

Storage Solutions Adapted to Your Needs



ALUMINIUM & STEEL WORKS WORKSHOP LLC

[www.zamzamsteeluae.com](http://www.zamzamsteeluae.com)

# COMPANY PROFILE

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ZAMAM™ is a Steel and Aluminum fabrication unit of the group registered in the Emirates of Ajman. The company is equipped with state of art technology which includes well experienced and highly skilled staff and equipment's to offer a wide range of solutions for modern engineered structures.

The company offers economical and high quality technical solutions to fulfill the engineering design requirements with compatible system and components that guarantee long term durability, safety and outstanding performance for all types of designs that require.

## OUR SERVICES

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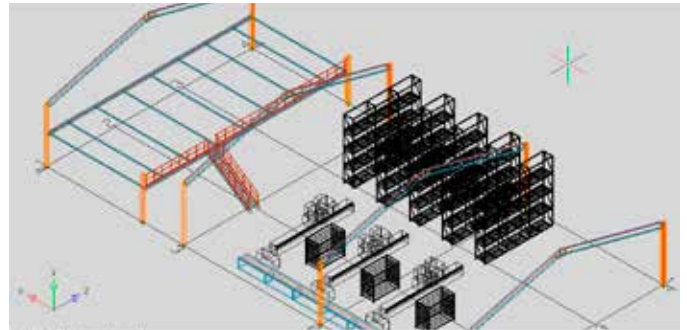
- **Site Survey**

Site survey is an inspection of an area where work is proposed, to gather information for a design or an estimate to complete the initial tasks required for a project.



- **Autocad Design**

We also provide 2D & 3D project designs for our customers to fully understand the structure.



- **Movers**

We also provide warehouse shifting services.

- Dismantling
- Transport
- Installation



## Complete Storage Systems

- Pallet Racking
- Long span Racking
- Light Duty Shelving
- Aluminum & Gypsum Partition
- Cantilever Racking
- Drive-in-Racking
- Medium Duty Racking

- Rack Support Mezzanine
- Parking Shed
- VNA (Very Narrow Aisle) Racking System

## All kinds of MS Steel Structures

- Structural Mezzanine
- Structural Sheds
- Fencing Wall
- Metal Work

Customer service & prompt attention to the requirement of site support, technical information and prompt delivery are the corner stones by which the company measures its success. The company has made its presence in many prestigious projects in the UAE. The company assures that the materials are readily available at every stage of every project. As part of the services offered, demonstration on the use of individual products is

- Readily Available
- Cost Effective Solution
- Timely Delivery & Installation
- Effective use of high Quality Material

Above all our pool of qualified, energetic and talented workers our mission is to deliver our individual customers innovative and high quality products & services at valued prices in its own individuality.

Best Regards,  
Sulman Tariq (MD)  
+971 55 8083440



# PALLET RACKING

Regular Aisle selective pallet racking Regular aisle Selective pallet racking is the best solution for warehouse where it is necessary to keep a wide variety of articles in pallets. It provides direct access to all pallets for 100% accessibility and good stock rotation.

Pallets can be located, Accessed and move individually providing rapid handling of pelletized goods. It provides easy beam adjustment and accommodates variable pallet heights.

Lower level pallets can be located on the floor for picking purposes, which reduces structure costs.

Alternatively additional shelving beams can be added for lower level picking.

This system is infinitely adjustable and offers a wide range of options and components to accommodate specialized load types. The simplest of all pallet racking storage systems provides access to every pallet.

Low cost equipment can be used offering simple adjustability and adaptability.



# HEAVY DUTY LONG SPAN RACKING

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Heavy-duty racking is the ideal solution for storing heavy-duty pelletized and non-palletized goods. It's built by pallet racking Frames, Beams or standard boxed beams with special clips and shelves. It can be incorporated into pallet racking to maximize storage capacity, Picking face and minimize storage space. Characteristics of Heavy Duty Racking:

- Heavy duty racking is a kind of assembly type industrial shelving that can be used to store various kinds of bulk cargo.
- Separate shelf frame and shelf boards are available.
- The shelf frame is installed with shims and floor fixing bolts.
- Our heavy duty racking is very safe and secure.



As a professional heavy duty racking manufacturer in UAE, Our heavy duty racking, Material handling equipment and other products are very popular in UAE, and the Middle East.



# MEDIUM DUTY LONG SPAN SHELVING

Long Span Shelving is designed for everyday use in many different applications with a simple frame, beam and shelf configuration which can be adjusted at 25mm and 50mm intervals as your option.

Long span Shelving Systems incorporates a wide range of beams and frames, Making it easy to customize to meet your precise needs. The structure is created by connecting the beams into the frames.

