Insulation Considerations: The Case for EPS

Design professionals typically want to use as much insulation on a project, especially in colder climates, without exceeding the thermal mass. While we build to the highest standards, building owners want the highest quality of insulation to keep heating and cooling costs down, while also providing a "payoff through the roof" in the long run. Costs of performance, especially when it comes to insulation, should be viewed as an investment in the long run. By selecting high-quality insulation, the initial cost is more than offset by the long-term savings associated with the energy savings.

Metal Roof Reconnects
For many years, metal roofs were used in conjunction with standing seam roof systems, such as metal roof systems. EPS products are available as "flake" or "granular" systems, with standard and custom options that fit between the metal roof panels. Because EPS concrete is the most efficient and durable, the EPS panels are more cost-effective than metal roof systems.

Build-Up Sloped Roofs
One of the most popular EPS systems is a "folded" panel. This panel is made of EPS and is designed to accommodate the thermal properties of the various components, including the roof deck, insulation, and roof covering. The EPS panels are placed between the roof deck and the insulation, allowing for better airflow and reducing the heat transfer from the roof deck to the insulation. The EPS panels also provide a thermal break, reducing the heat loss through the roof covering.

High-Traffic Areas
For high-traffic areas, such as roof decks, EPS systems are available that have a higher density and provide better support for high-traffic areas. EPS products are available in a variety of thicknesses, allowing for better support for high-traffic areas.

Compared to EPS, metal roof systems are more cost-effective in the long run. The initial cost of metal roof systems is lower than EPS systems, but the long-term savings associated with the energy savings from EPS systems are more than offset by the initial cost. Therefore, EPS systems are a better long-term investment than metal roof systems.