



ECOSTEEL
ARCHITECTURAL
BUILDING SYSTEMS

STRENGTH IS BEAUTY



INTRODUCTION

When constructing a new building or renovating an existing one, there are many factors to consider. With so many different building end uses, from large warehouses to medical offices and custom homes, the market has a wide array of building needs. EcoSteel building systems are often used today for one and two-story buildings because they provide benefits like durability, speed of construction, design flexibility, attractive appearance, energy efficiency, and they are cost effective to construct and maintain.

EcoSteel building systems come in a variety of shapes and sizes, but at their core they all utilize a custom engineered structural steel frame and a high-performance insulated shell. From sub-zero temperatures to dry heat or high humidity, Mother Nature continually tests the limits of building envelopes. Products from EcoSteel are specifically engineered to secure the interior's climate regardless of exterior weather conditions.

While our insulated wall panels are a popular option, sometimes they are substituted or combined with masonry, stone, pre-cast or tilt-up concrete, wood, glass or other architectural wall treatments. The versatility and flexibility of our building systems allows for a myriad of colors, shapes, textures and designs. Today's building projects require the perfect combination of energy efficiency, creative versatility, and reduced construction cost.

ADVANTAGES

MORE ENERGY EFFICIENT:

- Superior thermal insulation capabilities compared to other insulating materials with an R-value of 8 per inch
- Closed cell Class I fire resistant polyisocyanurate insulation and self-aligning, double interlocking tongue and groove joints with concealed fasteners create an air- and water-tight seal to stabilize interior environments

SINGLE COMPONENT:

- Factory-injected insulation is continuously foamed in-place and integrated with dual metal facing panels to create a single high strength composite

MEASURABLE SAVINGS:

- Fast one-pass, single component installation eliminates the inefficiencies of multi-piece field assembled wall and roof systems saving in installation time and labor costs
- Insulated metal panels have high strength-to-weight ratio that allow for longer spans and reduce structural costs

VERSATILE:

- Hidden fastener systems with a variety of profiles, colors, finishes, accessories and trims integrate into any building design
- Can be used in either vertical or horizontal applications
- Design vision is not compromised when doors, windows or other construction materials are incorporated into the panel assembly

SUSTAINABLE:

- Minimum of 30% Recycled steel content
- 100% recyclable and reusable at the end of its service life
- Contributes to LEED® credits and Net-Zero Energy targets

DURABLE & ECONOMICAL:

- Long service life with extremely high insulation R-values maintained for the life of the building
- Reduces operation costs and maintenance

TESTED & APPROVED:

- Tested for compliance with North American industry standards and codes
- Factory Mutual approved

DESIGN SERVICES:

- Engineered shop/installation drawings
- Complete cladding packages including accessories and trims
- Daylighting systems

MESA

Our Mesa profile panel is the perfect economical choice for exterior / interior wall and ceiling applications on industrial and cold storage buildings. The Mesa profiled facings make it particularly suited for thicker, long-length walls. The standard Imperial White interior finish is well-suited for most applications. Stainless steel and white plastisol are also available for interior use.



FEATURES & BENEFITS

- Low-profile linear surfaces simplify flashing connections to help prevent vapor transmissions at critical areas of the building envelope
- The standard exterior metal surface is embossed 26ga G-90 galvanized steel with standard PVDF and SMP exterior coatings (other coatings may be available)

Standard thickness

2", 2.5", 3", 4", 5", 6"

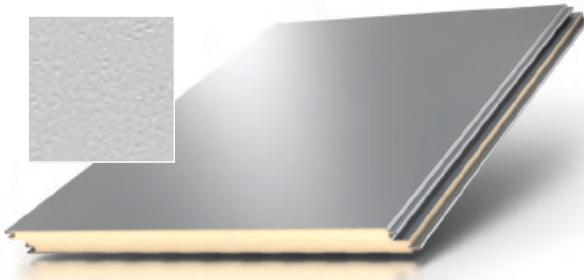
Standard width

40"



FLAT WALL PANEL

Our flat wall panels are produced with standard embossed facings and offer a perfect solution for designers seeking a high-end architectural look. Can be installed vertically or horizontally. The horizontal assembly incorporates a clean, simple end-joint design that utilizes a unique self-aligning aluminum extrusion.



FEATURES & BENEFITS

- The panel's overlapping joint is self-aligning and allows for easy sealant application
- Exterior is 22ga embossed G-90 galvanized steel with standard PVDF and SMP coatings
- Arrives on site in one-piece and requires a simple one-step installation reducing construction time and costs

