
EC STEEL

More Design Flexibility || Faster Construction Time



AN INTELLIGENT

ALTERNATIVE

Reduce Costs / Minimize Risks:

We combine proven steel construction methods with a nationwide network of manufacturing locations and commercial steel contractors. EcoSteel uses a library of certified components that assemble with standard tools.

EcoSteel's design approach begins with 3D model design, structural concept modeling, and preliminary shop details. We then help our clients coordinate the delivery of a pre-fabricated kit of parts that assembles on site.

Our clients benefit by using prefab technology and readily available materials while controlling the costs and schedules for the majority of construction materials.

EcoSteel helps reduce costly mistakes by utilizing BIM/ Parametric Engineering Technology. We also eliminate subcontractors which means less people to manage and fewer mistakes. Our Panelized / Prefab construction utilizes an easy to assemble building system.

Design flexibility is paramount in today's custom driven market. Our steel frame can handle any shape, and our factory finished panels come in many different colors and styles.

BUILT TO LAST GENERATIONS



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

- Superior Strength
- Fire & Termite Resistant
- Mold Resistant
- Extreme Weather
- Clean Indoor Air
- Energy Efficient
- Solar Ready
- Leed Certified
- Low Maintenance
- Reduced Waste





Low-Maintenance

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

Square Corners Stay Squared

Steel is an unlimited resource that is produced in strict accordance with national standards with no regional variations and inconsistencies. Windows and doors open and close as they should.

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. Specifically, EcoSteel ensures decades of maintenance-free, energy efficient comfort and safety.

Energy-Efficient

Unlike wood, steel framing doesn't crack due to shrinking or warping. Our frames and steel insulated panels meet or exceed governmental energy-efficiency standards. The 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" insulated panel 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. They have 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.

Reduced Waste

EcoSteel systems are constructed with 76% recycled steel. The overall recycling rate in the steel industry is 75% making it the most recycled material in North America. There is typically only 2% waste using steel versus 20% with wood construction.

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.

Mold-Resistant

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

WHO WE ARE

- Steel Building System
- Unlimited Design Flexibility
- Value Engineering
- Prefabricated Core & Shell
- Fixed Cost Materials Package
- Construction Consultation



