACTORIES · 3 OPERATIONAL + KSA

62
FEATURED PROJECTS

ISO
9001 & 14001 CERTIFIED

OUR MANUFACTURING FOOTPRINT

Jordan
OPERATIONAL FACTORY

Iraq
OPERATIONAL FACTORY

Sudan
OPERATIONAL FACTORY

Saudi Arabia
FACTORY UNDER CONSTRUCTION

WHAT WE DO

Our Services

We specialize in providing **design, manufacturing, supply and erection** services for pre-engineered steel buildings, using the best engineering software accredited locally and internationally.

Complete designs are prepared in the factory; components are then transported, assembled and lifted at the project site using the necessary equipment and machinery. This modern technology is highly efficient and can reduce the total weight of a building by up to **30%** compared with conventional steel buildings.



1 Design **2 Fabrication** **3 Supply** **4 Erection**

OUR SERVICES INCLUDE

- Industrial buildings
- Heavy industry buildings
- Airports & passenger terminals
- Power plants
- Exhibition centers
- Retail buildings
- Cold storage facilities
- Towers
- Other steel structures

WHY PEB

Advantages of Pre-Engineered Buildings

50%
FASTER PROJECT DELIVERY

30%
LIGHTER STRUCTURE

6–8
WEEKS AVERAGE CONSTRUCTION

30%
LOWER COST PER M²

01

Reduction in Construction Time

Buildings are typically delivered within a few weeks of drawing approval. Foundations and anchor bolts are cast in parallel with fabrication, so the site is ready for erection on arrival. PEB can cut total project time by at least 50%, enabling faster occupancy and earlier revenue.

02

Lower Cost

A systems approach delivers significant savings in design, manufacturing and on-site erection. Secondary members and cladding nest together for shipping, reducing transportation costs.

03

Flexibility of Expansion

Buildings can easily be extended in length by adding bays. Expansion in width and height is also possible when the structure is pre-designed for future growth.

04

Quality Control

Every component is manufactured in the factory under controlled conditions, ensuring consistent, certified quality on every project.

PEB vs Conventional Steel Buildings

Properties	Pre-Engineered Steel Building	Conventional Steel Building
Erection Time & Cost	The erection process is faster and much easier, with very low equipment requirements.	Typically around 20% more expensive than PEB; erection cost and time are hard to estimate accurately, and erection is slow, labour-intensive and needs heavy equipment.
Seismic Resistance	Low-weight, flexible frames offer higher resistance to seismic forces.	Rigid, heavy frames do not perform well in seismic zones.
Overall Cost	Price per square metre can be up to 30% lower than a conventional building.	Higher price per square metre.
Architecture	Outstanding architectural design at low cost, using standard architectural details and interfaces.	Special architectural features must be developed for each project, often requiring research and resulting in higher cost.
Future Expansion	Future expansion is very easy and simple.	Future expansion is tedious and more costly.
Safety & Responsibility	Single source of responsibility — the entire job is done by one supplier.	Multiple responsibilities can raise disputes when components do not fit, material is insufficient, or parts fail at the supplier/contractor interface.

PEB vs Conventional Steel Buildings

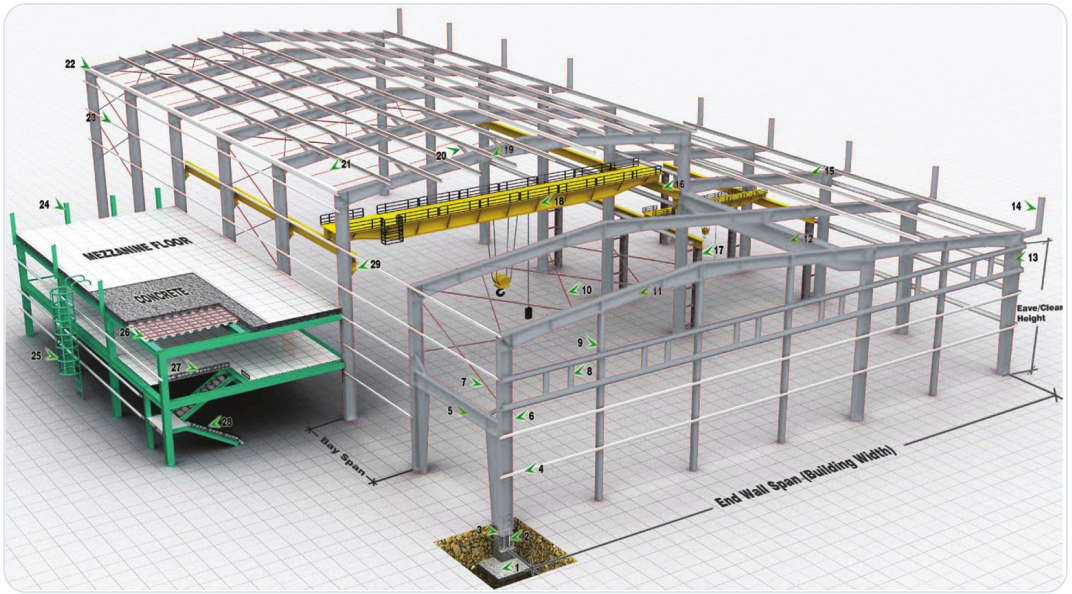
Properties	Pre-Engineered Steel Building	Conventional Steel Building
Structural Weight	On average 30% lighter thanks to the efficient use of steel. Secondary members are light roll-formed “Z” or “C” sections.	Primary members are, in many segments, heavier than the design actually requires. Secondary members are selected from standard hot-rolled sections, which are much heavier.
Design	Quick and efficient: PEBs are formed by standard sections and connection designs, so design time is significantly reduced.	Each conventional steel structure is designed from scratch, with fewer design aids available to the engineer.
Construction Period	Average 6 to 8 weeks.	Average 20 to 26 weeks.
Foundation	Simple design, easy to construct and light in weight.	Extensive, heavy foundations are required.
Erection & Simplicity	Connections are standard, so the erection learning curve gets faster with each subsequent project.	Connections are normally complicated and differ from project to project, increasing the erection time of the buildings.