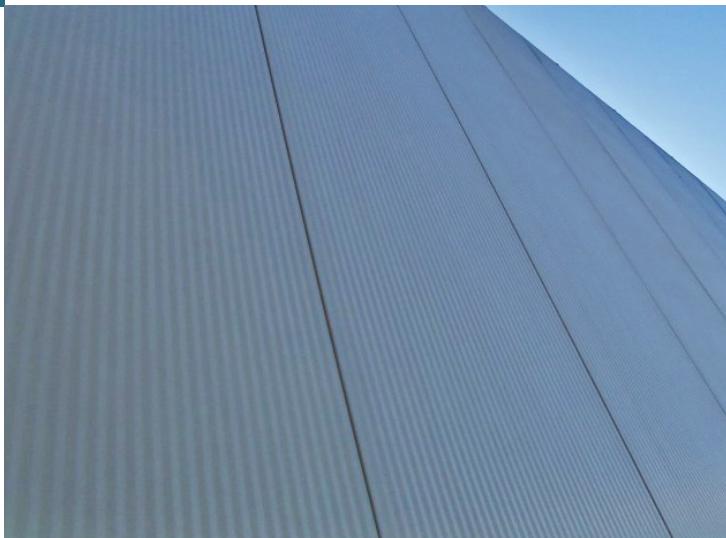
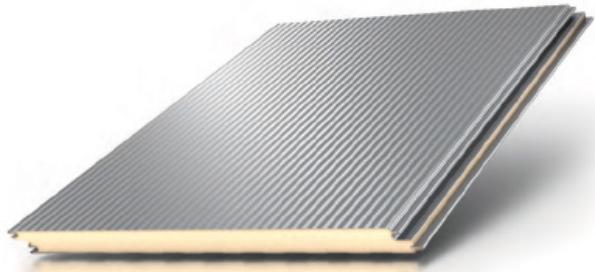
Standard thickness
2", 2.5", 3"

Standard width
36" or 40"



STRIATED

Our Striated wall panel offers an extremely economical exterior solution where a flat, clean appearance is desired. The nominal embossed striations add rigidity and ensure an acceptable flatness tolerance.

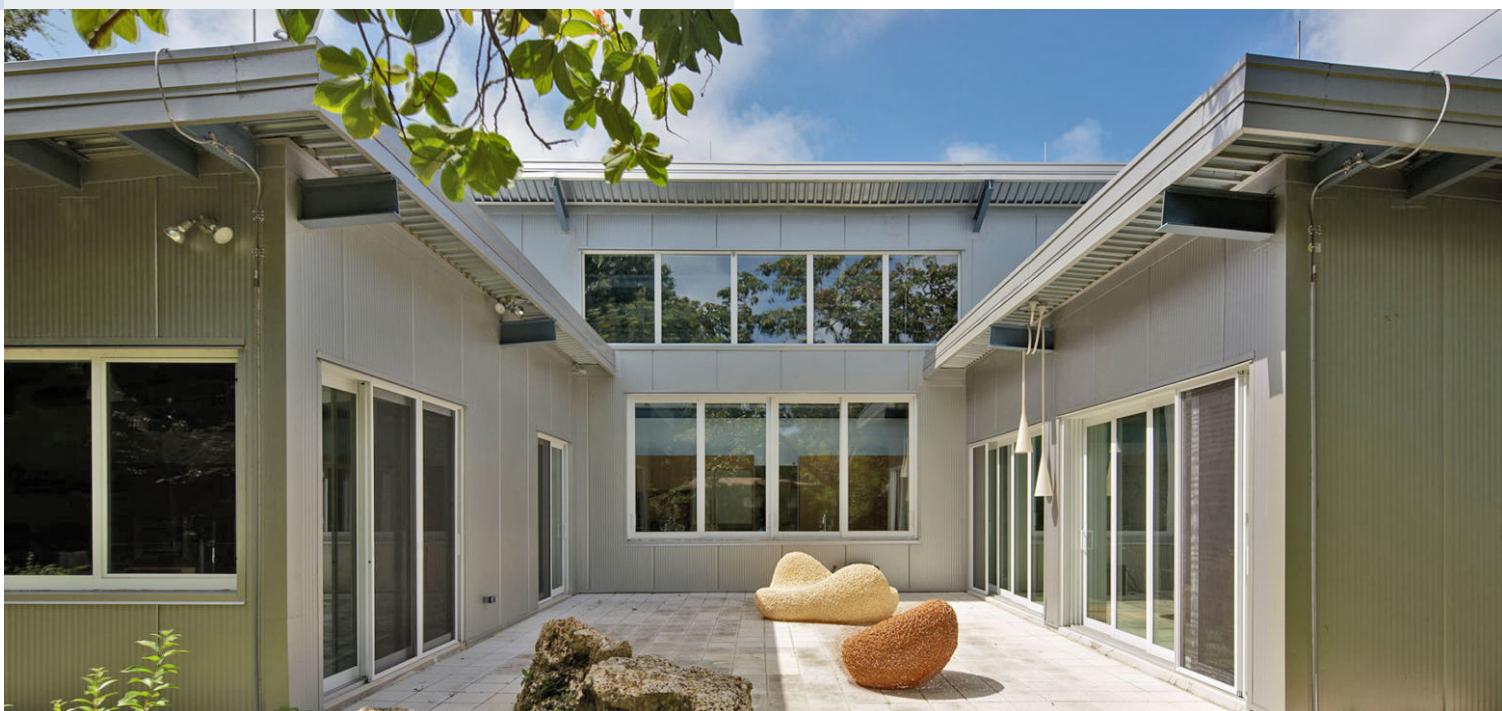


FEATURES & BENEFITS

- The panel's overlapping joint is self-aligning and allows for easy sealant application
- Standard exterior metal surface is embossed 26ga G-90 galvanized steel with standard PVDF and SMP exterior coatings
- The standard interior metal surface is embossed 26ga Imperial White

