WEB HOUSEING

Pre-stressed Concrete Beams
400mm x 600mm | High-Tensile Strength & Structural Integrity for Modern Infrastructure

Key Features

Optimal Dimensions: 610mm (width) x 2440mm (length) – Ideal for rapid, modular installations.
Adjustable Thickness: Wall panels from 75mm to 250mm, tailored to insulation and structural needs.
Premium Facing: Dual-sided Fiber Cement Boards (5mm to 18mm thickness options) for unmatched strength and weather resistance.
EPS Core: Expanded Polystyrene ensures lightweight construction, thermal efficiency, and moisture resistance.
Fire-Resistant: Meets stringent safety

Email: info@web-housing.com
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Technical Specifications

Parameter	Details
Common Profiles	I-Beam, T-Beam, L-Beam, and Rectangular sections
Total Wall Thickness	75mm – 250mm (customizable)
Span Length	Up to 18 meters (customizable based on project requirements)
Concrete Grade	$C40/50$ to $C60/75$ (High-strength
Steel Tendons	High-tensile low-relaxation steel strands
Fire Rating	1 to 4 hours (depending on concrete cover)
Load Capacity	Engineered to specific Eurocode or British Standards
Finish	Smooth off-form finish, ready for painting or cladding

Benefits

Structural Efficiency: Allows for larger open floor plans by reducing the number of necessary columns
Cost-Effective: Reduced material usage and faster on-site assembly lower overall project costs.
Durability: Highly resistant to corrosion, moisture, and chemical attacks for long-term service life.
Speed of Construction: Prefabricated design allows for immediate loading after installation, cutting schedules by up to 50%
Eco-Friendly: Optimized material use reduces the carbon footprint compared to traditional cast-in-situ beams.
Quick Installation: Prefabricated design cuts construction time by 50%.

Factory Address: Kilifi, Kenya
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Applications

Multi-Storey Buildings: Primary framing for commercial and residential complexes.
Industrial Facilities: Heavy-duty support for warehouses and factories.
Bridge Engineering: Girders for short to medium-span road and pedestrian bridges.
Parking Structures: Long-span beams for unobstructed vehicle movement.

Why Choose WEB Housing Pre-stressed Beams?

Certified Quality: ISO-compliant manufacturing processes ensure every beam meets safety codes.
Custom Engineering: Our team tailors the prestressing force and beam geometry to your specific structural load.
Expert Support: End-to-end guidance from structural design to on-site hoisting.

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