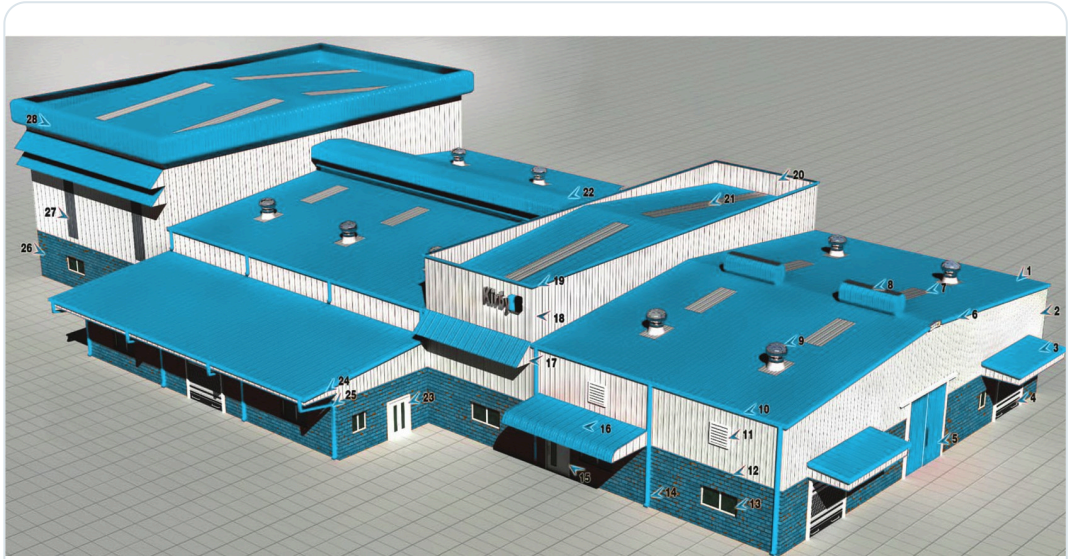
Types of Main Frame

The Main Frame

The main framing consists of the building's rigid steel frames. In Pre-Engineered Buildings (PEBs), the rigid frame typically includes **tapered columns and tapered rafters**, known as built-up members.

These tapered sections are fabricated using advanced technology, with flanges welded to the web. Splice plates are welded to the ends of the tapered sections, allowing the frame to be assembled by bolting the splice plates of adjoining sections together.





Built-up
TAPERED "I" MEMBERS

Bolted
SPLICE-PLATE CONNECTIONS

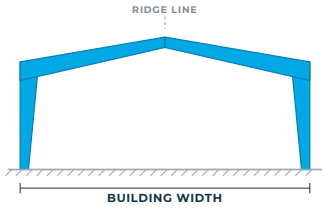
FRAME CONFIGURATIONS

Types of Main Frame

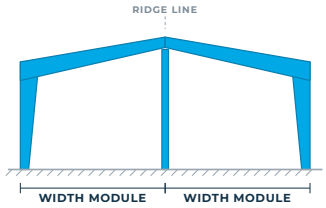
All rigid frames are constructed from welded built-up **“I” sections** or hot-rolled sections. Columns and rafters may have either uniform or tapered depths, according to design requirements.

Flanges are connected to webs using a continuous fillet weld on one side. All endwall roof beams and endwall columns are fabricated from cold-formed **“C” sections**, mill-rolled sections or built-up “I” sections, as dictated by the design.

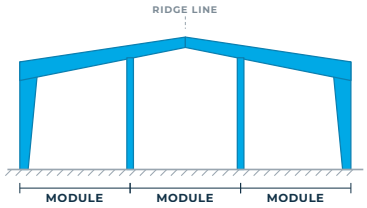
All base plates, splice plates, cap plates and stiffeners are factory-welded to the structural members.