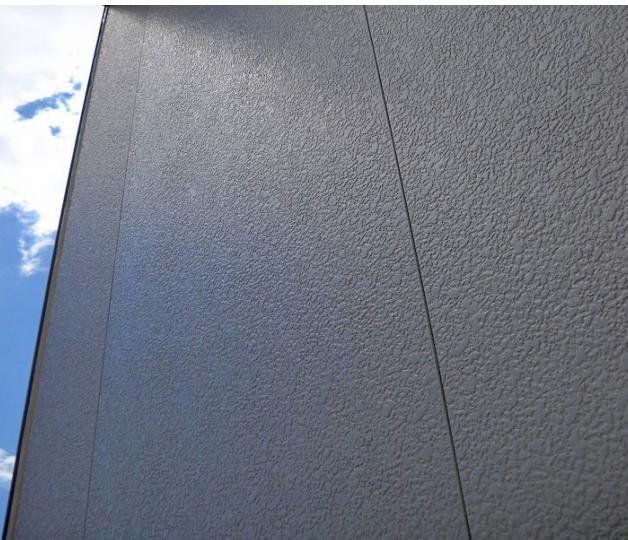
Standard thickness
2", 2.5", 3", 4"

Standard width
36" or 40"



HEAVY EMBOSSED

The distinctive pattern of our Heavy Embossed profile makes this panel ideal for exterior walls on industrial or commercial facilities where design character is desired. The heavy-embossing adds rigidity & maintains a patterned flat appearance.



FEATURES & BENEFITS

- May be installed with a pre-painted finish or field-sprayed with elastomeric coating (not by EcoSteel)
- The overlapping joint is self-aligning & allows for easy sealant application
- Exterior is 26ga G-90 galvanized steel with standard PVDF and SMP coatings

Standard thickness
2", 2.5", 3", 4"

Standard width
40"



WOOD GRAIN FINISH

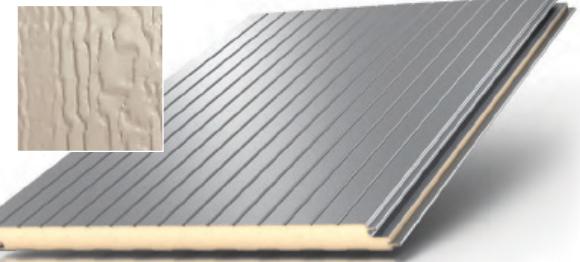


FEATURES & BENEFITS

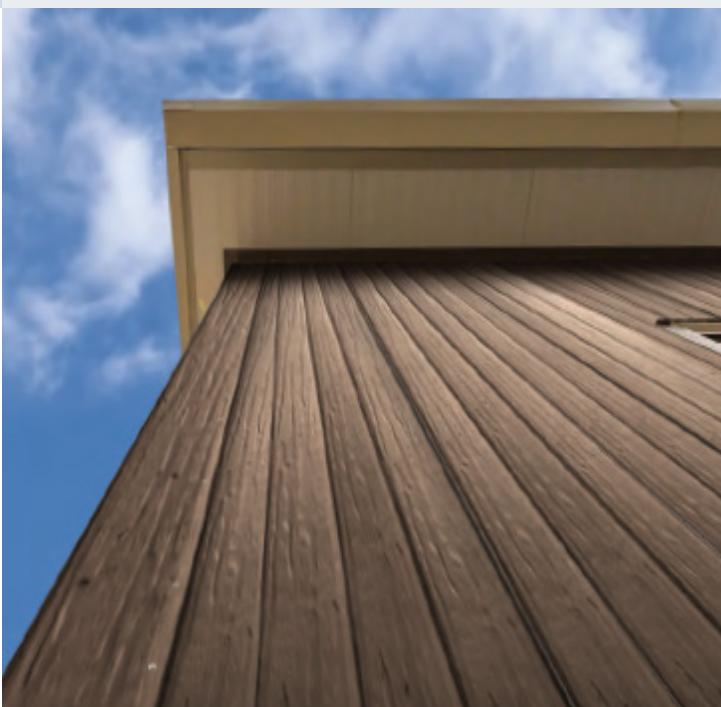
- The profile and finish provide for a bold non-metallic wood grain look
- 25-year limited paint warranty against chalking, fading and loss of adhesion
- The panel's overlapping joint is self-aligning and allows for easy sealant application at the panel joinery
- The standard exterior metal surface is 26ga G-90 galvanized steel with durable ceramic polyester coatings
- The standard interior metal surface is 26ga Imperial White
- The panel arrives on site in one piece and requires a simple one step installation reducing construction time and costs

Standard thickness
2", 2.5", 3", 4"

Standard width
40"



The low gloss scarfed wood grain pattern coupled with our micro-rib profile creates a traditional T1-11 style plywood appearance. This "retro" wall panel comes in four standard colors and includes a long life factory finished paint system along with the exceptional performance characteristics of a composite insulated panel.



The bold low gloss wood grain pattern coupled with our micro-rib profile create a scored plywood appearance.

