

PRE-STRESSED INVERTED T-BEAM

THE STRUCTURAL BACKBONE OF BETTER BUILDS

Precision-Cast Beams for Modern Structural Demands

The STELCOR Pre-Stressed Inverted T-Beam system is an advanced flooring solution designed for faster builds, reduced costs, and long-term performance.

Manufactured using 210 KSI high-tensile prestressed strands - 3.5x stronger than conventional rebar - these beams deliver exceptional load capacity and durability for projects of any scale. EPS bovedilla provides insulation within the complete floor assembly, improving thermal performance.

Suitable for residential, commercial, industrial, and agricultural applications, the system offers unmatched adaptability, from small structures to large-span developments.



HOW IT WORKS

BUILT STRONG. BUILT FAST.

Each T-Beam features a T-shaped cross-section designed to maximize structural efficiency:

- Upper Flange – Acts as a compression member, resisting compressive forces.
- Vertical Web – Transfers shear stress and adds rigidity.
- Prestressed Strands – Counteract tensile stresses from bending, ensuring long-term stability.

ADVANTAGES

- Prestressed Concrete with High-Tensile Wires – Reduced cracking under heavy loads.
- Consistent Cross-Section Design – Ensures uniform strength and performance.
- High Load-Bearing Capacity – Handles heavy traffic, machinery, and long spans.
- Adaptable for Long-Span Applications – Reduced need for intermediate supports.
- Environmental Resistance – Withstands moisture, temperature changes, and harsh weather.

APPLICATIONS

Residential housing developments

Commercial buildings and offices

Agricultural sheds & warehouses

Cold storage & cool rooms

Portable housing units

Architectural features and custom structures



SIZE AND SPAN CAPACITY

CHOOSE THE RIGHT PROFILE FOR YOUR PROJECT REQUIREMENTS

AVAILABLE SIZES & SPAN CAPACITIES

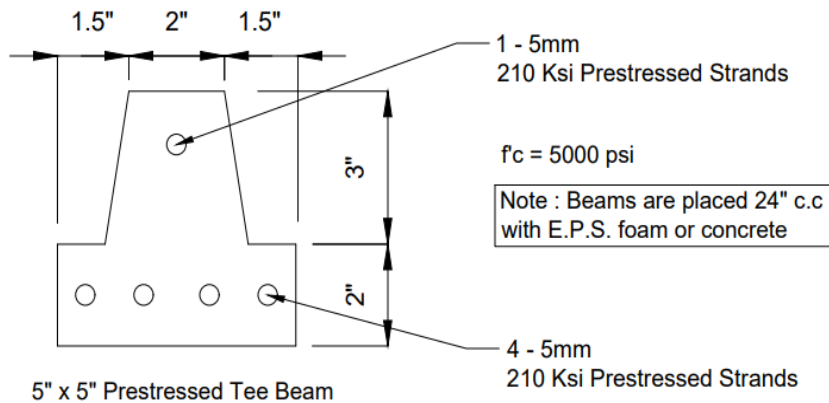
Choose the right profile for your project requirements:

- **5" Tee Beam**

Span up to 16.5 ft – residential loading

Span up to 15.5 ft – office building loading

Compact profile ideal for lighter loads and shorter spans

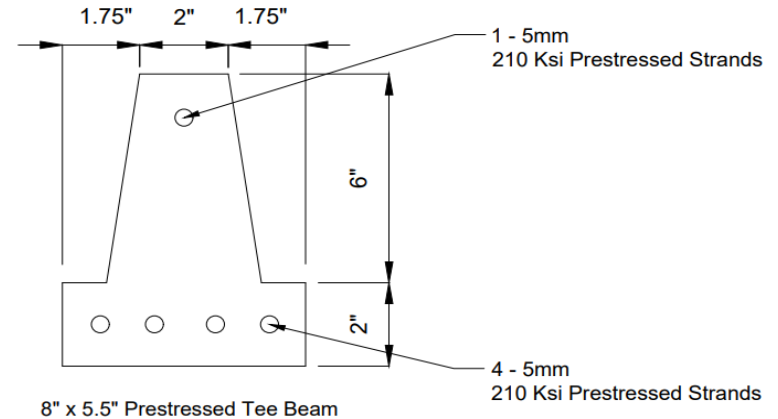


- **8" Tee Beam**

Span up to 22 ft – residential loading

Span up to 20 ft – office building loading

Increased depth for heavier loads and extended spans



- Both sizes can be manufactured in custom lengths to match your floor plan and loading requirements.