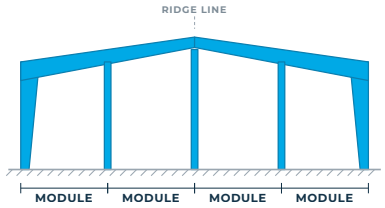
01 Clear Span



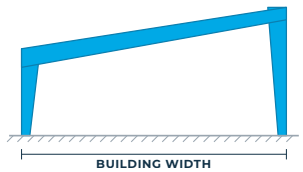
02 Multi-Span 1



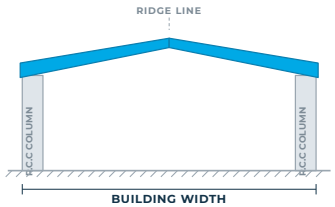
03 Multi-Span 2



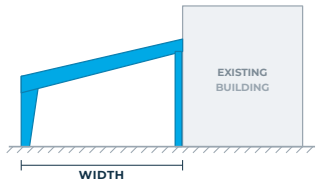
04 Multi-Span 3



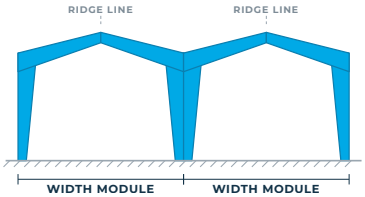
05 Single Slope



06 Roof System



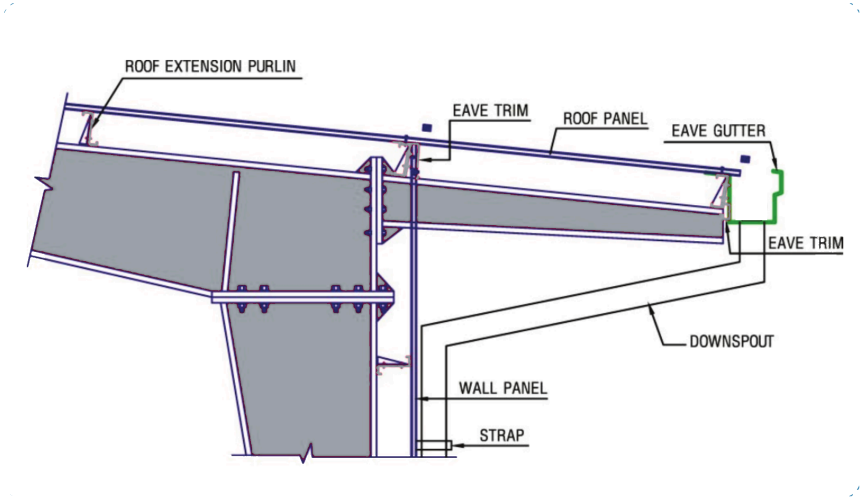
07 Lean-To



08 Multi-Gable

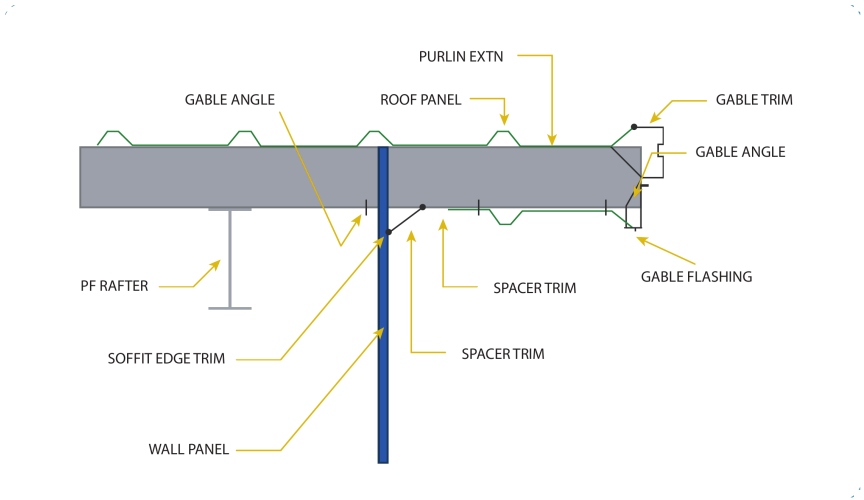
Types of Secondary Members

1 Sidewall Roof Extension



An overhanging or projecting roof structure located at the eave level along the sidewall of the building. It is supported at one end only.

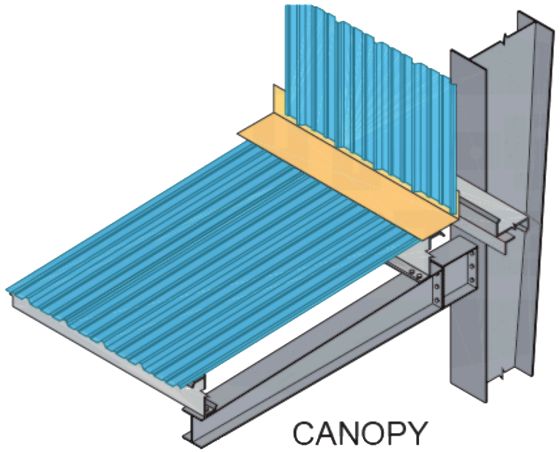
2 Endwall Roof Extension



An overhanging or projecting roof structure located at the front or rear endwall of the building. It is supported at one end only.