CORRUGATED

Our new corrugated panel provides distinct texturing and style for a unique "retro" look in both roof and wall applications. Whether installed vertically or horizontally, it is perfect for retail, wineries, and "mixed-use" projects. Contact your EcoSteel representative for minimum roof slope.

For roof and wall applications.



FEATURES & BENEFITS

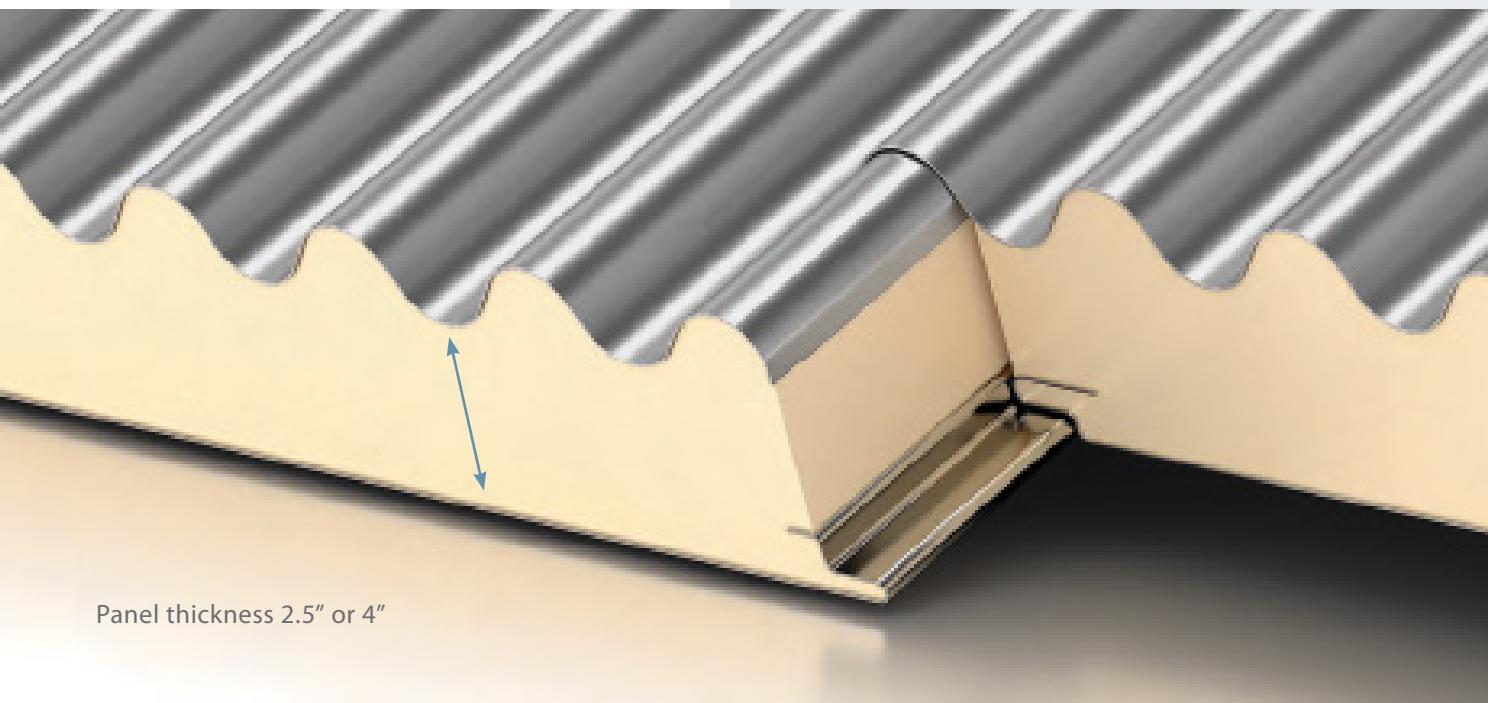
- 7/8-inch thick corrugated panel is 36 inches wide and can be installed horizontally or vertically
- Overlapping joint is self-aligning to allow for easy sealant application
- Standard exterior is embossed 26ga G-90 galvanized steel with fully warranted PVDF and clear polyester SMP coatings
- The panel arrives in one piece and requires one-step installation

Standard thickness
2.5" or 3"

Thickness R-Value
2.5" 23

Standard width
36"

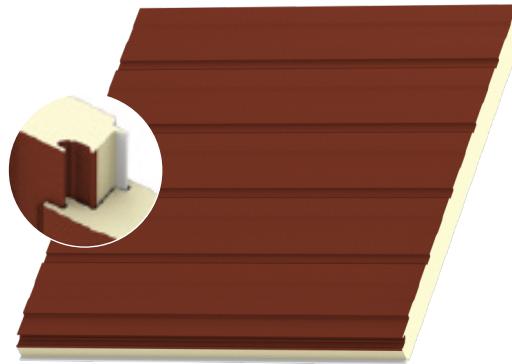
Thickness R-Value
4" 35



Panel thickness 2.5" or 4"

FLUTE

Our Fluted Panel offers a traditional and classic lined panel with a wide array of gauge and finish options for a custom-design. The traditional styling and obvious vertical lines of the Fluted panel are ideal for custom-designed or traditional-building construction, especially commercial and industrial applications.