The beam is capable of withstanding heavy loading commonly between 300~600KG/Layer. The layers can be completed by shelf panels, Wire decking, chipboard, steel or wood, lots of high-performance accessories are also available to extend the versatility of Steel's Long span Shelving.

They can also design for multi-tier racking used for Mezzanine system or Automotive fittings.

- Longer length shelving with a heavier weight loading
- All shelves are fully adjustable at 25mm or 50mm Pitch at option
- Easily assembled in minutes
- Frames can be arranged delivered assembled
- Powder coated paint finish or we can arrange hot-dipped GAL for cold storage which is lifetime rust free
- Increase your storage space by adding extension levels & units





# CANTILEVER RACKING



## Heavy duty Cantilever Rack

is the ideal solution for storing long or heavy items such as: Pipe, Tubing or lumber. It is designed to manage loads of varying length and proportion. They can be completely accessible from the front without any of the horizontal restrictions of traditional pallet rack. Without front column obstruction, the entire length of the rack may be used for storage.

Cantilever Racks is designed for single and double sided Tower use. Towers are pre-punched on both sides for customized usage.

## The Base

- A horizontal base is bolted to a column
- Horizontal base use expansion anchor bolts to connect the floor
- Base made from High Tensile Steel
- If needed, we will use Stiffener to increase the capacity.

## The Arm

- Cantilever arms are the heart of the rack system. Proper selection can make or break a successful storage plan.
- Arms can be adjusted on 50~100mm centers up and down the upright and are available in many colors.
- We have a number of arms for options.

# DRIVE-IN-RACKING



Drive-In racking is used where high-density storage is required. It is frequently used in facilities with a low number of product lines. Pallets are stored in a block system with a reduced number of aisles. Fork-lifts drive into the racking between uprights to load or retrieve pallets.

The first pallet in is the last one out High-density storage with minimal aisle space allowing maximum cubic storage space Drive-In Racking is ideal for;

- Bulk Storage.
- Cold storage applications - to store as many pallets in as little expensive freezer space as possible.
- A large amount of similar items that can be stored in a single pallet position and accessed last-in, first-out.
- Seasonal items that move quickly out of your inventory.
- If you don't store a wide variety of loads in the rack.
- Easily damaged or fragile loads, which cannot be block stacked.

Drive-In Racks allow a forklift to enter the rack from one side to pick up or pull out pallets. This is done because pallets can slide backwards on a continuous rail. Forklifts drive into the rack to access pallets. This is a last-in, first-out arrangement for your pallets. Drive-In Racking can be used by any forklift trucks. Self-centered rails automatically position pallets quickly and safely. This ensures that pallets are presented correctly to the operator, promoting safe handling, ease of use and reducing damage to the rails and uprights.



# LIGHT DUTY SHELVING

The angle shelving is economical ,easy to install, nice looking , flexible composition and wide usage, Our Adjustable Angle Iron Shelving is the ideal storage system when Adjustability is required.

Used universal angle iron as the upright, is assembled by connective or inserting, Method for convenient installation.

The adjustable distance of steel shelf panel is 50mm apart for multiple usage.

Strong and stable, with a wide range of shelf sizes, Our Adjustable Angle Iron Shelving will support weights ranging from 50 kg to 100kg per shelf ,evenly distributed.

Single bays can comfortably support a total weight of 500 kg.



# BOLT FREE SHELVING

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The Bolt Free Shelving is economical, easy to install, nice looking, flexible composition and wide usage, Our Adjustable Shelves is the ideal storage system when Adjustability is required.

Used iron upright, is assembled by connective or inserting, Method for convenient installation.

The adjustable distance of steel shelf panel is 25mm apart for multiple usage.

Strong and stable, with a wide range of shelf sizes, Our Adjustable Shelving will support weights ranging from 50 kg to 150kg per shelf, evenly distributed.

Single unit can comfortably support a total weight of 600 kg.





# RACK SUPPORT MEZZANINE



For indicating the space economization, Mezzanine can be used in many conditions. Mezzanines are stand alone structures. Mezzanines maximize clear space both on top of and below the mezzanine. Mezzanines are available in a number of configurations.

Free standing mezzanines do not have these structural reinforcements, but make use of columns to support the mezzanine and the weight of its load. The mezzanine is extensively used in the condition of high warehouse, small goods, manual access.

It can make full use of the space and save the area of the warehouse. According to the actual field and specific requirements, it could be designed as single or multiple mezzanine, normally 2-3 layers. It is specifically used for sorting storage of automotive fittings, electronic devices.

It could carry about 500KG/Square Meters and other special usage can be deigned by us. The general ways of transportation from 2nd floor to 3rd floor are: manual, elevating table, hoisting machine, conveying belt, forklift, etc.





