

Metal Wall & Roof Systems
North America

LEED® V4 SUPPORT GUIDE

Sustainability and Energy
Efficiency Using Metal
Wall and Roof Systems





MORIN AND LEED®

Morin's Single Element Metal Wall and Roof Panel Systems meet the requirements as specified in the U.S. Green Building Council's Leadership in Energy & Environmental Design (LEED®) Green Building Rating System. Our commitment to energy efficiency, environmental responsibility and sustainability is evident through our products and services offered at manufacturing facilities located in Connecticut, California and Florida.





MORIN'S GREEN BUILD MISSION

Offer single element metal wall and roof panel systems that contribute points to the LEED® Green Building Rating System.

Deliver metal panel systems with paints and finishes that are fundamental to attaining a LEED® green building.

Assist architects, engineers, designers, building owners and metal panel contractors in achieving a LEED® certified building by supplying energy efficient sustainable products that will have a positive impact on the environment and community.





SUSTAINABLE SITES

Strategies under Sustainable Sites (SS) address impacts by rewarding decisions about the environment surrounding the building, and emphasizing the vital relationships among buildings, ecosystems and ecosystem services.

They focus on restoring project site elements, integrating the site with local and regional ecosystems, and preserving the biodiversity on which natural systems rely.

HEAT ISLAND REDUCTION

The intent is to minimize effects on micro-climates and human and wildlife habitats by reducing heat islands.

LEED CREDIT SS 7.2: HEAT ISLAND EFFECT – ROOF

Morin uses paints with solar reflective pigments from Sherwin Williams for both wall and roof products which assist in reducing the thermal conductivity of the entire building envelope.



Case Study 

**CD Smith
Construction
Corporate Office**

Products:
Morin Matrix Wall Panels

Building Use:
Office

Sqft:
8,700

LEED® Certification Level
Gold



ENERGY & ATMOSPHERE

Starting with a focus on reducing energy demand through guidance related to energy usage and efficiency, and then also rewarding renewables, LEED® raises the bar on energy and offers new solutions for achieving goals.



The intent is to reduce the environmental and economic harms of excessive energy use by achieving a minimum level of energy efficiency for the building and its systems including the envelope (enclosure).

LEED CREDIT EA 2: ONSITE RENEWABLE ENERGY

To get to the Net-Zero Energy goal set for 2025, renewable energy will be required.

Morin's Standing Seam Roof Panel System provides an excellent substrate for connecting Solar PV Panels.

Utilizing a clamp system, Solar PV panels can be easily connected to the roof without the need for mechanical connection to the roof which may compromise weather tightness and manufacturer warranty.



Case Study 

WSU Elson S Floyd Cultural Center

Products:
Morin W-12 Wall Panels
& SLR Roof Panels

Building Use:
Education / Culture

LEED Certification Level
Gold



MATERIAL & RESOURCES

LEED® changes the paradigm for how decisions are made about materials that go into the buildings we spend so much of our time in by giving new information to decision makers.



Case Study



**OHSU Portland
Ambulatory Surgery Center**

Products:
Morin Z-12 Wall Panels

Building Use:
Healthcare

Sqft:
41,000

LEED® Certification Level
Gold

LEED CREDIT: RECYCLED CONTENT

Morin is committed to partnering with metal suppliers who are likewise looking to reduce the harmful effects of extraction and processing of virgin materials.

Morin's Architectural Metal Wall and Roof Panels are manufactured in a number of different substrates from a variety of manufacturers. Listed below are the average recycled contents from these manufacturers, but it is worth noting that these are constantly improving. Major US steel manufacturers can offer up to a total of 75% recycled steel utilizing state of the art, Electric Arc Furnaces.

Rolled steel and aluminum may be provided with higher recycled content by special request.

Average recycled content by material:

- 30% total recycled content for rolled steel¹
- 60% for stainless steel²
- 40% for aluminum³
- 75% for copper⁴
- 50% for alloyed zinc⁵

1 Steel Recycling Institute: www.recycle-steel.org

2 International Stainless Steel Forum: www.worldstainless.org

3 The Aluminum Association: www.aluminum.org

4 Copper Development Association: www.copper.org

5 International Zinc Association: www.zincworld.org



INDOOR ENVIRONMENTAL QUALITY

Buildings and spaces with good indoor environmental quality protect the health and comfort of building occupants.