FEATURES & BENEFITS

- **Exterior Profile:** 1" wide, nominal 3/8" deep, longitudinal reveals at 8.4" on center, embossed
- **Exterior Face:** G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.
- **Interior Profile:** Mesa, nominal 1/8" deep or Light Mesa, nominal 1/16" deep, embossed or unembossed
- **Interior Face:** G-90 galvanized or AZ-50 aluminum-zinc coated steel in 26, 24 and 22 Ga.
- **Joint:** Offset double tongue-and-groove with extended metal shelf for positive face fastening

Standard thickness
2", 2½", 2¾", 3", 4", 5", 6"

Width
42"

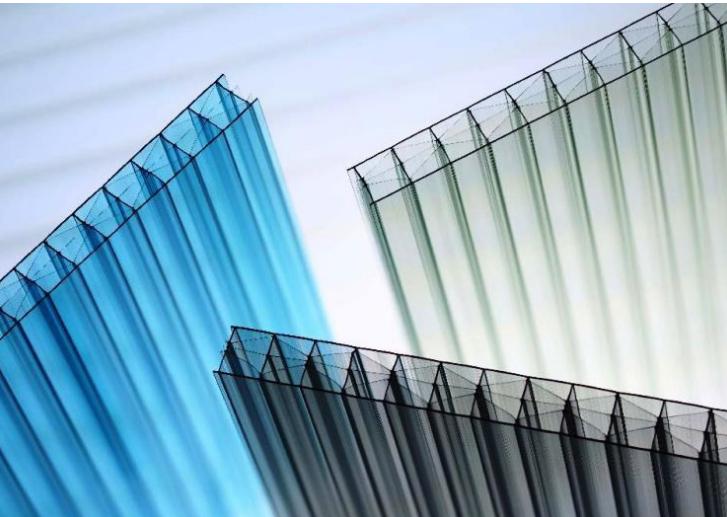
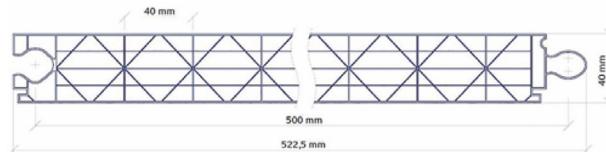
Length (horizontal)
8'-0" to 32'-0"

Length (vertical)
8'-0" to 52'-0"



POLYCARBONATE WALL LITES

EcoSteel polycarbonate wall lites are an excellent daylighting solution designed to perfectly integrate with EcoSteel wall panels. Wall lite system includes standard trims and capture extrusions.



Panel Width
19.7" ± 0.01"

Panel Thickness
1.57" ± 0.03"

Weight
0.82 PSF

Standard Color
OPAL / OPAQUE

Temperature resistance
-40°F TO +212°F

R-Value
4.47 °F FT² HR / BTU

Fire Rating
CLASS A / CC1



Span (ft)
5'-0" 5'-8" 6'-7" 7'-1" 8'-3"

Load (psf)
37.6 31.3 25 18.8 12.5

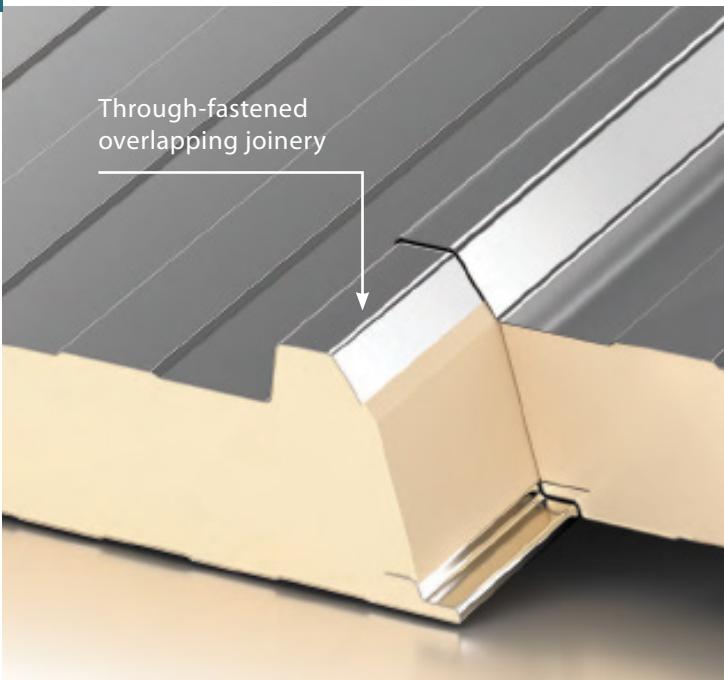
Note:

For optimum cost efficiencies, please design to 5' or 10' wall light heights (5' wall girt spacing)

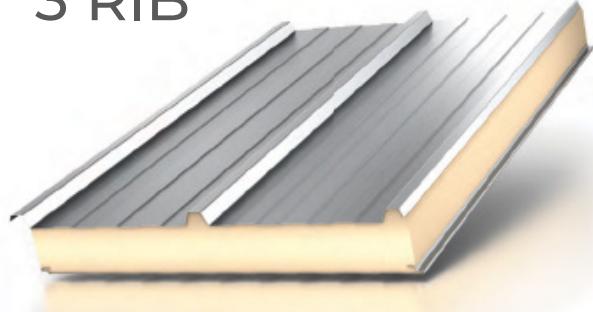
HIGH RIB

An economical solution compared to other field-assembled applications, our high rib panels reduce potential for interstitial condensation. This allows our HR series panels to meet energy codes, unlike traditional high rib fiberglass-insulated, screwed-down roofs.