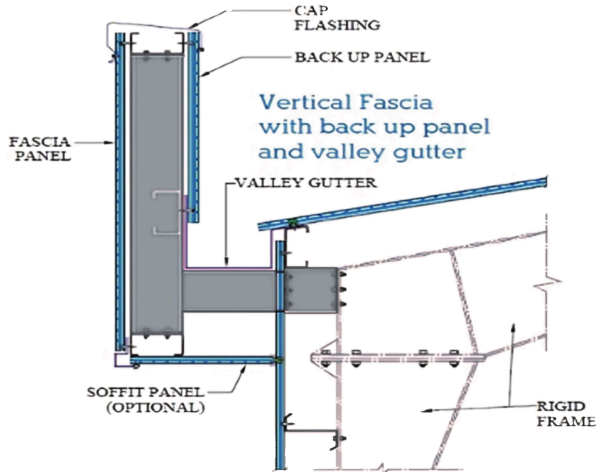
Types of Secondary Members

3 Canopy



An overhanging or projecting roof structure located below the eave level, supported at one end only.

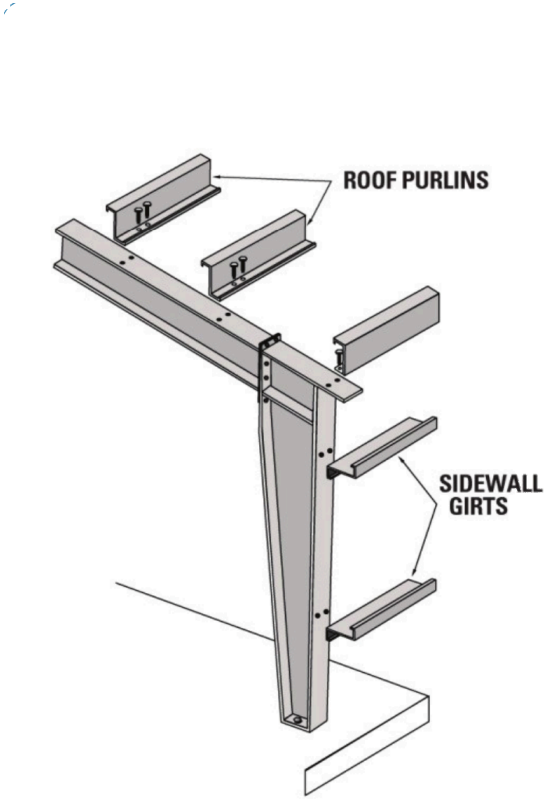
4 Fascia



An architectural accessory designed to enhance the appearance of a wall. It is also used to cover and protect the eave or gable edges of a building.

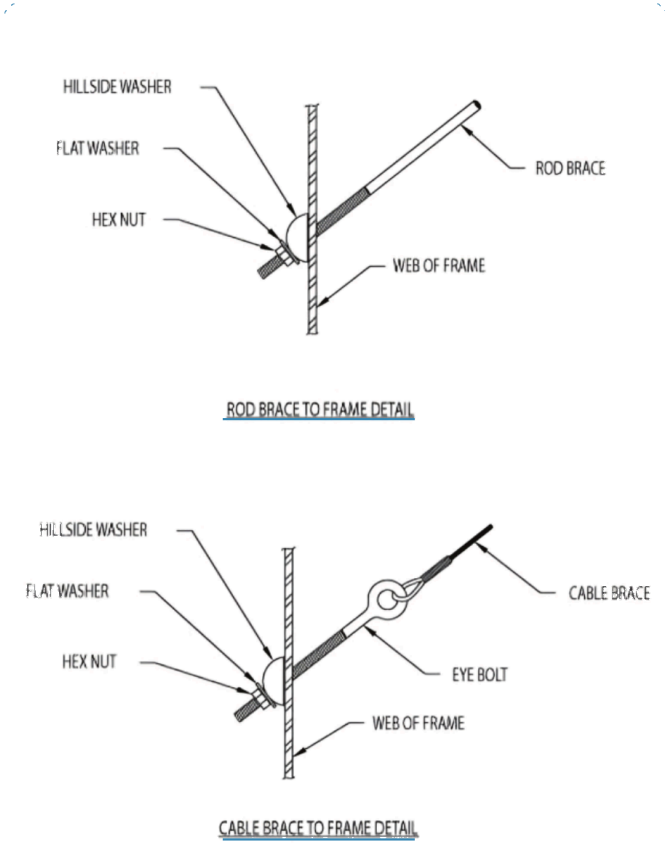
Types of Secondary Members

5 Purlins & Girts



Purlins are roof members in a “Z” or “C” shape: horizontal members that support the roof covering and carry loads to the primary frame. Girts are their wall equivalent, attached to sidewall or endwall columns to support panelling, bolted to the top or bottom of the clip.