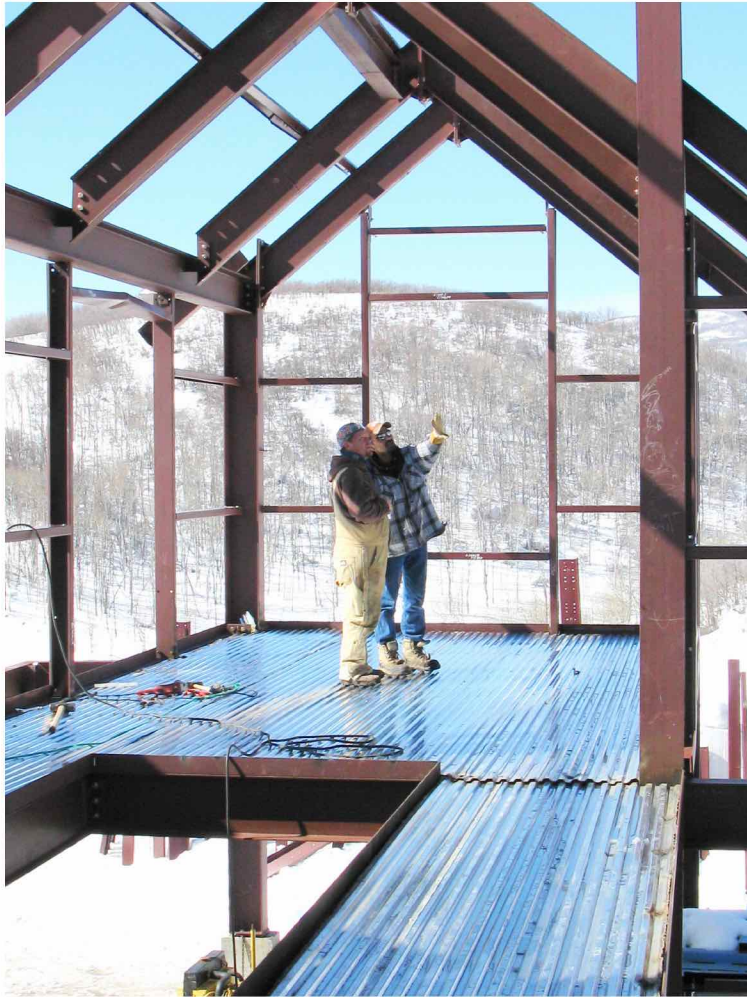
RETAIL RESIDENTIAL COMMERCIAL



PROCESS:

Task Name	Q1			Q2			Q3			Q4		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
YOUR PROJECT SCHEDULE												
Schematic Design/Bid Set	Schematic Design/Bid Set											
Phase 1: Concept Design	Phase 1: Concept Design											
Concept Design Approval	Concept Design Approval											
Phase 2: Final Design	Phase 2: Final Design											
Final Design Approval	Final Design Approval											
Phase 3: Site Plan & Section	Phase 3: Site Plan & Section											
Site Plan & Section Approval	Site Plan & Section Approval											
Engineering	Engineering											
Phase 1: Engineering	Phase 1: Engineering											
Prelim Structural Frame Review	Prelim Structural Frame Review											
Phase 2: Site Plan	Phase 2: Site Plan											
Matching Site Plan Approval	Matching Site Plan Approval											
Phase 3: Structural	Phase 3: Structural											
Final Engineering Approval	Final Engineering Approval											
Permit Submission	Permit Submission											
Estimated 60 - 90 Days for Approval	Estimated 60 - 90 Days for Approval											
Material Prefabrication	Material Prefabrication											
Material Order Approval	Material Order Approval											
Phase 1: Light Gauge Steel Order	Phase 1: Light Gauge Steel Order											
Phase 2: Custom Fabrications	Phase 2: Custom Fabrications											
Fabricated Material Order	Fabricated Material Order											
Phase 3: Material Delivery	Phase 3: Material Delivery											
Material Count Checklist	Material Count Checklist											
Construction	Construction											
Phase 1: Site Work	Phase 1: Site Work											
Phase 2: Foundation	Phase 2: Foundation											
Phase 3: Steel Erection	Phase 3: Steel Erection											
Phase 4: Electrical/Plumbing/HVAC	Phase 4: Electrical/Plumbing/HVAC											
Phase 5: Interior Finishes	Phase 5: Interior Finishes											

1. Client provides schematic design drawings.
2. EcoSteel will price prefab building materials cost based on schematic design assumptions.
3. Client drives design while we drive budget.
4. EcoSteel integrates our systems to meet budget expectations and design requirements.
5. EcoSteel offers the Client workable options for details and transitions within tectonic systems.
6. Client approves design options.
7. EcoSteel integrates all details in bid set design package for Client review and approval.
8. Client approves.
9. Final engineered design released for bidding and construction.
10. Client integrates bid sheets.
11. Materials are put into production.
12. Materials are delivered to the job site.
13. EcoSteel will assist during construction.
14. Client moves in. EcoSteel sends documentary photo-book as housewarming gift.



ECOSTEEL BUILDING SYSTEM

All EcoSteel Building systems start with a steel frame to provide maximum strength and design flexibility. All parts are pre-cut, pre-drilled and numbered for rapid onsite assembly. Our clear-span curtain wall structure eliminates the need for load-bearing interior walls, freeing up space and enabling creative, cutting-edge designs.

Our systems utilize a combination of steel framing wrapped in steel insulated panels. This unique combination provides optimal strength, versatility, and energy efficiency while maintaining the ability to design freely without traditional limitations.

EcoSteel uses an exclusive combination of Parametric engineering, design, and detailing programs that are embedded in AutoCAD. This format allows for ease of collaboration and communication between all aspects of the design and construction phase.

Pre-Punched Joists and Studs for Mechanical & Electrical.