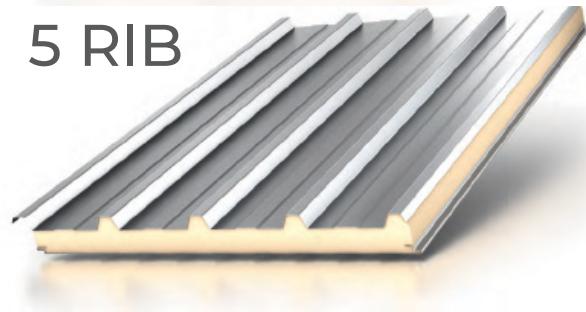
These panels install quickly and easily by through-fastening into the support members, allowing for long spans and/or severe load conditions. A unique EPDM gasketed saddle washer at the standing ribs keeps fasteners out of shed water.



3 RIB



5 RIB



FEATURES & BENEFITS

- The panel's overlapping joint is self-aligning and allows for easy sealant application at the panel joinery
- The standard exterior metal surface is smooth 26ga G-90 galvanized steel with standard PVDF and SMP exterior coatings
- The standard interior metal surface is embossed 26ga Imperial White
- The panels arrives on site in one piece and requires a simple one-step installation reducing construction time and costs

Standard thickness

1.5", 2.5", 4", 5", 6"

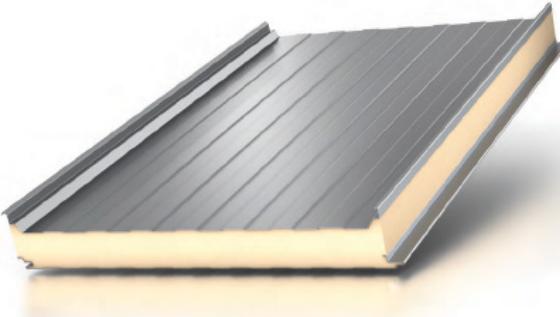
Standard width

40"



STANDING SEAM

Get the look of a traditional metal standing seam roof with all the benefits of an insulated metal panel. Our Standing Seam roof profile offers a field seamed, hidden fastener joinery for maximum protection against the elements.



FEATURES & BENEFITS

- The trapezoidal rib design provides added strength against potential foot traffic damage compared to other standing seam roof panels on the market
- Standard exterior metal surface is smooth 26ga G-90 galvanized steel with standard PVDF & SMP exterior coatings
- Standard interior metal surface is embossed 26ga Imperial White
- Arrives on site in one piece and requires a simple one-step installation reducing construction time and costs

Standard thickness

3.25", 4", 5", 6"

Standard width

40"

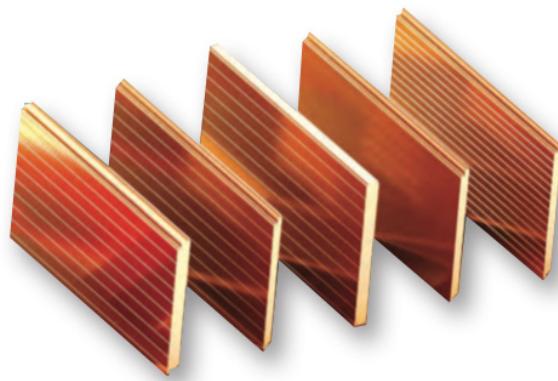


FIRE 1-HOUR RATED PANEL

Available in all standard EcoSteel wall profiles.

Our 1-hour fire rated exterior wall and interior partition panel is factory assembled from a unique combination of tried-and-true cladding components resulting in a building composite that provides superior performance in all categories compared with other fire rated wall assemblies.

fire 1-hour walls are designed to match all standard EcoSteel facing profiles and finishes, so you won't have to settle for compromised aesthetics.



Panel Thickness: 4.5"

Insulating Value (R): 32

Hourly Fire Rating: 1 hour

Panel Width: 40"

Panel Length: 8' to 40' maximum

Insulation Material: CFC-free foamed-in-place polyisocyanurate foam 2.1 to 2.5 pcf density