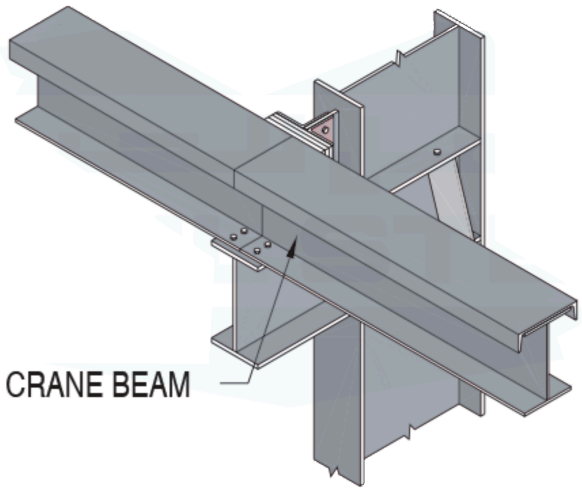
6 Bracings



Cable or rod bracing is a primary member that ensures the stability of the building against forces in the longitudinal direction, such as wind, cranes and earthquakes. Diagonal bracing is used in the roof and side walls.

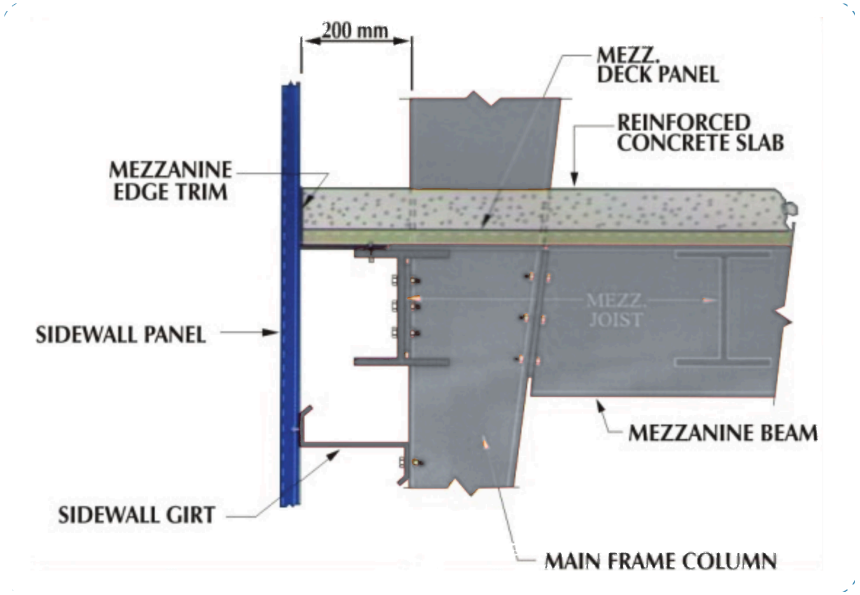
Types of Secondary Members

7 Crane



A crane system greatly improves material-handling productivity within a building, promotes safety, and allows more efficient use of space by reducing or eliminating traffic from forklifts and side loaders.

8 Mezzanine



An intermediate floor installed between the main floor and the ceiling, partly open to the main floor. Mezzanines can be permanent or temporary and serve as extra office space, storage or a work platform.

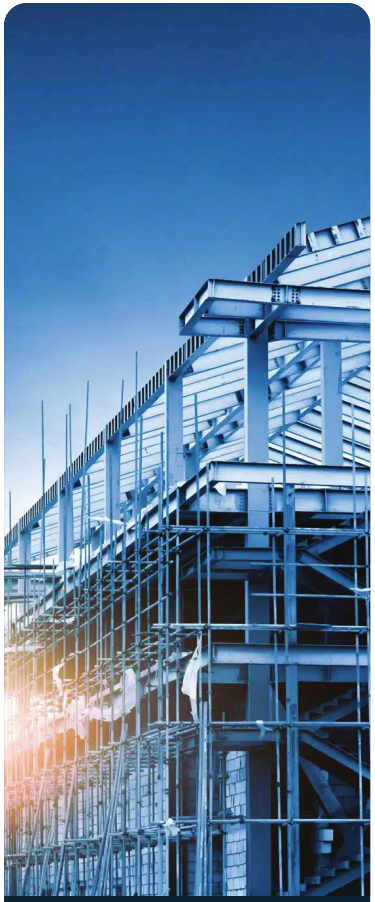
MAJOR CLIENTS

Our Clients

Trusted by giga-projects, healthcare and industrial groups, and leading contractors across the Kingdom of Saudi Arabia.

