Rawafid Alssalb Factory CO Buildings & Steel Structures

شركة روافد الصلب للمباني و الإنشاءات الحديدية

Structure Steel Works

Bridges and Gantries

Plate works (Silos - Tanks)

Pre-Engineered Buildings

Contact info

CONTENT

WHO WE ARE

RAWAFID ALSSALB specializes in the **design, fabrication, painting, delivery, and erection of steel structural works**.

RAWAFID ALSSALB is a specialized facility in the **engineering, fabrication, surface treatment, and erection of various heavy steel structural works and steel products**. It is located in ----------. The RAWAFID ALSSALB facility was established on a total area of **---------**, including **---------- of enclosed workshops**.

It is a **high-tech facility**, integrating **design, fabrication, surface treatment, and erection**. Our factory is equipped with all standard tools, equipment, and machinery as described in this profile.

The team of RAWAFID ALSSALB consists of **highly qualified engineers, technicians, and skilled workers** who accomplish client requirements with **high-quality standards** and within the **stipulated time**.

The **Engineering Department** is supported by experienced engineers and equipped with **state-of-the-art software** to carry out design and shop fabrication drawings, applying innovative engineering solutions to create efficient and customized designs that meet customer requirements.

The management of RAWAFID ALSSALB is committed to the **ISO 9001:2015 Quality Management System** to ensure quality products and professional services for its valued clients. RAWAFID ALSSALB also maintains an uncompromising commitment to **health, safety, and product safety** for its employees, customers, and clients.

RAWAFID ALSSALB is well known for its capability in delivering a **wide range of steel structural works** for industrial, commercial, and infrastructure projects.

- **STRUCTURAL STEEL BUILDINGS**
- **STORAGE TANKS AND SILOS**
- **BRIDGES AND GANTRIES**
- **PRE-ENGINEERED BUILDINGS**

The company applies **QA/QC procedures**, conducting inspections to ensure that materials and final products comply with **contract specifications, applicable codes, and standards**.

VISION

As a newly established company in the steel structures and civil construction sector, **RAWAFID ALSSALB** aims to become a leading provider of innovative, high-quality, and reliable construction solutions. We strive to continuously improve our services, expertise, and capabilities to meet and exceed client expectations. Our goal is to build a reputation for **excellence, safety, and professionalism**, contributing to the growth and development of the regions we serve.

MISSION

- To educate and engage our employees and stakeholders to fully embrace **Integrated Management System (IMS) policies, standards, and procedures**.
- To foster a culture where **IMS is a core value** in all aspects of our work.
- To ensure that all business activities are conducted in a **healthy, safe, and environmentally responsible** manner.
- To continually enhance our **products, services, and IMS performance**.
- To be a company where **IMS goals and results** are as important as other corporate objectives, promoting excellence across all operations.

VALUES

- **ISLAMIC ETHICS**
  We conduct our business guided by **Islamic moral values**, including integrity, fairness, and honesty. We prevent cheating, corruption, abuse of power, and ensure the rights and concerns of our employees are treated fairly.
- **INTEGRITY**
  We earn respect by consistently embracing fairness, trust, and honesty in all our relationships through ethical behavior.
- **OBJECTIVITY**
  We make impartial decisions, free from bias, conflicts of interest, or undue influence.
- **LEADERSHIP**
  We are committed to continuously improving our business, confidently making bold decisions that benefit our stakeholders.
- **PASSION**
  We take pride in our work and strive for exceptional results.
- **COLLABORATION**
  We work together as a team, openly sharing skills and knowledge to unlock the potential of our people.
- **DIVERSITY**
  We maximize creative energy through diverse perspectives and inclusive thinking.

- **QUALITY**
  We are diligent in our work and consistently deliver the highest quality in everything we do.
- **SAFETY & ENVIRONMENT**
  The safety of our workforce and the environment is critical to our mission. We embrace policies that protect both our employees and the environment.

QUALITY POLICY

- Provide customers with **high-quality products and services** that meet requirements and intended purposes.
- Enhance the skills of management and staff through **regular reviews and ongoing training**, preparing them to perform more effectively.
- Promote a culture of **continuous quality improvement**, embracing the philosophy of **"getting it right the first time."**
- Rigorously control the **supply, installation, and execution** of all products and services.
- Maintain and promote the **Quality Management System (QMS)** through internal management reviews, corrective actions, and preventive measures to ensure consistent implementation

HEALTH & SAFETY POLICY

RAWAFID ALSSALB is committed to ensuring a safe and healthy workplace. Our policy includes:

- Providing adequate resources, training, and supervision to maintain **health and safety**.
- Conducting **risk assessments** and maintaining safe systems of work.
- Ensuring the safe **use, handling, storage, and transport** of materials and equipment.
- Maintaining all **machinery and equipment** in safe condition.
- Providing **welfare facilities** and safe access to the workplace.
- Monitoring **safety performance** to maintain high standards.