FEATURES & BENEFITS

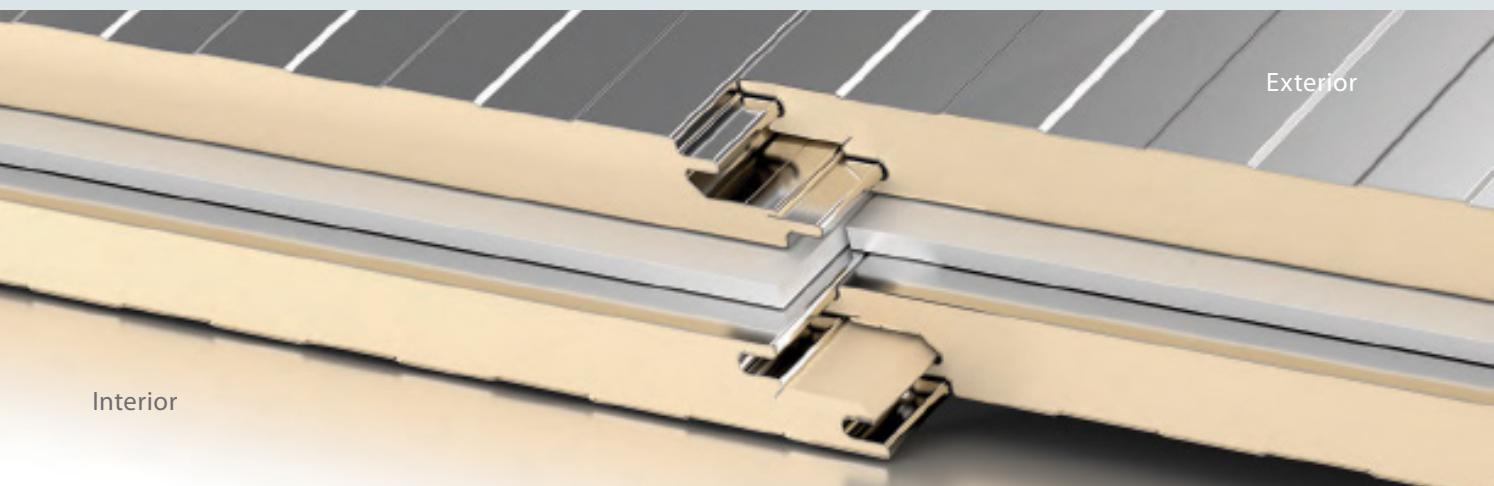
- Factory assembled composite, delivered on site in one piece for easy one-step installation
- Extremely resistant to deflection, breakage and moisture penetration
- Available in all standard colors and profiles as EcoSteel standard 40" wide wall products
- Hidden fastening at joints
- Designed for interior partitions or exterior wall applications

Joint Configuration: Double offset tongue and groove with concealed fastener

Metal facings: 26ga galvanized steel (22ga, 24ga available)

Coatings: PVDF & SMP (other coatings available)

Accessories: Fasteners, concealed fastener clips, sealants, brake formed flashings



1-2-3 HOUR MINERAL FIBER PANELS

Panel Width: 42"
Panel Length: 6' to 40' maximum
Insulation Material: Mineral Wool
Joint Configuration: tongue and grove with concealed fastener, or standard interior joint
Metal facings: Exterior metal surface comes standard embossed 24ga. (26ga through-fasten only available in planked through-fasten assembly)

Standard interior surface: 26ga Imperial White
Stock Colors: Imperial White, Sandstone, Regal White, Surrey Beige
Coatings: PVDF & SMP (other coatings available)
Accessories: Fasteners, concealed fastenerclips, sealants, brake formed flashings
Panel arrives on site in one piece for one-step installation

Panel thickness	R value	Fire rating
4"	15	1 HR
6"	22	2 HR
8"	29	3 HR

PLANKED MF FIRE PANEL



HEAVY EMBOSSED MF FIRE PANEL



The distinctive pattern of our Heavy Embossed profile makes this fire rated panel ideal for exterior walls on industrial or commercial facilities where a patterned, non-profiled appearance is desired.

FEATURES & BENEFITS

- The low profile linear facings simplify flashing connections designed to inhibit moisture vapor transmission
- The panel joint is self-aligning
- The exterior metal surface is embossed 24ga standard (26ga through-fastened only) galvanized steel with standard PVDF and SMP exterior coatings

FEATURES & BENEFITS

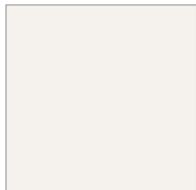
- The low profile linear facings simplify flashing connections designed to inhibit moisture vapor transmission
- The panel can be installed with a pre-painted finish or may be field sprayed with a textured or stucco-style elastomeric coating
- The standard exterior metal surface is 24ga G-90 galvanized steel with standard PVDF and SMP exterior coatings (other coatings may be available)

STANDARD COLOR OPTIONS

EXTERIOR COLORS



REGAL WHITE

IMPERIAL
WHITE

WARM WHITE



SANDSTONE



SURREY BEIGE



PEARL GRAY



SLATE GRAY

WEATHERED
COPPER

COLONIAL RED

NATURAL
GREEN

EVERGREEN



SLATE BLUE



ROYAL BLUE

INTERIOR COLORS

IMPERIAL
WHITE

The colors shown here are representative only and not necessarily true reproductions of actual coating colors. Coil coat color chips are available upon request. For further information regarding color availability, please contact your local sales representative.



CUSTOM COLOR OPTIONS



Corrosion



Ultraviolet



Chemical
Attack



Abrasion



Condensation



- A wide range of solid and metallic colors
- Excellent durability and weather performance
- Energy Star and Cool Roof options
- Contributed to LEED credits

STANDARD PAINT FINISHES

100 .7 MIL NOMINAL TOP COAT | .2 MIL NOMINAL PRIMER | SUBSTRATE

Durable Imperial White composite polyester resin is our standard interior coating that resists scratching, is easy to clean, and meets most application requirements.