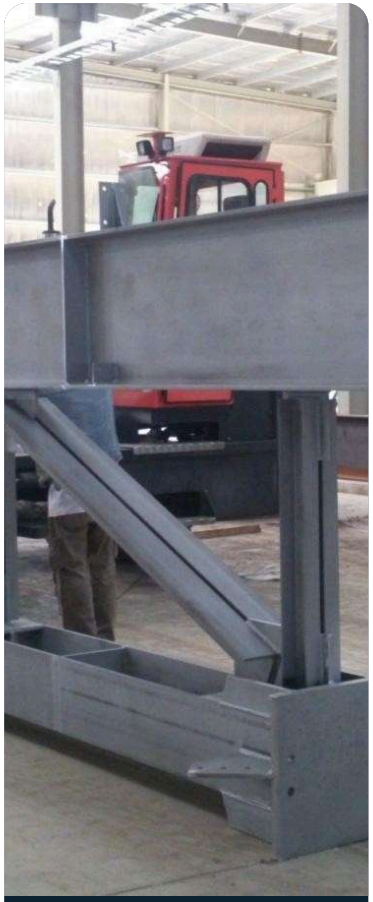


Products Delivered To KSA



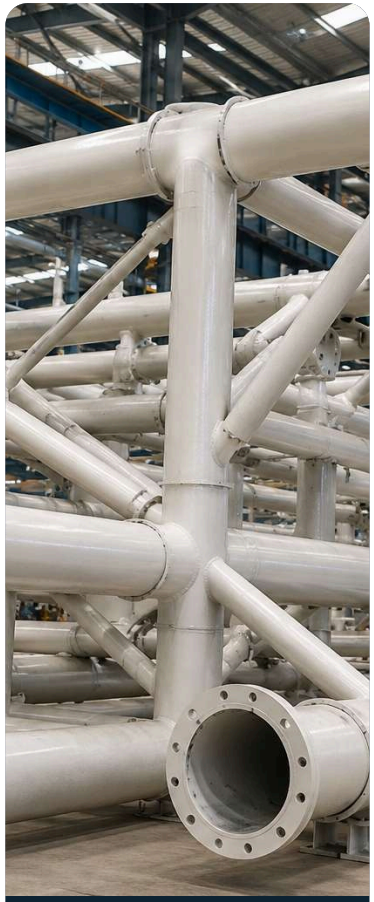
DELIVERED
1,037,000 Tons

PEB



DELIVERED
244,000 Tons

Miscellaneous Structure



DELIVERED
21,960

Pipe Structure



DELIVERED
6,100 Tons

Tanks Structure



DELIVERED
17,080

Bridge Structure

PRODUCTS DELIVERED TO KSA

PEB

DELIVERED

1,037,000 Tons

Complete pre-engineered steel buildings — rigid frames, purlins, girts, bracing and cladding — for factories, warehouses, logistics hubs and commercial facilities.







Trisphere Integrated

PRODUCTS DELIVERED TO KSA

Miscellaneous Structure

DELIVERED

244,000 Tons

Built-up box girders, trusses, space-frame modules, platforms and custom fabricated steel members, produced to project specifications.







Trisphere Integrated

PRODUCTS DELIVERED TO KSA

Pipe Structure

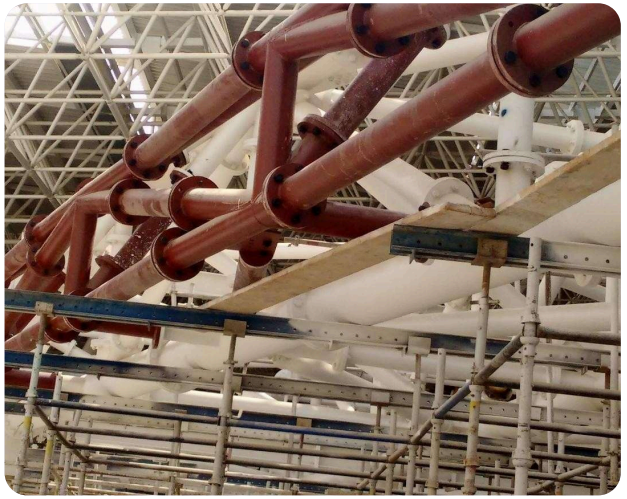
DELIVERED

21,960

Pipe racks, pipe bridges and supporting structures for industrial, petrochemical and utility plants.







