



WEST AFRICA STEEL SOLUTIONS

Prefabricated Steel Structure Buildings
& Industrial Building Systems

STRONG STRUCTURES. LASTING SOLUTIONS.



Typical industrial steel structure building

Product Catalog | Industrial Buildings • Warehouses • Factories • Custom Steel Structures

Serving government agencies, contractors, developers & industrial clients across West Africa

REQUEST A QUOTATION

Every inquiry reaches our official mailbox:

wa.steelsolutions@gmail.com

Custom-engineered solutions sized to your requirements

1. About West Africa Steel Solutions

West Africa Steel Solutions (WASS) specializes in the design, supply, and project support of prefabricated steel structure buildings and industrial building systems for the West African market. We deliver complete steel building packages suitable for factories, warehouses, logistics centers, agricultural facilities, workshops, and custom industrial projects.

Our solutions are engineered for durability, rapid construction, and cost-effectiveness under local climatic and operational conditions. All structural systems can be tailored to specific spans, heights, load requirements, and architectural preferences.



Completed steel structure facility



Industrial building under construction

Typical Applications

- Industrial factories and manufacturing plants
- Warehouses and distribution centers
- Logistics and cold-storage facilities
- Agricultural buildings and processing halls
- Workshops, hangars, and maintenance facilities
- Commercial and mixed-use steel structures

2. Featured System — Prefabricated Steel Structure Building

The following product information is based on a complete industrial steel building package. Dimensions, loads, and component specifications can be adapted to project requirements. The example configuration shown is representative of a mid-span industrial facility.

Example Configuration — Industrial Facility

Parameter	Specification
Building Dimensions	100 m (L) × 50 m (W) × 8 m (eave height)
Floor Area	5,000 m²
Roof Slope	0.08 (approx. 4.6°)
Roof Dead / Live Load	0.2 kN/m² / 0.3 kN/m²
Wind Load	0.4 kN/m²
Wall System	Partial brick wall (3 m) + color steel cladding above
Primary Steel	Q355B structural steel with multi-coat alkyd paint system (medium grey finish)

Note: Loads, spans, and materials are customizable. Final design is confirmed after receipt of site-specific data and engineering requirements.

3. System Components & Technical Specifications

A complete WASS steel building package typically includes the following major systems. Quantities shown are indicative for the example 5,000 m² industrial facility and will vary with project size and design.

3.1 Main Steel Frame System

Component	Specification / Description	Unit
Main Structure	Q355B steel, fabricated; alkyd painting system (2 primer + 2 finish coats), medium grey finish	ton
Roof Purlins	Q235 steel, Z180×70×20×2.0/2.2, hot-dip galvanized (100 g/m ²)	ton
Wall Purlins	Q235 steel, C200×70×20×2.0, hot-dip galvanized (100 g/m ²)	ton
High-Strength Bolts	Grade 10.9	set
Ordinary Bolts	Galvanized bolts	set
Anchor Bolts	M24 and M56, Q235B steel, processed	pcs



Primary steel frame and connection detail

3.2 Bracing System

Component	Specification / Description	Unit
Cross Bracing	Φ25 round steel bar, Q235, fabricated + alkyd paint (medium grey)	ton
Angle Brace	L63×4 angle steel, Q235, fabricated + alkyd paint (medium grey)	ton
Column Bracing	Φ25 round steel bar, Q235, fabricated + alkyd paint (medium grey)	ton
Tie Bars	Φ121×3.0 steel pipe, Q235, fabricated + alkyd paint (medium grey)	ton
Batter Brace / Sag Rods	Φ32×2.5 + Φ12 round steel, Q235, pre-galvanized	ton
Turnbuckles	M25	set

3.3 Wall & Roof Cladding System

Component	Specification / Description	Unit
Roof Panels	V840 profile, 0.5 mm color steel sheet, AZ60 coating, blue / white-grey options	m ²
Roof Insulation	50 mm fiberglass wool roll (12 kg/m ³) with aluminum foil facing + wire mesh	m ²
Roof Skylights	1.2 mm glass-fiber reinforced plastic (GRP) transparent panels	m ²
External Wall Panels	V900 profile, 0.5 mm color steel sheet, AZ60 coating, white-grey	m ²
Unpowered Ventilators	Diameter 600 mm, natural ventilation	set
Edge / Flashings	0.5 mm color steel plate, custom-formed	m
Accessories	Self-tapping screws, sealant, closures, etc.	m ²



Color steel cladding & roof system



Secondary members / purlins

3.4 Gutter & Downspout System

Component	Specification / Description	Unit
External Gutter	0.6 mm single-color steel plate gutter	m
Downspouts	Φ150 PVC pipe	m

3.5 Doors & Windows

Component	Specification / Description	Unit
Electric Rolling Door	W 5,000 × H 5,000 mm (example size); motorized	m ² / set
Personnel Door	Light steel single-leaf door, W 900 × H 2,100 mm	set
Sliding Window	Plastic-steel sliding window, 4 mm single glazing + insect screen, W 1,000 × H 1,000 mm	m ² / set

4. Why Choose a WASS Steel Structure Solution

- **Engineered for West Africa** — Designs account for local wind, thermal, and operational conditions. Partial masonry wall options and appropriate cladding systems available.
- **Complete Package Supply** — Primary structure, secondary members, cladding, insulation, openings, drainage, and packing for ocean freight included in a single coordinated package.
- **Rapid Construction** — Prefabricated components enable fast on-site erection, reducing overall project timelines compared with traditional construction.
- **Transparent Specifications** — Clear material grades (Q355B / Q235), coating systems, and component sizes allow engineers and quantity surveyors to verify compliance.
- **Flexible Configuration** — Clear-span or multi-bay layouts, variable eave heights, door/window placement, and insulation levels adapted to each client's process and budget.

5. Typical Project Process

1. **Inquiry** — Email your requirements to wa.steelsolutions@gmail.com. Include location, dimensions, function, and any special needs.
2. **Preliminary Proposal** — WASS issues a schematic layout, indicative material list, and commercial quotation.
3. **Engineering Confirmation** — Detailed design drawings and calculations prepared after order confirmation and advance payment.
4. **Fabrication & QC** — Components manufactured to approved drawings; surface treatment applied as specified.
5. **Packing & Shipment** — Goods packed (including steel pallets for main frames where required) and delivered under agreed Incoterms.
6. **Site Support** — Erection guidance documentation and, where contracted, technical assistance can be arranged.

6. Request a Quotation

To receive a project-specific quotation, please email the following information to our official address:

- Project location (country / city) and intended use of the building
- Preferred overall dimensions (length × width × eave height) or clear span requirements
- Design loads (if known) or reference to local standards
- Preferred cladding type, insulation level, and door/window schedule
- Any special requirements (crane beams, mezzanines, partial masonry walls, etc.)
- Target delivery timeline and preferred Incoterm

CONTACT WEST AFRICA STEEL SOLUTIONS

Send every inquiry to our official email:

wa.steelsolutions@gmail.com

Custom steel structure solutions for West Africa
Strong Structures. Lasting Solutions.

Disclaimer: This catalog presents indicative product information derived from a typical industrial steel building package. Final specifications, quantities, and commercial terms are confirmed only in a formal quotation issued by West Africa Steel Solutions. All dimensions, loads, and material grades are subject to engineering verification for each specific project. Supplier identities and original commercial terms from upstream manufacturers are confidential and are not disclosed in customer-facing materials. A company website will be added in a future edition of this catalog once available.