MAIN SCOPE OF WORK:

- ❖ Fabrication, Delivery and installation of:
  - Steel Structure (Hot Rolled and Pre-Engineer)
  - Steel Tanks.
  - Metal Ladder
  - Steel Plat Form
  - Steel Frames.
  - Steel Bracket-
- ❖ Infrastructure works:
  - Soil digging.

- Compact the soil.
- Concrete foundation

PRODUCTS

- Steel bridges.
- Heavy duty building.
- Structures.
- Platforms.
- Turbine house.
- High tension towers.
- Equipment Support structure
- Passenger Terminals.
- Petrol pumps.
- Cargo terminals.
- Aircraft.
- Hangers

PROCEDURE

Construction and project management.

- Project management
- Initiating
- Planning
- Excusing + controlling monitoring
- Closing

WORK FLOW PROCEDURES

The purpose of the following section is to describe in general each activity .executed during a project

1. Engineering

- **Information Handling**
  All technical information from the client—such as drawings, project specifications, bills of quantity, scope of work, and other relevant details—is sent to the **Design Department**. The department reviews all documentation to establish design parameters. Any

clarifications or additional information requests are communicated to the client in writing. If information is unavailable, the Design Department documents all assumptions clearly and forwards them to the client.

❖ **Design Output**
The design output is provided in the following formats:

- **Computer-generated calculations** prepared using proprietary software.
- **Design sketches** containing all necessary details to generate **General Arrangement (GA) drawings**.

The GA drawing package typically includes:

- Anchor Bolt Layout
- Elevations
- Roof Framing Plan
- Connection Details

❖ **Design Review**
During the sketch and calculation phase, the **Design Supervisor** monitors all activities. Designers document all parameters used in calculations, which are verified against contract requirements. If required, the design calculations are formally submitted to the client for approval. All GA drawings are checked for accuracy by the drafting team and reviewed by the designer to ensure correct interpretation before submission to the client.

❖ **Design Validation**
All design packages are submitted to the client for review, comment, and approval **before fabrication begins**. Any comments or revisions are addressed, and resubmission is made until the design is approved.

❖ **Design Changes**
Any required modifications are documented by the originator and forwarded to relevant departments:

- **Internal change notices** are reviewed by the Design Supervisor.
- **External (client) notices** are reviewed by the Design Supervisor.

All change notices—whether drawings with comments or written instructions—are **filed in the project file** for future reference

2. SOFTWARE

RAWAFID ALSSALB Company has standardized the computer software used in order to ensure compatibility with clients and other third parties involved in the project

❖ **Design Software Details**

- CSI - SAP 2000
- CSI - ETABS
- CSI - COLUMNS
- CSI - SAFE
- ALL PILE
- PROKON
- STAAD
- AUODESK REBOT STRUCTURAL

❖ **Detailing & BIM**
- AUTOCAD
- AUTODESK ADVANCE STEEL
- AUTO DESK REVIT STRURA
- TELKA STRUCTURAL

❖ **Connection Design**
- RAM CONNECTION
- POWER CONNECT
- LIMCON
- RISA CONNECTION
- MASTER STEEL CONNECTION
- IDEA STATICA
- HILTI PROFILE ANCHOR
- FISCHER - FIX PERIENCE
- SPITI - EXPERT

3.RFI Process

If during **design review, engineering, or drafting**, additional information or clarification is needed, a formal **RFI (Request for Information)** is raised and sent to the client. The **issue and response** of the RFI are recorded for reference

4.PRE-PRODUCTION PLANNING

Upon contract award, the **Planning Department** reviews the project to establish:

- Overall **production requirements** per week and month.
- **Sequence of contract execution** to support the client's schedule.
- **Priority** for each sub-structure.
- **Engineering and drafting planning**.
- **Procurement planning**.

The **3D modeling and drafting systems** used by **RAWAFID ALSSALB** generate a full **Bill of Quantities** during the modeling phase. This data is sent to the **Stores and Purchasing Department**.

The **production program** is organized to define the **daily production requirements** for all fabrication activities.

- **MATERIAL PREPARATION**

The complete package of **preparation, assembly, welding, and treatment** is forwarded to the **Production** and **Quality Control Departments**. The **Engineering Department** provides **plates and beam shop drawings** in the required format to program **CNC equipment** for material preparation.