# VNA (VERY NARROW AISLE) SYSTEM



Very Narrow Aisle pallet racking makes optimum use of floor area and roof height while at the same time providing high density storage with 100% accessibility and good stock rotation. The system is served by specialized high forklift rotating material handling devices operating in very narrow aisle.

The benefit being up to 50% saving in aisle width when compared to counter balance forklift, whilst achieving up to double the stacking height.

AS the forklift is guided within the aisle the risk of damage is minimized, resulting in lower maintenance. Very flat floors, close tolerance racking, carefully located pallets of uniform size and stock location systems are all prerequisites for successful narrow aisle systems.

Floor guidance in the aisles is mandatory and the design interface between all aspects of their systems is needed.

## Advantages

- Floor mounted free roaming trucks as flexible in multi-aisles
- High speed through put with specialized equipment.
- Controlled material handling provides safe and damage free environment.
- High average locations used 95%, for 100% accessibility , good stock rotation and 50% floor utilization with high cube available

# STRUCTURAL MEZZANINE (PLATE FORM) \_\_\_\_\_



Steel Structure Shed, In modern construction style steel structure is provide the basic strength of buildings.

Protect for Earth quick & ready made members available for quickly installations.

For warehouse storage & space for workshops. Steel structure provide you big span of roofing.

Industrial or storage areas which require for warehouse space.

Directly on the ground floor. Columns & Main beams are made by (UC, UB) and the Z-Purling & Roofing are made by Profiles with single Sheets or sandwich panels with PU foam for protect the Heat & Cold weathers.

Design of structure are based on the wind load pressures, Soil test etc.

- Additional space can be created for free style storage. Goods can be stored with or without pallets and racks;
- Pillars of pipes or tubes (RHS,SHS) with "I" beam to form up the basic



# STRUCTURAL SHED

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Steel Structure Shed, In modern construction style steel structure is provide the basic strength of buildings.

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# ALUMINUM WORK



## ALUMINUM EXTRUSION FOR MODERN LIFE CONSTRUCTION:

- Quickly fabrication & assembled at any place.
- Rust free material with powder coated finish
- Easy to dismantling & shifting in re assembling
- Combination of Glass & Sheets
- Top suspended ceiling with Lights
- Aluminum doors & windows light weight & long life against wooden material
- Wall cladding of buildings, Aluminum skids for outdoor



# PALLETS (CONVERTER & REGULAR)



- We are the largest cold storage galvanized pallet converter suppliers in the middle east.
- Fully automated pressed steel for galvanized converters.
- Manufactured to strict industrial standards.
- Heavy gauge quality steel to astm a 36 used for fabrication of brand cold storage galvanized converters.
- Heavy mig welding on for cold storage galvanized converters ensures long life.
- Heavy hot dip galvanizing gives our galvanized cold storage converters very long life and rust free environment.
- Our superior quality has made us the best choice for galvanized cold storage converters.



## PALLETS (CONVERTER & REGULAR)

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- We are the largest pallet making suppliers in the middle east.
- Manufactured to strict industrial standards.
- Heavy gauge quality steel used for fabrication.
- Heavy mig welding ensures long life.
- Gives our powder coating very long life and rust free environment.
- Normal and cool storage pallets made with tubes & sheets bending process.



# FABRICATION & QUALITY PROCEDURES

## QUALITY CONTROL

The quality of the product ZamZam offers its customers is based on the various controls carried out in the Quality Management System in the different phases of the production and commercialization process.

## RAW MATERIAL

Our knowledge of steel, obtained as a result of extensive experience, provides us with the necessary basis to use the most adequate quality for each product. In order to manufacture the elements of the racking system and according to the requirements of every component, different qualities of steel are used with guaranteed minimum elastic limits that vary from 235 N/mm<sup>2</sup> (S235JR according to EN 10025) to 420 N/mm<sup>2</sup> (S420MC according to EN 10149), and 355 N/mm<sup>2</sup> (S355MC according to EN 10149).

Each manufactured product is associated to a minimum raw material specification and it is received together with its quality certificate which is verified in each receipt.

## THE MANUFACTURING PROCESS

ZamZam has the latest technology to manufacture storage systems for heavy and medium loads. The automation level reached in the production process is the basic guarantee for the quality and reliability of our product. The production process automation is also a guarantee for repetitive and unified manufactured parts. This requirement, inherent to the line, is reinforced with controls set for each operation. From profiling to painting, each operation which changes any product properties is routinely checked, either manually or automatically, in order to ensure a strict quality standard.

## ROLL FORMING

A profiler that is technologically up-to-date, robust, versatile and allows for a strict control of the dimensions of the profile, ensures that the product is always within the parameters of established quality.