Trisphere Integrated

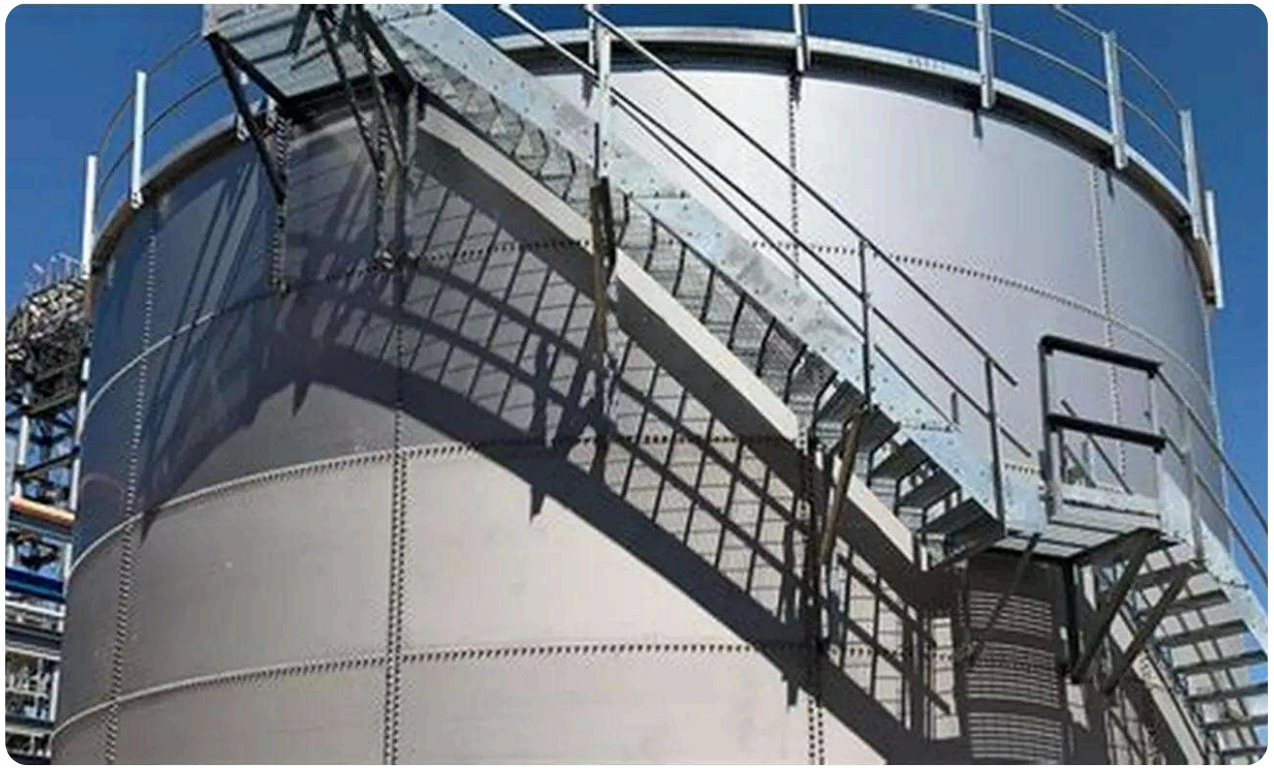
PRODUCTS DELIVERED TO KSA

Tanks Structure

DELIVERED

6,100 Tons

Steel storage tanks with shell courses, roofs, spiral stairways and platforms for water, fuel and industrial storage.







Trisphere Integrated

PRODUCTS DELIVERED TO KSA

Bridge Structure

DELIVERED

17,080

Steel truss bridges and pedestrian bridges, fabricated and trial-assembled in the factory for fast, accurate erection on site.







Trisphere Integrated

Machineries & Capabilities



Beam Drilling Machine

All beams, square tubes and channels

CAPACITY

Drilling up to 1,200 mm width



Plate Processing Machine

Plate cutting and drilling

CAPACITY

Cutting 50 mm by plasma, 120 mm by oxy-fuel; drilling, 12 m length



Wheel Abrator | Shot Blasting

All types of steel profiles and plates

CAPACITY

9 turbines · height 1.3 m · width 3 m



Robotic Plasma Cutting Machine

All beams, square tubes and channels

CAPACITY

1,200 mm width · 40 mm thickness

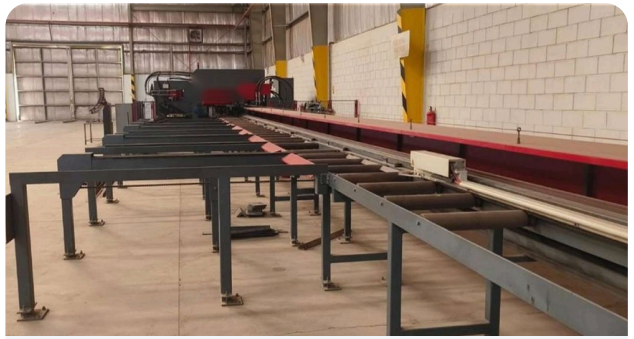


Band Saw Machine

All beams, square tubes and channels

CAPACITY

Up to 750 mm width



Angle Line Machine

Punching angles and flat bars

CAPACITY

Angles up to 200×20 mm · flat bars 350×20 mm

Machineries & Capabilities



Cambering Machine

All beams

CAPACITY

Production up to 1,000 MT



Plasma Cutting – Portable Gantry

Plate cutting

CAPACITY

Plasma up to 12 mm · oxy-fuel 60 mm · 6 m length

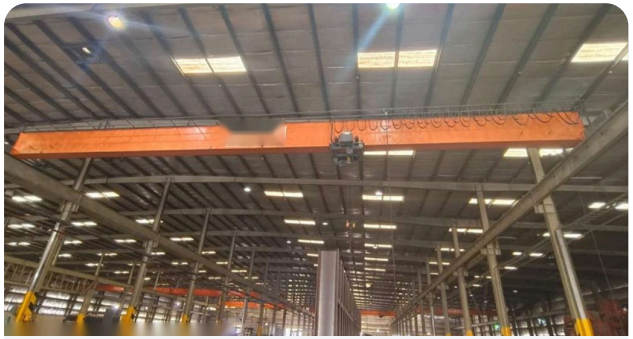


Plasma Cutting – Portable Gantry

Plate cutting

CAPACITY

Plasma up to 12 mm · oxy-fuel 60 mm · 6 m length



Overhead Cranes – 5 Ton

Bay cranes for lifting 5 tons

CAPACITY

3 overhead cranes in the factory



Overhead Cranes – 10 Ton

Bay cranes for lifting 10 tons

CAPACITY

4 overhead cranes in the factory



Welding Machines

Dual-process welding units

CAPACITY

30 pcs · 500 A dual (FCAW, SMAW)