INSULATED WALLS AND ROOF

Our wall and roof systems are filled with non CFC polyurethane modified isocyanurate foam. The panels are manufactured in a uniform pressure laminating process that bonds metal facings to pre-cured insulating rigid foam cores. The process uses structural urethane adhesives applied under heat and pressure to form an integral bond between steel and foam.

The EcoSteel insulated panels are ideal for projects with a focus on energy efficiency and speed of construction. Our exterior wall and roof panels have a 50 year proven history on industrial and cold storage applications. The Insulated panels are provided with hidden fastener offset joinery for easy installation from the building exterior. Vertical and Horizontal wall panel options are available with a closed (SI) or reveal (RI) exterior joint.

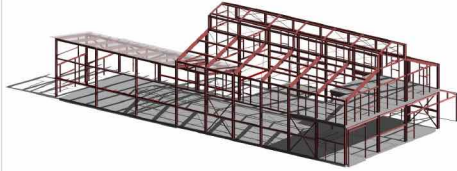
End joints are finished with a matching steel trim or extruded aluminum piece set with sealing tapes and plugged at reveals, or panels can be factory folded for a "trimless" installation. Trimless end joints are commonly treated with a field applied gasket or foam backer rod and sealant.



CUSTOM DETAILS & UNLIMITED DESIGN FLEXIBILITY

- Value engineering as part of design process.
- Fully engineered system.
- Architectural detail + design oriented team.
- Innovative systems proven in commercial market.
- Bid/Entitlement plans with 3D Isometric views.
- Building system design, prefab core & shell.



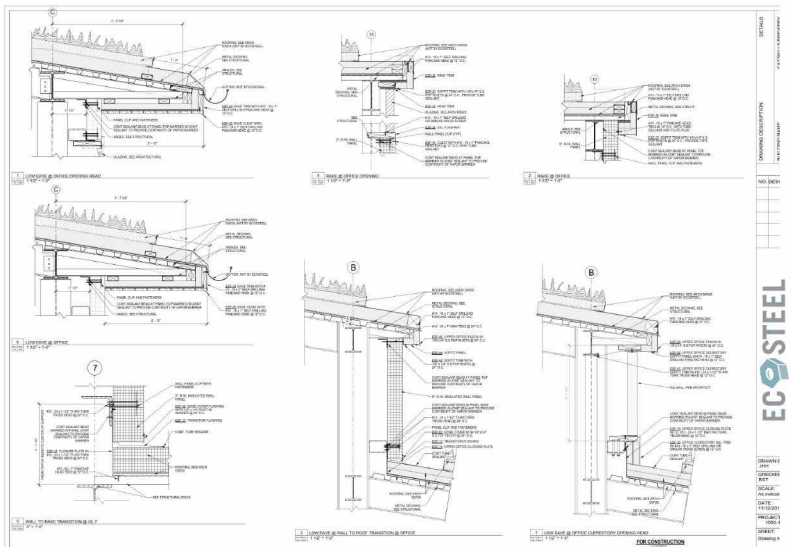


SHEET LIST	
Sheet No.	Sheet Name
001	GENERAL NOTES
002	WALL PANEL LAYOUT
003	WALL PANEL CONNECTIONS
004	ROOF PANEL LAYOUT
005	ROOF PANEL CONNECTIONS
006	ROOF TRUSS LAYOUT
007	ROOF TRUSS CONNECTIONS
008	ROOF PURLIN LAYOUT
009	ROOF PURLIN CONNECTIONS
010	ROOF BRACE LAYOUT
011	ROOF BRACE CONNECTIONS
012	ROOF GIRDERS
013	ROOF GIRDERS CONNECTIONS
014	ROOF GIRDERS BRACING
015	ROOF GIRDERS BRACING CONNECTIONS
016	ROOF GIRDERS BRACING BRACING
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FOR CONSTRUCTION

