

## STEEL STRUCTURAL PRODUCTS

### DEFORMED BARS



#### Available Sizes & Weights

- Diameters: Y8 (D8), Y10 (D10), Y12 (D12), Y16 (D16), Y20 (D20), Y25 (D25), Y32 (D32).
- Standard lengths: 6m, 9m, 12m (or cut-to-size).
- Approximate weights: Y8 ≈ 0.395 kg/m, Y10 ≈ 0.617 kg/m, Y12 ≈ 0.89 kg/m, Y16 ≈ 1.58 kg/m, Y20 ≈ 2.47 kg/m.

#### Key Features & Benefits:

- Deformed (ribbed) surface for grip and pull-out resistance in concrete.
- High tensile strength and ductility
- Corrosion-resistant options
- Common grades: HRB400/500 or Grade 460/500.

#### Applications:

- Residential and commercial foundations, slabs, columns, and beams.
- Bridges, retaining walls, and infrastructure projects.
- Ideal for Kenya's variable soils and occasional seismic activity.

### STEEL TUBES



#### Common Sizes in Kenya:

SHS: 20×20mm to 200×200mm (wall thickness 1.5–6mm+).

RHS: 40×20mm to larger (various thicknesses).

CHS: 15mm–300mm diameter.

Lengths: Standard 6m or cut-to-size.

#### Key Features & Benefits:

- Types: Square Hollow Sections (SHS), Rectangular Hollow Sections (RHS), Circular Hollow Sections (CHS / Round pipes).
- Materials: Mild steel or galvanized/Alu-Zinc coated for rust protection (ideal for Kenya's humidity and coastal zones).
- High torsional/bending strength – SHS/RHS for flat connections and directional loads; CHS for uniform/torsional strength.
- Easy to weld, cut, and fabricate; clean, aesthetic finishes for visible applications.

#### Applications:

- Roof trusses, purlins, and structural frames.
- Columns, pillars, fencing, gates, railings, and guardrails.
- Carports, scaffolding, furniture frames, industrial racking, and signage.

### LIGHT GAUGE STEEL TRUSSES



#### Specifications (Typical):

- Gauge: 0.75–1.2mm (high-tensile G550 grade common).
- Custom designs for various roof pitches, spans, and loads.
- Compatible with mabati, stone-coated tiles, or other roofing.

#### Key Features & Benefits:

- Lightweight yet incredibly strong – high strength-to-weight ratio allows spans up to 30–40 feet with minimal material.
- Termite-proof, fire-resistant, no warping/splitting/shrinking, moisture/mold-resistant.
- Precision-engineered and prefabricated – accurate, minimal on-site cutting, reduced waste, and faster installation.
- Corrosion-resistant (galvanized or Alu-Zinc coated) for Kenya's humid, rainy, and coastal climates.
- Eco-friendly and recyclable; lower embodied energy than timber alternatives.
- Lifespan: 25+ years with minimal maintenance.

#### Applications:

- Residential homes (open-plan designs), halls, schools, churches, and godowns.
- Commercial and industrial buildings requiring large clear spans.
- Ideal replacement for timber in termite-prone, fire-risk, or high-humidity areas.



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