Projects

#	CUSTOMER NAME	AREA M²	LOCATION
01	AREIC Factories	44,000	KSA
02	Al-Mashreqiya Mosque Project	4,500	KSA
03	Unicharm Gulf Hygienic Factory	6,500	KSA
04	Aber Alafaq Factory	26,000	KSA
05	Aluqee Factory	6,300	KSA
06	Alasala University Sport Center	6,000	KSA
07	Diamond Square Mall	3,200	KSA
08	RVCC Factory	7,000	KSA
09	Oriental Concrete Factory	14,000	KSA
10	United Standard	18,000	KSA
11	Standards Alliance	33,000	KSA
12	Sajeer Farms	18,000	KSA
13	Iyan Workshop	3,400	KSA
14	Saudi Oger Stores	21,000	KSA
15	Kingdom Concrete	7,100	KSA
16	Morjan Plastic Industries	2,500	KSA
17	Al Fanar Ceramic Factory	1,450	KSA
18	Al Habeab Hospital – Pedestrian Bridge	1,000	KSA

Kingdom of Saudi Arabia

18
PROJECTS IN KSA

222,950 m²
TOTAL BUILT AREA IN KSA

44,000 m²
LARGEST SINGLE PROJECT

Projects

#	CUSTOMER NAME	AREA M²	LOCATION
01	Arab Pioneers Co. & Ayn Textile for Carpet	25,000	Jordan
02	Saida Company for the Carpet Industry	24,000	Jordan
03	Rotografia Jordan Co.	19,600	Jordan
04	Al Dahlagi Est. for Food Industries	15,000	Jordan
05	Saida Company for the Carpet Industry	12,000	Jordan
06	Alshikh Trad Alfayez Warehouses	12,000	Jordan
07	Alkhalige Technical Co.	10,000	Jordan
08	National Trading & Distribution Co.	10,000	Jordan
09	Sahouri Company	9,000	Jordan
10	VIP Armouring Industry Co.	8,000	Jordan
11	Al-Dreabe and Partner Co.	8,000	Jordan
12	Arab Pioneers Co. & Ayn Textile for Carpet	7,000	Jordan
13	Berlin for Tobacco & Cigarettes	7,000	Jordan
14	Al-Jazeera Agriculture Co.	6,000	Jordan
15	Nizam Al-Baradea and Partner Co.	5,800	Jordan
16	Ahmad Haymor & Partner Co.	5,000	Jordan
17	Mr. Trad Al-Fayez	5,000	Jordan
18	Nicola Nassar & Sons Co.	5,000	Jordan
19	Kunoz Al-Sharq for the Manufacture of Carpet	5,000	Jordan
20	Saida Company for the Carpet Industry - Syria	4,000	Jordan
21	Mahmoud Al-Jalamda Co.	2,800	Jordan
22	Samer Al-Jaebary Co.	2,500	Jordan
23	Al-Anmar for Plastic Industrial Factory	2,500	Jordan
24	Jamal Abu Dayyoh Wood Trading Est.	2,500	Jordan
25	Haider and Partner Co.	2,000	Jordan
26	Al-Sheikh Naser Co.	2,000	Jordan
27	Abu Mustafa Al-Kobeasy Co.	2,000	Jordan
28	Jbara for Plastic Industrial Factory	1,800	Jordan
29	Al-Jamal for Plastic Industrial Factory	1,500	Jordan
30	Subhi Abu Ghallous for Ceramic	1,500	Jordan
31	Aseel Cloths Factory	1,200	Jordan
32	Tazweed Co.	1,200	Jordan
33	Najeh Risk for Wood Co.	1,000	Jordan
34	Nizar Sinan Co.	1,000	Jordan
35	Western Poultry Company	15,000	Egypt
36	TTC Food Products Company - Egypt	12,000	Egypt
37	Al-Qabas Plastic Co.	2,000	Egypt
38	Almaram Plastic Industries	2,000	Egypt
39	Samhouri & Diken Co.	4,000	Iraq
40	Companies of Mr. Sami Khouri	3,500	Syria
41	The Quality Carton Packing Co.	3,000	Syria
42	Alkbous Group	10,000	Yemen
43	Al-Mor for Marble and Granite	10,000	Libya
44	Water Jet Company	2,000	Eritrea

Trisphere Integrated

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