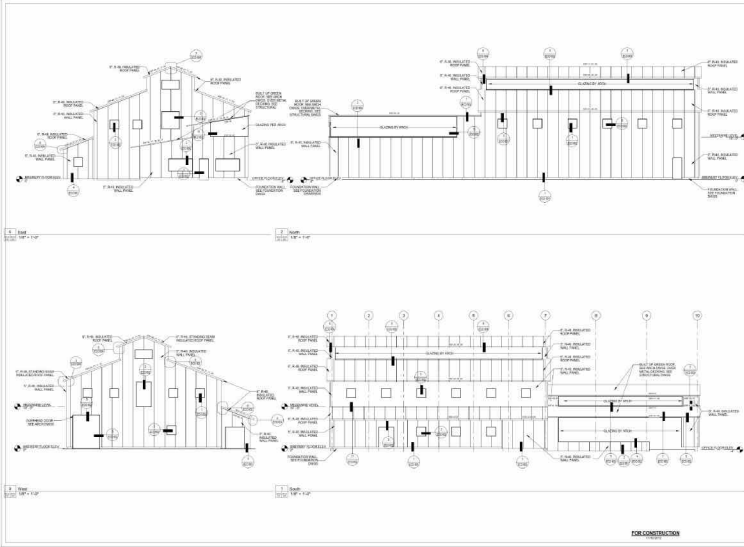
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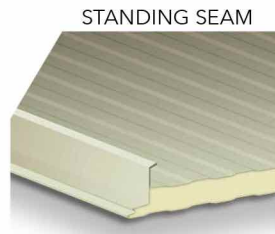
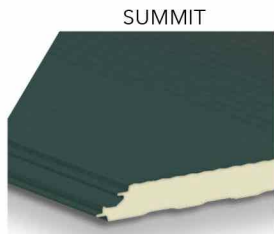
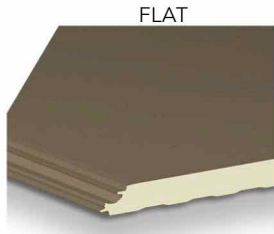
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BUILDING INTELLIGENCE:
 Parametric Modeling
 3D Visualization
 Automated Fabrication
 Pre-finished Components

INSULATED WALL AND ROOF PANEL OPTIONS



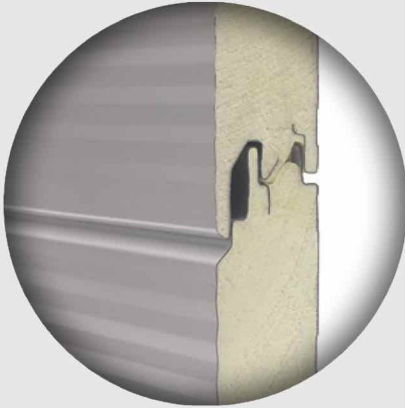
EcoSteel's insulated wall panels provide an attractive and elegant look to your project while yielding excellent R-values for energy efficient building envelopes. Our panels have a wide variety of colors and textures to give your building a custom finish. Whether you are building a commercial structure or a custom home, we have the finishes to deliver the looks you want.



FIRE RESISTANT



TONGUE & GROOVE

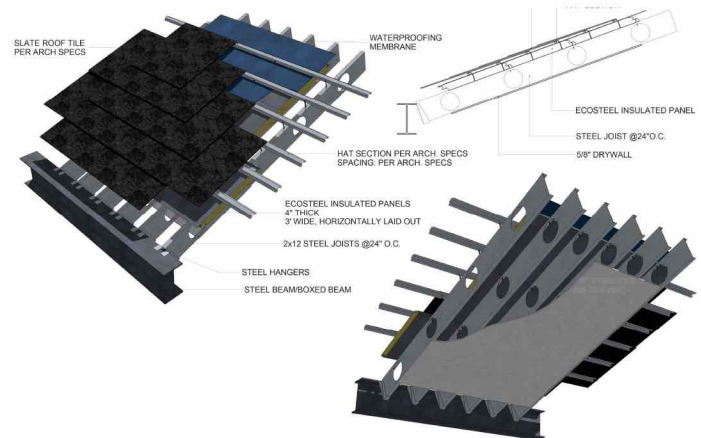
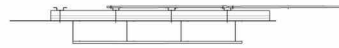
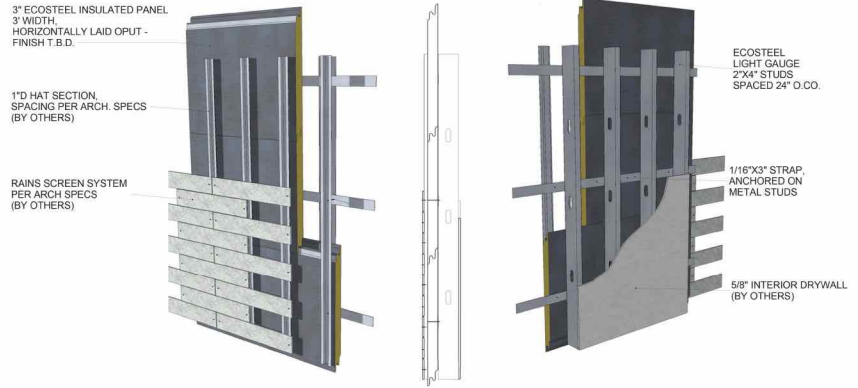