Going a step beyond, high-quality indoor environments also work to improve the building's value, enhance productivity, decrease absenteeism and reduce liability for building designers and owners.

LEED CREDIT: LOW-EMITTING MATERIALS – ADHESIVES AND SEALANTS

Morin uses Tremco JS-773 sealant in some of its products containing a VOC content of 151 g/L. This satisfies credit IEQ Credit 4.1 as per the Architectural standard of 250 g/L.

LEED CREDIT: LOW-EMITTING MATERIALS – PAINTS AND COATINGS

All metal is pre-coated before it is received at any of the Morin manufacturing locations.



Case Study 

WE3 at Water's Edge

Products:
Matrix MX-1 Wall Panels

Building Use:
Commercial Office

Sqft:
49,000 perforated
& 19,000 solid

LEED® Certification Level
Gold



INNOVATION

To encourage projects to achieve exceptional or innovative performance to benefit human and environmental health and equity.

To foster LEED® expertise throughout building design, construction, and operation and collaboration toward project priorities.

LEED CREDIT ID 1: INNOVATION IN DESIGN

With the unique nature of Morin's rainscreen wall panels and standing seam metal roof panels, the possibilities are endless. Morin panels provided in zinc have an average life span of 100 years on a roof and 200 years on a façade.

Up to five points are available with the Innovation in Design credit. The design team should collaborate to create an innovative building envelope with Morin's products in mind.



Case Study

Confluence Tower

Products:
Morin F-12 Wall Panels

Building Use:
Residential

Sqft:
5,000+

LEED® Certification Level
Gold





REGIONAL PRIORITY

To provide an incentive for the achievement of credits that address geographically specific environmental priorities. To provide an incentive for the achievement of credits that address geographically specific environmental, social equity, and public health priorities

LEED CREDIT: REGIONAL PRIORITY

Morin has four plant locations: Bristol, CT, Fontana, CA, DeLand, FL and Little Rock, AR.

The USGBC has identified certain regions where specific credits take a higher precedence.

The design team should [click here](#), scan the QR code or visit: www.usgbc.org for more information on regional priority credits.



WE ARE PLANET PASSIONATE

Our Global
Sustainability
Program



Planet Passionate is Kingspan's global environmental sustainability program that aims to impact on three big global challenges; climate change, circularity and protection of the natural world.



OUR APPROACH

Our mission is to help accelerate the transition to a net-zero emissions built environment, with people and planet at its heart. This mission is driven by our comprehensive global environmental sustainability programme which sets ambitious targets across four key areas: Energy, Carbon, Circularity and Water.

We are very proud of the progress we have made including achieving three of our targets ahead of schedule. Looking ahead, we have updated the programme to reflect current and future growth trajectory. This includes the addition of three new targets to replace those achieved ahead of schedule and the adjustment of our existing carbon targets.



ENERGY

Achieve **ISO 50001** Energy management system for larger sites² by 2030.

Increase our direct use of renewable energy to **60%** by 2030.

Install solar PV systems on **all owned facilities** by 2030.



CARBON

65% Scope 1 and 2 GHG emissions reduction¹ by 2030.

15% reduction in CO₂ intensity from key raw materials by 2030.

>90% zero emission ready company funded cars by 2030.



CIRCULARITY

20 product takeback and recycling schemes by 2030.

1.5 million tonnes of recycled and renewable raw materials used annually by 2030.

Zero company waste to landfill³ by 2030.



WATER

100 million litres of rainwater harvested annually by 2030.



¹ Excluding biogenic emissions. Scope 2 GHG emissions calculated using market-based methodology.

² Large sites: >5GWh annual energy use.

³ Zero waste to landfill: 90% landfill diversion of wastes generated in Kingspan manufacturing, R&D and assembly facilities.

Scan the QR code or [click here](#) for more details on our sustainability journey.



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For the latest product information please visit www.morincorp.com

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By Kingspan