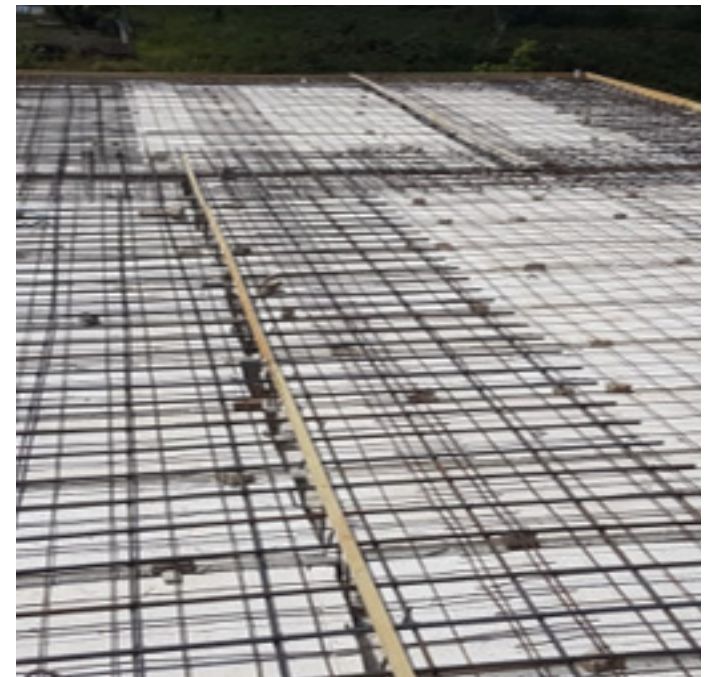
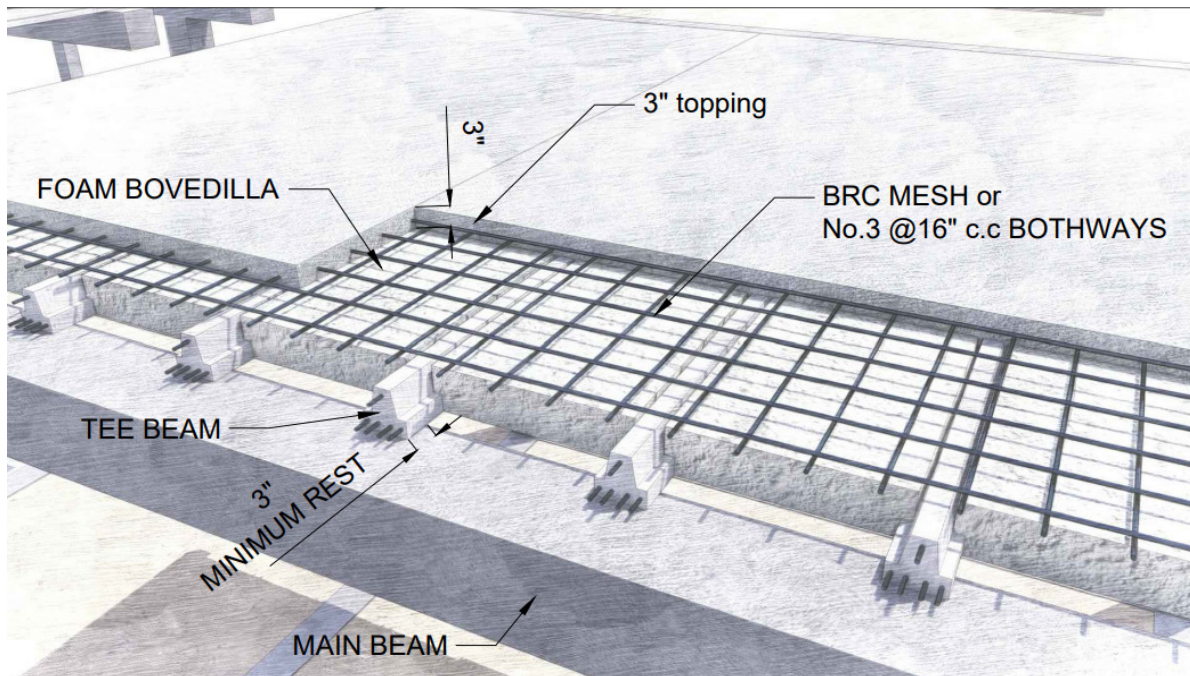
SYSTEM ADVANTAGES

BUILD SMARTER. BUILD STRONGER.

KEY FEATURES

Engineered for maximum load capacity, minimal supports, and rapid installation in any project scale.

- 25–30% Cost Savings – Reduced concrete, steel, and formwork needs.
- Faster Construction – Significantly shorter timelines compared to conventional flooring.
- Minimal Temporary Supports – Less propping required during installation.
- Superior Insulation - EPS bovedilla improves thermal performance within the complete floor assembly.
- Lightweight Handling – Easier transport and site layout.
- High Wind Load Capacities – Engineered for demanding environments.



BUILD BETTER TODAY WITH STELCOR SOLUTIONS

CONTACT US

Whether you're spanning a small structure or a large-scale development, STELCOR's Pre-Stressed Inverted T-Beam system delivers the strength, speed, and efficiency your project demands.

Ready to build stronger and faster? Contact us today for engineering specifications, span tables, load data, and a project-specific quote.

Let's build stronger, faster, and more efficiently - together.

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