COLOR OPTIONS

SILVER METALLIC★ SR.52 SRI.59	COPPER METALLIC★ SR.46 SRI.51	DARK GRAY METALLIC SR.35 SRI.36	POLAR WHITE SR.70 SRI.85	ALMOND SR.63 SRI.75	BROWNSTONE★ SR.47 SRI.54
WEATHERED ZINC SR.38 SRI.41	CHAMPAGNE SR.40 SRI.43	WINTER WHITE SR.59 SRI.69	ASH GRAY★ SR.47 SRI.55	REGAL GRAY SR.35 SRI.64	SANDSTONE SR.60 SRI.71
IGLOO WHITE* SR.64 SRI.77	LIGHT STONE★ SR.50 SRI.58	SLATE GRAY★ SR.37 SRI.41	BRITE RED★ SR.49 SRI.56	HARBOR BLUE★ SR.28 SRI.27	
SADDLE TAN★ SR.48 SRI.55	HAWAIIAN BLUE★ SR.32 SRI.33	FERN GREEN★ SR.27 SRI.27	PACIFIC BLUE★ SR.29 SRI.30	COLONIAL RED★ SR.34 SRI.36	
DESERT SAND★ SR.42 SRI.48	CRIMSON RED★ SR.33 SRI.36	SNOW WHITE★ SR.65 SRI.78	NATURAL PATINA★ SR.41 SRI.46	HUNTER GREEN★ SR.35 SRI.37	
POLAR WHITE** SR.38 SRI.69	RUSTIC RED★ SR.36 SRI.39	BURNISHED SLATE★ SR.28 SRI.29	TUNDRA★ SR.46 SRI.52	SPRUCE★ SR.36 SRI.39	
CHARCOAL GRAY★ SR.27 SRI.27	KOKO BROWN★ SR.28 SRI.29	SMOKE GRAY SR.30 SRI.57	TERRA COTTA SR.38 SRI.41	CLASSIC GREEN★ SR.27 SRI.27	
			AEGEAN BLUE SR.29 SRI.29	MEDIUM BRONZE★ SR.33 SRI.34	

CLADDING & FINISH

- Architects/Clients can control project details with unlimited design options.
- EcoSteel is your one source for design, details, material, and engineering.
- We use a budget driven hybrid construction system.
- Exterior wall and roof options will be attached to our to hat sections.
- Cladding will attach as rain screen system.



3 Wall to ceiling Overhang
SCALE: rts

2 Rake
SCALE: rts

1 Overhang
SCALE: rts

CLADDING



1. Composite Wood
2. Fiber Cement
3. Perforated

LA MEDICAL OFFICE

Burbank, CA

Noncombustible - Earthquake Resistant - Healthy Clean Air - Title 24





Custom prefab Medical Office Building in Los Angeles, CA. A state of the art Surgery Center occupies a premier downtown location in Burbank. This All Steel bolted frame construction ensures the patients inside are protected by a superior structure designed for earthquakes along with providing the **Most Resistance To Fires**. Hospitals and Medical Office Buildings run a high risk of fast spreading fire damage with high pressure oxygen lines running through the walls.

