WEB HOUSEING

Precast Concrete Columns
Precision-Engineered Support & Accelerated Frame Construction

Key Features

High-Load Capacity: Engineered to provide superior vertical support for multi-storey residential, commercial, and industrial structures.
Integrated Connections: Features built-in base plate assemblies or corbels for seamless integration with beams and foundations.
High-Performance Concrete: Cast using $C40/50$ to $C60/75$ grade concrete for maximum compressive strength.
Reinforcement Precision: High-tensile steel rebar cages are precisely positioned in factory molds for optimal structural safety.
Superior Surface Finish: Smooth, off-form finish eliminates the need for plastering,

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Technical Specifications

Parameter	Details
Profile Shapes	Square, Rectangular, or Circular
Standard Sizes	300mm x 300mm up to 800mm x 800mm
Height Range	Up to 12.0m (Single lift or spliced for multi-storey)
Concrete Grade	$C40/50$ to $C60/75$ (High-strength
Reinforcement	High-tensile steel rebar (Grade 500)
Fire Rating	1 to 4 hours (depending on concrete cover)
Connection Type	Bolted base, Grout sleeves, or Corbel supports

Benefits

Rapid Installation: Eliminates the need for on-site shuttering and curing time; columns can be loaded immediately after grouting.

Consistency: Factory-controlled environment ensures consistent strength and dimensional accuracy across all units.

Reduced Labor: Significantly lowers the number of on-site workers required for framing and reinforcement.

Weather Resistance: Unaffected by on-site weather conditions during the curing phase, preventing structural weaknesses.

Factory Address: Kilifi, Kenya
Tel: +254 72 495 1377

Applications

Multi-Storey Frames: Primary structural support for apartments and office buildings.
Warehouses & Factories: Fast-track construction for large-scale industrial portals.
Parking Structures: Durable, fire-resistant support systems for heavy vehicle loads.
Infrastructure Projects: Support piers for bridges and elevated walkways.

Why Choose WEB Housing Pre-stressed Beams?

Custom Engineering: We design reinforcement and connection details based on your structural engineer's load requirements.
Quality Assurance: Every column is batch-tested for compressive strength before leaving our Kilifi factory.
Precision Fit: Our modular system ensures that beams and columns align perfectly, reducing on-site adjustments.on schedule

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