As materials are processed according to the production schedule, activities in the preparation area are **updated each shift manually**. This allows monitoring the **progress of the contract piece by piece**

5.Material Identification & Handling

- **IDENTIFICATION**
  All materials received from mills or merchant stock are inspected for:

- Completeness of order
- Compliance with Purchase Order requirements
- Transport damage
- Valid mill certificate

During preparation, the **heat number** of each piece is recorded against its **unique position/item number** on the cutting schedule, ensuring **traceability** to the mill certificate.

- **HANDLING, STORAGE & STACKING**
  Steel plates and sections are delivered **Just-in-Time (JIT)** or stored in designated areas. Materials are stacked to **prevent distortion, twisting, or bending**.
- **CONSUMABLE STORAGE**
  Welding rods, painting, and blasting materials are stored according to **manufacturer recommendations**.

6. FABRICATION DRAWINGS

Material preparation drawings are issued to the **Preparation Facility** in **electronic format** and are identified by **phase, substructure, and cutting schedule**. Assembly drawings are issued either electronically or on paper, also identified by **phase, substructure, and assembly schedule**.

7. BEAM PROCESSING

During cutting, each beam is marked with its **item/position number** for **identification and traceability** throughout the fabrication process. After marking and cutting, beams are moved directly to **drilling activities** as require

8.PLATE PROCESSING

Plates are cut, drilled, or punched according to **thickness, contract requirements, and end**

use. Each plate is marked with its **item/position number** for full traceability, and edges and holes are dressed as needed.

9.ASSEMBLY

Materials passing inspection are released to the assembly yard. Items are assembled according to the **fitting schedule**, avoiding bending or twisting. Fully assembled items are **dimensionally checked**, and deviations corrected immediately.

10.WELDING

All welding is performed by **qualified welders** following approved procedures (**AWS D1.1**). Welds are **monitored and visually inspected**, with defects repaired immediately. Only accepted items proceed to blasting and painting.

11.CURVING & STRAIGHTENING

Components are curved or straightened using **mechanical methods or controlled heat** without causing damage to the material.

12.NON-DESTRUCTIVE TESTING (NDT)

NDT is performed by independent specialists according to contract requirements and AWS D1 standards. Results are recorded on the **Welding Inspection Report**.

14. SURFACE PREPARATION & PAINTING

Steel surfaces are **blast-cleaned** to the required profile and primed within 4 hours. Painting is applied according to manufacturer requirements, ensuring proper **adhesion, thickness, and protection**. Painted items are handled carefully to prevent damage.

15. DELIVERY

Each item is **marked with Item No and barcode**. Steelwork is stacked and secured for safe transport. Loose plates and fittings are boxed or wired together. Bolts, nuts, and washers are packed as per specification. Delivery is scheduled to **facilitate erection and minimize handling** on site.

Steel Machines list

- **KALTENBACH – KBS 1015 ODC (Band Saw Cutting Machine)**
  Heavy-duty machine for cutting steel plates up to **110 mm**
  (Plasma up to **30 mm**, Gas cutting up to **110 mm**)
  Max length: **12,000 mm** | Max width: **1,000 mm** | Working height: **500 mm**
  Miter range: **+45° to -30°**
-
- **KALTENBACH 1015 (Beam Drilling Machine)**
  Used for continuous drilling of all beam types in **X & Y directions**

Max length: **12,000 mm** | Max width: **1,000 mm** | Max height: **500 mm**
Max drilling diameter: **40 mm**

❖ **ROCCA – HR4W 3016 (Plate Rolling Machine)**
Advanced and high-accuracy sheet metal rolling machine
Max width: **3,000 mm** | Max thickness: **16 mm**

❖ **BAYKAL (Plate Bending Machine)**
High-quality, repetitive bending with synchronized hydraulic system
Max working width: **3,100 mm** | Max thickness: **15 mm**

❖ **KALTENBACH – TRIATHLON 1508 (Shot Blasting Machine)**
Complete shot / grit blasting for steel beams, sections, and plates
Working space: **1150 × 3000 mm**
Turbines: **8** | Power per turbine: **11 Kw**

❖ **ESAB – SUPRAREX SXE-P4500 (Plasma Cutting Machine)**
Cutting of stainless steel, carbon steel, and metal plates
Processes: **Plasma, Oxy-fuel, Marking**
Max length: **12,000 mm** | Max width: **3,000 mm**
Plasma cutting up to **30 mm** | Gas cutting up to **110 mm**

❖ **BTH TECH PRO-D 220 (Radius Grinding Machine)**
Performance
Radius grinding module for precise, exact-fit grinding of pipes, flat materials, and profiles, suitable for production work, including extra-wide sections.
Technical Specifications

- Tube diameter range: **20–150 mm**
- Max. flat/profile dimensions: **120 × 50 mm**
- Belt dimensions: **150 × 2250 mm**