In addition to safety features, an EcoSteel Prefab building eliminates the lumber and asphalt materials which are used in standard construction methods. The off gassing of glues for engineered lumber products and asphalt shingles creates poor indoor air quality. **Steel does not harbor mold + bacteria** and termites and therefore does not need regular chemical treatments of water proofing, or insecticides which cause disease among humans.

The project was **Completed In Under 12 Months** and provides a safe healthy environment for employees and patients who occupy the building daily. The unique architecture and precision based panel design conveys the message of a superior brand over that of the traditional building options. 16 Additional LEED Points are available when designing with the EcoSteel Prefab System.



DESCRETION BREWERY & RETAIL



Exposed Interior Finish- Pre-finished Roof & Walls - 2HR Fire Rated Panels

MT DIABLO

Danville, CA



Walls of Glass - Finished Interior - Indoor Pond



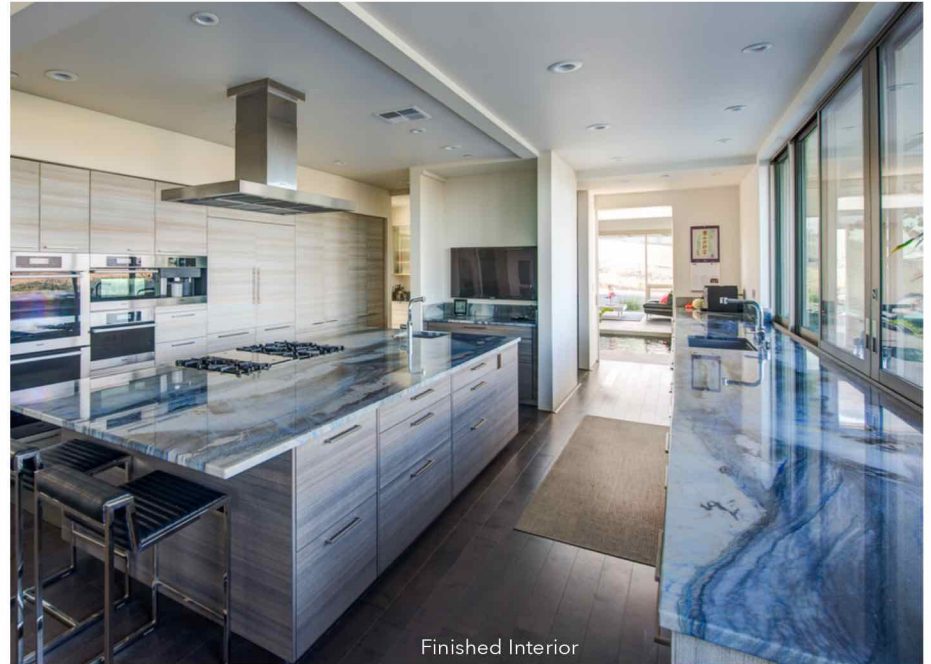
Bundled Shipment



Pre-Fabricated Assembly



Pre-Cut Shrink Wrapped Insulated Panels



Finished Interior

This sprawling 10,300 sq ft steel prefab home estate is perched opposite Mt. Diablo in the east hills of Danville, CA. Designed by Architect Bendrew Jong, engineered by EcoSteel, this project is now completed.

- 10,300 Sq Ft Rural Contemporary Home
- Custom Wall and Parapet Colors
- Minimal Staging Area due to limited Environmental Impact
- High Thermal Efficiency with 3" R24 wall and 5" R41 Roof Panels
- Roof Mounted Photovoltaic Solar Panels

SAINT HELENA

NAPA VALLEY, CA



Architectural Steel Trusses - Superior Energy Efficiency - Custom Exterior



As Napa Valley strives toward progression and continually evolves new and innovative methods for viticulture and wine fermentation, the local homeowners evolve as well. Towering above the famed Napa Valley atop a lush and vegetated hilltop sits this 6,800 square foot testament to modern & contemporary architectural design. Equipped with personalized [Custom Exterior Finishes + Custom Standing Seam Roof](#) and engineered for the installation of photovoltaic panels, these homeowners will monitor their personal vineyard while enjoying extreme thermal efficiencies achieved by EcoSteel's pre-insulated steel panels.



