

System Overview

EcoSteel Pre-Engineered Steel Buildings provide the world's most advanced Eco friendly construction systems. In our ever extensive product line, we offer solutions for Commercial, Residential, and Multi-Family or Mixed Use projects. We use a combination of commercial-grade steel framing wrapped in steel insulated panels. This unique approach provides optimal strength, versatility, and energy efficiency while maintaining the ability to design freely without limits.



EcoSteel uses parametric engineering, design and detailing programs that are embedded In AutoCAD. This format allows easy collaboration and communication between all parties through design and construction phase. Our pre-engineered steel modeling technology accelerates the creation of 3D elevations and floor plan views as well as the construction, fabrication, and CNC files for automated production. This approach reduces drafting time and fabrication errors caused by the typical practice of editing and correcting multiple drawing files.



Why Build with Steel?

EcoSteel is superior to traditional construction methods in every practical way.

Superior Strength

Steel has the highest strength-to-weight ratio of any building material. It's flexible, straight, non-porous, durable, dimensionally stable and lightweight. This ensures decades of maintenance-free, energy efficient comfort and safety.

Low-Maintenance

Unlike conventional building materials, steel doesn't rot, warp, decompose, split or fall victim to natural pests. And EcoSteel is specially treated to avoid rust.

Mold-Resistant

EcoSteel practically eliminates the possibility of mold growth and the related health risks found in some buildings built with conventional materials.

Fire-Resistant

EcoSteel significantly reduces the fire hazards posed by the many combustible materials common in most homes and offices today. Insurance rates may be reduced by using fire resistant structural materials such as steel.

Energy-Efficient

Unlike wood, steel framing doesn't crack due to shrinking or warping. And EcoSteel's frames and steel-insulated panels meet or exceed governmental energy-efficiency standards. Our tongue-and-groove design creates a continuous, insulated cocoon, preventing the air leaks that result in costly energy loss. The R-24 "whole wall performance" of a standard EcoSteel 3" IP is more than 2.5 times higher than a timber framed 2x4 batt insulated wall.

Extreme Weather Conditions

With drastic temperature swings and high winds or earthquakes, EcoSteel® stands strong. We've even designed a line of homes engineered to withstand over a 150 MPH wind load, exceeding one of the toughest building codes in the US Miami/Dade, Florida.

Included with Our Pricing

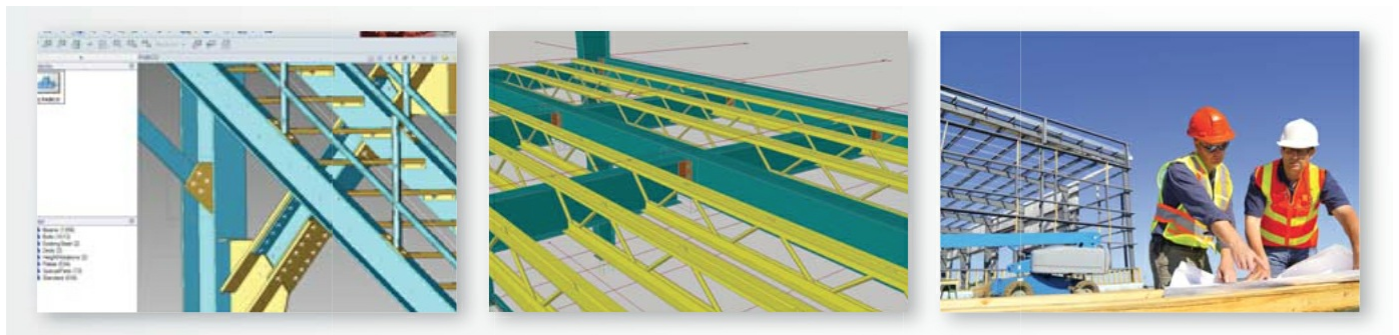
3D Design Model, Plans and Documents by Ecosteel

We audit the provided schematic design to assure the compatibility with the Ecosteel construction system while maintaining the visual aesthetics of the project. Our team works with you and your architect during design to analyze the structure for potential conflicts within the interior or exterior space.

We'll model your entire building to translate the schematic design to a steel construction system with a panelized exterior skin. Material transitions, panel alignment, architectural tectonic system analysis and basic waterproofing solutions are provided to confirm the design integrity is maintained.