## WELDING

The process of automated welding guarantees the repetitiveness of the processed parts with controls within the cell itself thereby guaranteeing the quality of the product. In the same way, the automated system gives a uniform welding with an excellent artificial finish. The final unit control of 100% of the welded parts using state of the art techniques, discards any possible defect in this operation; these aspects being of vital importance in the performance of the beam when supporting loads. The Welding procedure has been approved in accordance with the regulations. The welding between the profile of the beam and the connector is one of the critical components of the pallet racking.



Zam Zam does the quality control of this operation automatically using high technology: The position and the continuity of the welding is verified by unit 100% of the parts produced, ensuring the absence of cracks and defects during the welding process.



## PAINTING

The uprights and beams are painted via automatic processes where they undergo previous phases of degreasing, phosphated and washed with 100% osmotised water. This eliminates the possibility of the appearance of impurities which could lead to corrosion. The deposition of paint is carried out via an electrostatic application in an automated cabin. For that reason, paint in the form of powder made of epoxy-polyester is used followed by curing in an oven. The uprights are painted as standard in BLUE and the Beams in ORANGE, with the possibility of using other colours. Frame Protectors and other preventive elements are painted in YELLOW. All our paintings are 100% lead-free and have been approved as M1 in terms of performance in the case of fire according to the regulation. The state of the treatment baths (temperature and concentration) and the cleaning, the temperature of the oven and the analysis of the layer of paint in different walls of each part, controlled hourly ensure a uniform finish of our products.



# MISCELLANEOUS WORK



PARKING SHED (CLOTH)



PARKING SHED (SHEET ROOF)



OUT DOOR FENCING



IN DOOR FENCING



FLOOR COATING



METALWORK



OUT DOOR CABINS



AC, ELECTRIC ETC.



METAL CAGE PARTITION



# PRODUCT SPECIFICATION



## Heavy Duty Upright Frame

Upright size 90 x 70 x 1.6 ~ 1.8mm thick  
Height Frame 8000 x up to 1500mm  
(Finish: RAL 5015 / Special color on demand)



## Galvanized Upright

Upright size 90 x 70 x 1.6 ~ 1.8mm thick  
Height Frame 8000 x up to 1500mm  
(Finish: Galvanize)



## Heavy Duty Beam Sections

90/100/110/120/130/140/150x50x1.5mm thick  
Length of Beam up to 4500mm  
(Finish: RAL 2000/2004 / Special color on demand)

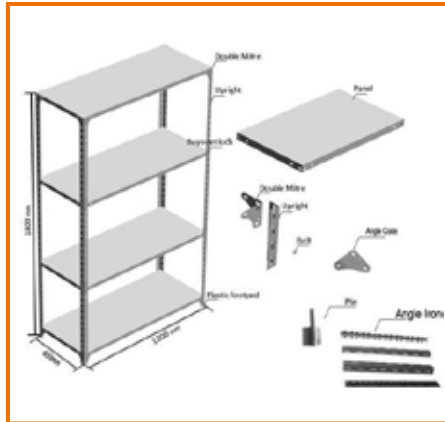


## Medium Duty Upright Frame

55 x 50 x 1.5mm thick  
Height Frame 3000 x up to 900mm  
(Finish: RAL 5015 / Special color on demand)

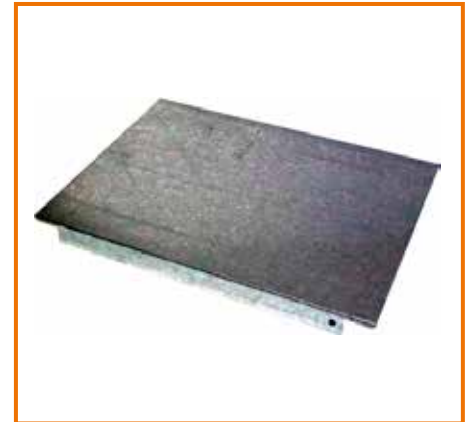
## Medium Duty Beam Sections

Box 50x50x1.5mm / 40x40x1.5mm  
Length of Beam up to 2400mm  
(Finish: RAL 2000/2004 / Special color on demand)



## Light Duty Rack Members

Slotted Angle: 40x40x1.6~1.8mm / 60x40x1.6~1.8mm  
(Finish: Galvanized & Powder coated)  
Shelves: Length up to 1500 x 600mm  
(Finish: Galvanized & Powder coated)



## Galvanized Panel

Thickness: 0.9-1.5  
Length: upto 1200mm  
Width: 300-600mm



# ALUMINUM & STEEL WORKS WORKSHOP LLC

Mobile: +971 55 9840 999, Tel: +971 6 7481 681, Fax: +971 6 7481 641

P. O. Box: 5988 Ajman, New industrial Area, Ajman - U.A.E.

E-Mail: [info@zamzamsteeluae.com](mailto:info@zamzamsteeluae.com), Website: [www.zamzamsteeluae.com](http://www.zamzamsteeluae.com)