The Original Homepage + Workspace retail store burned down. So this client came to EcoSteel seeking to build with **Non-Combustible** materials, but also sought a visually pleasing retail space be achieved using EcoSteel's commercial and industrial methods and materials.

The result is a 10,340 square foot steel building complete with **2HR fire rated panels**. To ensure this project remains on budget, interior structural elements were left exposed. The back interior faces of our pre-insulated steel panels were also left exposed to shave cost and provide a unique and interesting interior look.

EcoSteel will overlay this project's MEP plans with our **BIM 3D modeling** to ensure elegant integration. This client also chose EcoSteel because of our Revit 3D modeling capabilities. It was important to easily make design changes early in the process in a virtual environment to ensure the client's design desires were met.

GOSHAWK RANCH

Park City, UT



Bolted Steel Frame - Floor To Ceiling Windows - Hybrid Finish



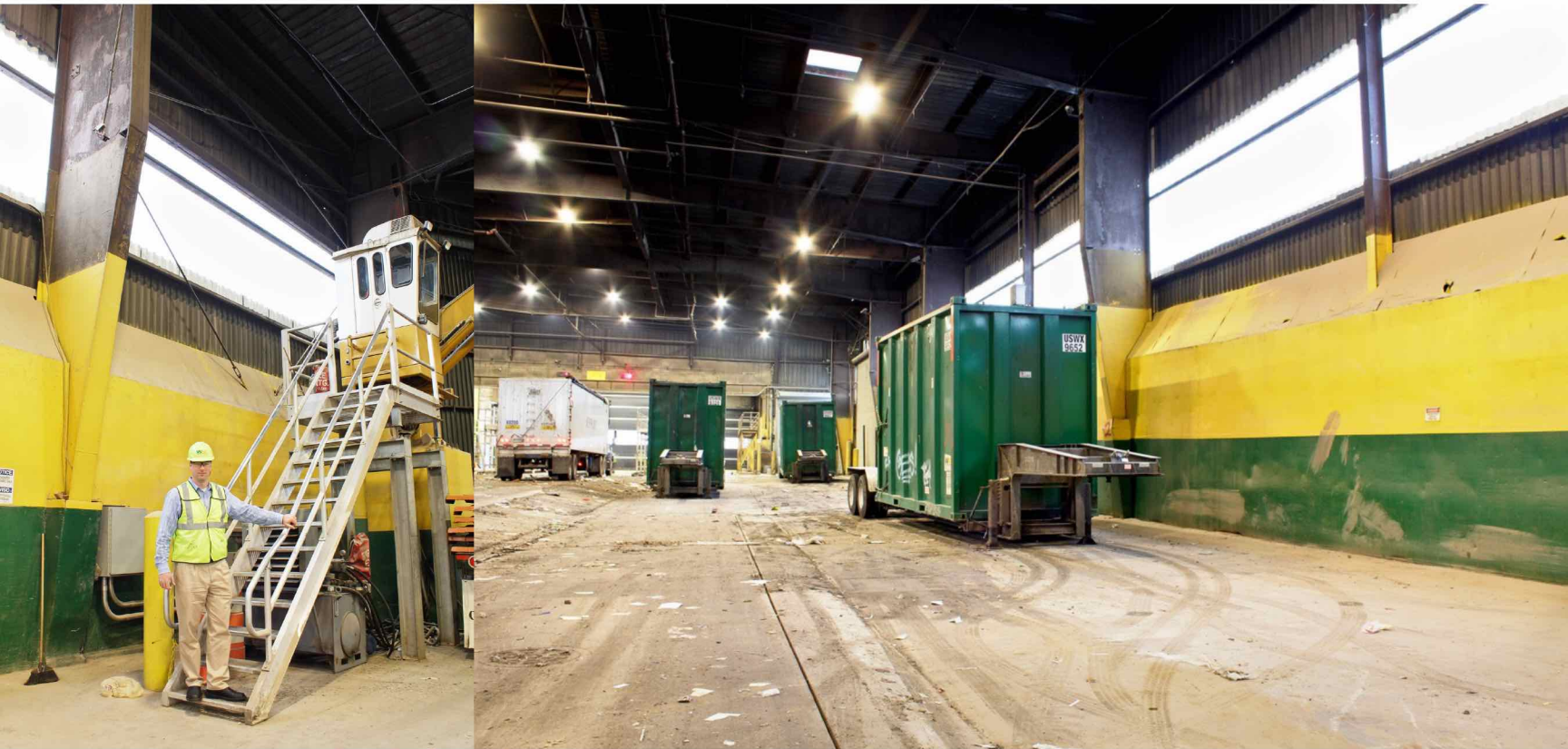
Modern Prefab meets an EcoChic Design. Off-Grid Operation with Solar Power, 10,000 Gallon Water Storage, Grey Water tanks for irrigation, and many security features we are unable to mention due to client request for privacy. This property has **Limited Site Access** and strict rules against disturbing surrounding vegetation. The Bolted Steel Frame System capitalizes on the expansive views from this 14 acre lot. With three stories of **Floor-To-Ceiling Windows** and vaulted ceilings, this home bathes you in light and mountain vistas. The open floor plan creates spacious gathering areas and great rooms, and the two kitchens, two master suites, and numerous outdoor spaces. In each room of this all steel home, trusses and beams have been left exposed, creating an **Intriguing Industrial Look**. Wood and stone floors, custom cabinets, granite countertops, and glass light fixtures accent the interior's clean style. Both Master Suites boast luxurious tubs with views as well as sitting areas with fireplaces.