Included Items:

1. Schematic Design / Axonometric 3D Model
2. Detailed component diagrams with Typical Sections & Details
3. 3D Model for structural framing members & panel
4. Stamped Structural Engineering
5. Elevations, Floor Plans, Typical Detail Sheets, Panel Layout, Framing Plan
6. Insulated Panel layout & Trim Detail Plans
7. Cross Sections, Wall Sections, Typical Structure & Panel Details

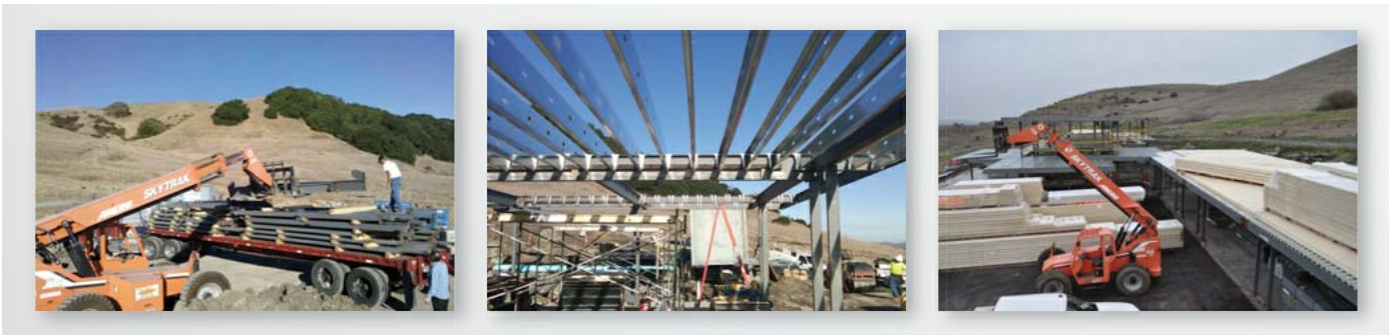


Construction Materials specified and designed by EcoSteel

EcoSteel is to provide designs and specifications for a finished shell(s) according to plans developed with client including;

- All steel structures with bolted connections
- Steel insulated panel roofs (see notes below for finishes and insulating values)
- Steel insulated panel walls with (see notes below for finishes and insulating values)
- Steel interior floor joists & framing for floors and decks above foundations when required
- Typical bolts, screws, fasteners, sealant, and miscellaneous materials
- Freight to building site or US Port

** Structural Assumptions; Hot Rolled I-Beam Structure/ C-Channel Secondary Frames



Phased Permit Deliverables

Phase 1 - Design

- Cover - Sheets / Rendering / 3D Framing
- SA 101 - Floor Plans
- SA 103 - Roof Plan
- SA 104 - Axonometrics
- SA 200 - North Elevation w/ Panel Layouts
- SA 201 - South Elevation w/ Panel Layouts
- SA 202 - East Elevation w/ Panel Layouts
- SA 203 - West Elevations w/ Panel Layouts

Phase 2 - Bid Set

- SA 204 - N Framing Elevations_Window + Door Framing
- SA 205 - S Framing Elevations_Window + Door Framing
- SA 206 - E Framing Elevations_Window + Door Framing
- SA 207 - W Framing Elevations_Window + Door Framing
- S 100s - Anchor Bolt Plan
- S 200s - Bolt Details & Reactions
- S 300s - Rigid Frame Elevations

Phase 3 - Structural Engineering

- S 100 - Anchor Bolt Plan
- S 101 - A.B. Details
- S 102 - Roof Plan
- S 200 - Elevations
- S 201 - Elevations
- S 300 - Rigid Frame Elevation
- S 301 - Rigid Frame Elevation
- S 400s - Final Details
- S 401 - Final Details

Not Included

After the shell is completed, you select interiors to fit your vision, taste, and lifestyle. The following plans, documents, materials and services are some of the items you will need to budget for. These items are not designed or specified by EcoSteel. However, we will consult with your engineers and sub-contractors to educate them on our building system designs, provide them with any necessary data or specifications specific to our designs, and provide general assistance in helping them to complete their work.

Plans and Documents by Others

- Soils tests
- Water and septic engineering and plans, including building and health permits, and impact fees
- Site plans, including drainage plans, landscape plans, land surveys and legal descriptions, and building placement
- Zoning plans and compliance, including easements, utilities and setbacks
- Stamped electrical and mechanical plans and specifications (if required by local code), and energy calculations
- Railings for decks and stairs
- Finished flooring and decking materials
- Kitchen and bathroom cabinet and fixture elevations, plans and specifications

Construction Materials, labor, design and services by Others

- Site grading, drainage and landscaping
- Foundation forming, construction and anchor bolt placement
- Concrete and masonry work, interior and exterior
- Steel and insulated panel erection labor
- Plywood floor decking (if applicable)
- Interior framing and wall + ceiling drywall, finish and painting
- Exterior/Interior doors and windows
- Gutters + Downspouts
- Floor coverings
- Kitchen and bathroom appliances, fixtures, cabinets and counters
- All Plumbing, Mechanical heating, venting and air conditioning (HVAC) systems
- Electrical wiring and fixtures

Construction Administration and Job Visits

Services for Construction Administration are not part of the scope of this job. Site visits as requested for project review, submittals, and/or to governing agencies shall be billed on an hourly rate plus reimbursable expenses.

Out of Scope Services

The above-described services are based on routine applications, which do not require special procedures or the preparation of additional information. All plans and other documents will be prepared only once. Items of service that are not specified in the Scope shall not be assumed to be included.