500 .7 MIL NOMINAL TOP COAT | .2 MIL NOMINAL PRIMER | SUBSTRATE

Workhorse exterior silicone modified polyester resin coating provides superior resistance to chalk and fade, ideal for commercial and industrial applications.

750 3.8 TOP COAT | .2 MIL NOMINAL PRIMER | SUBSTRATE

Thick PVC coating perfect for corrosive environments in roof, wall, and ceiling projects requiring routine wash down.

1000 .7 MIL NOMINAL TOP COAT | .2 MIL NOMINAL PRIMER | SUBSTRATE

Fluoropolymer coating (70% Kynar 500 or Hylar 5000 resins) is 2-coat high performance paint for outstanding resistance to ultraviolet radiation. Exotic and high-build finishes available.

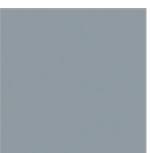
TYPICAL COIL TEXTURES & FINISHES



Heavy Embossed



Light Embossed



Non-Embossed Smooth Finish



Clear Coat Galvanized

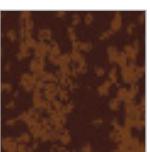
SPECIALTY & EXOTIC FINISHES AVAILABLE



Rustic Copper



Weathered Zinc



Natural Rust

We also offer non-standard specialty finishes to serve in extreme environments. For more information, ask your EcoSteel Representative or see our Colors & Finish Literature for details.

Note: Depictions of colors here are a close representation. For an accurate depiction, please request chip samples in desired color.

For additional information, please see our Color Chart.



WHY INSULATED METAL PANELS



MATERIALS

EcoSteel panels are comprised of an advanced urethane core* that is injected between two pre-finished steel facings, forming a single, all-in-one unit. The result is the most thermally efficient panel available. Wall panels also have a specially formed side joint that permits the hidden application of sealant within recessed grooves, creating an impenetrable water and vapor seal that protects your building against extreme weather.



TIME

EcoSteel panels are pre-fabricated units, shipped to the jobsite ready-to-install in nearly all types of weather.



LABOR COSTS

Insulated metal panels are designed for easy and efficient installation to keep your project on schedule.

IMPs reduce the amount of labor trades associated with conventional multi-component wall and roof assemblies. IMPs all-in-one construction provides all necessary thermal, air, vapor, and water barriers in a single product.



ENERGY EFFICIENCY

Each insulated metal panel contains an advanced urethane core* that provides highly efficient insulation to drive down building energy usage and overall costs.



PRESENCE

EcoSteel strives to offer production dates determined by customer needs, not manufacturer convenience. With manufacturing locations across the United States and Canada, EcoSteel offers faster service to our customers and reduced transportation costs.



GREEN STANDARDS

EcoSteel panels are sustainably constructed, qualifying many buildings for credits in the Leadership in Energy and Environmental Design (LEED®) Rating System.



* ThermalSafe panels contain a fire-resistant mineral wool core.

SUSTAINABILITY

EcoSteel is committed to the future and the environment. Our insulated metal panels are manufactured to deliver superior thermal capabilities designed to minimize the use of energy required in the heating and cooling of buildings.

We manufacture using materials that meet or exceed regulatory standards for the reduction of global warming potential and our panels have zero ozone depleting potential. We also use recyclable materials to produce 100% recyclable products and incorporate finishes that are engineered to reduce the carbon footprint and maximize solar reflectance and thermal emissivity.

LEEDS CREDITS

Using EcoSteel panels can contribute to LEED credits in the following categories:

- LEED SS Credit 7.2 – Heat Island Effect – Roof LEED EA Prerequisite 2 – Minimum Energy Performance
- LEED EA Credit 1 – Optimize Energy Performance
- LEED MR Credit 1.1, 1.2 and 1.3 – Building Reuse
- LEED MR Credit 3 – Materials Reuse
- LEED MR Credit 4.1 and 4.2 – Recycled Content
- LEED IEQ Credit 4.1 – Low-Emitting Materials – Adhesives and Sealants
- LEED IEQ Credit 8.1 – Daylight and Views – Daylight
- LEED WE Credits 1-3 Water Efficient Landscaping, Innovative Wastewater Technologies, Water Use Reduction
- LEED ID Credit 1 – Innovation in Design

GLOBAL STEWARDSHIP

No Volatile Organic Compound (VOC) - Panels do not contain VOCs and do not contribute to air pollution.

No Ozone Depleting Potential (ODP) - Have zero Ozone Depleting Potential & there are no limits by the EPA for its use today or in the future.

No Global Warming Potential (GWP) - Panels meet EPA blowing agent requirements for the reduction of Global Warming Potential.





R-VALUES

R-Values for 75° mean based on ASTM C518: Steady State Thermal Transmission. R-values for 40° mean based on interpolated data from ASTM C1363: Hot Box Apparatus. Values shown are for general use only. They do not reflect system or specific end-use insulation values.

Thickness	75° Mean	40° Mean
2"	15.72	16.95
2.5"	19.45	21.19
3"	23.18	25.42
3.25"	25.05	27.54
4"	30.65	33.89
5"	38.12	42.36
6"	45.59	50.84

COMMERCIAL



RESIDENTIAL





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