WASTE MANAGEMENT

Brooklyn, NY



Industrial Building - 12 Week Completion Time - Safer Work Environment



80,000-square-foot [Industrial Building Solution](#) for Waste Management, Inc. includes a transfer station and processing facility in Brooklyn, N.Y. EcoSteel teamed up with WM to create this large custom building solution. With a [Three-Month Project Time Frame](#), an aggressive budget and no available building plans, EcoSteel was able to complete the project within 12 weeks. A safer work environment is available with interior lighting from [Translucent Panels](#). In addition to building from a performance standpoint, WM, Inc. also wanted a building representative of a Fortune 200 company. After approaching several steel building companies with no building plans, a tight budget and a rapid three-month project timeline, WM contracted with EcoSteel.

CUSABO PRIVATE ISLAND

Cusabo Island, SC



Flood Zone - Hurricane Rated - Off-site Prefabrication - Completely Off Grid



On a **Private Island** location at the mouth of the Atlantic Ocean sits a refuge in the woods against Hurricanes and frigid temperatures. With Steel a bolted Structure engineered to withstand 14FT Storm Surges, this impressive custom design is a testament to creative thinking. Architecture by Seattle-based Woollen Studio and a Pre-Engineered Building System by EcoSteel, the Cusabo Island home is a prefab wonder.

Engineered to exceed **FEMA Flood Zone** code requirements, with helical foundations, a steel structure, Poly-Iso Insulated steel exterior wall and roof panels, which provide superior insulating properties for frigid winters and allow for extreme 140mph wind loading capabilities while maintaining superior fire resistance. The 3,888 square foot home features a number of balconies, two bedrooms and an open floor plan living and dining area. The home was prefabricated off-site and then flown in via helicopter for quick and low-impact construction (minus the helicopter time).

As the home is located in a remote location on an island, services are not close, so it needed to be **Completely Self-Sufficient** in terms of utilities as well as protection. Solar photovoltaics, a wind turbine and evacuated tube collectors provide enough electricity and hot water to make the home totally off-grid. Rainwater catchment system collects water for household use. The home is also built high off the ground to protect it from storm surges and flooding, but when everything is calm, the owners make use of a screened-in porch on the ground floor to take refuge from the heat and the insects.



ECO STEEL.

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