

# POLYSTYRENE PANELS

## POLYSTYRENE INSULATED PANELS

### Expanded Polystyrene (EPS):

Walk-in panel insulation made by expanding polystyrene beads in a mold, then fusing them together. This creates a lightweight foam structure with visible bead patterns.

### Extruded Polystyrene (XPS):

Walk-in panel insulation made by extruding polystyrene through a continuous process, forming a uniform foam structure.

### Ideal For:

Temperature-controlled storage solutions where upfront cost savings are prioritized over long-term thermal performance, and where insulation demands are more moderate or temporary in nature.

### Styrene? We Don't Manufacture It.

Polyurethane foam is the gold standard for walk-in panel insulation. It delivers the highest R-value per inch, ensuring maximum energy efficiency and long-term cost savings. Its closed-cell structure provides excellent moisture resistance and prevents thermal degradation over time.

This makes it the most reliable choice for maintaining consistent temperatures, whether in coolers, freezers, or ultra-low-temp environments. It also offers superior adhesion to panel skins, enhancing structural integrity and lifespan.

Simply put, polyurethane is engineered for demanding applications where performance cannot be compromised.

### Leer.

**Efficient by design. Designed to outperform.**

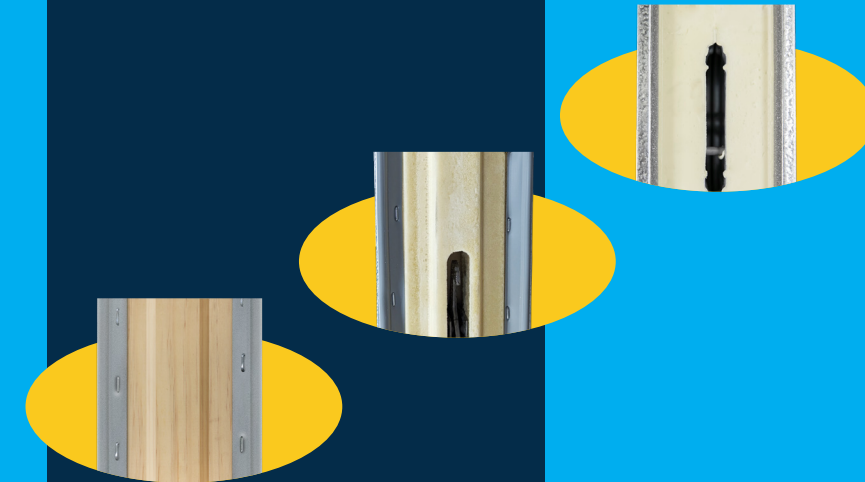


**YOUR TRUSTED PARTNER IN  
TEMPERATURE-CONTROLLED  
STORAGE SOLUTIONS**



Leer Inc. | 206 Leer Street | New Lisbon, WI 53950  
www.leerinc.com | (800) 766-5337 | sales@leerinc.com

Version 0326



**WHICH WALK-IN  
IS RIGHT FOR  
YOU?**

**Your Walk-In.  
Your Needs.**





## WOOD RAIL

POLYURETHANE INSULATED PANELS  
WOOD RAILS



Walk-In panel with a core polyurethane foam insulation that utilizes a wood frame as the edges of the panel.

### Advantages:

- + Most cost-effective polyurethane panel option
- + Rail construction provides the strongest panel structure and requires less structural support
- + Polyurethane foam insulation for long-term thermal performance and R-Value
- + Maintains temperatures as low as -10°F, without drastically increasing panel thickness
- + More energy efficient than expanded polystyrene (EPS) panels
- + Low refrigeration load for longer life expectancy
- + Easily customizable sizing
- + Built for when demands are steady and cost-efficiency is key

### Ideal For:

Temperature-controlled storage solutions needing durable, cost-effective panels with strong structure and consistent performance.



## HIGH-DENSITY RAIL

POLYURETHANE INSULATED PANELS  
HIGH-DENSITY POLYURETHANE RAILS



Walk-In panel with a core polyurethane foam insulation and high-density foam for the edges of the panel

### Advantages:

- + No exposed wood in panel construction, eliminating the perceived risk of rot or moisture absorption
- + Delivers non-wood panel performance at a more accessible price point than Soft Rail
- + Rail construction provides strong panel structure and requires less structural support
- + Polyurethane foam insulation for long-term thermal performance and R-Value
- + More energy efficient than Wood Rail and Expanded Polystyrene (EPS)
- + Lower refrigeration load for longer life expectancy
- + Maintains temperatures as low as -20°F, with no exposed wood
- + Customizable sizing
- + Built for lasting energy savings and structural durability

### Ideal For:

Temperature-controlled storage solutions requiring no exposed wood construction with strong structural support, wide temperature range, and enhanced energy efficiency.



## SOFT RAIL

POLYURETHANE INSULATED  
PANELS AND RAILS



Walk-In panel with a core polyurethane foam insulation that utilizes the same polyurethane foam for the edges of the panel.

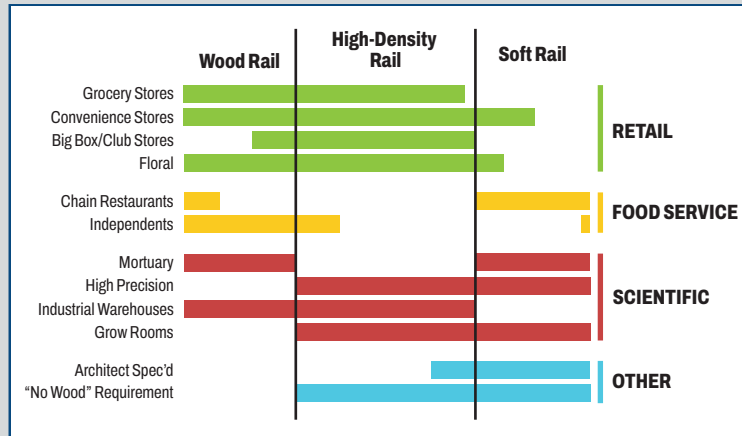
### Advantages:

- + Rail-to-rail foam-in-place polyurethane insulation
- + No exposed wood in panel construction, eliminating the perceived risk of rot or moisture absorption
- + Maintains ultra-low temperatures down to -40°F, with no exposed wood
- + Superior R-value throughout the panel, including seams
- + Most energy efficient panel with the lowest operating costs
- + Lowest refrigeration load for longer life expectancy
- + Tightest sealing panel seams
- + Lightest panels for easier handling and install
- + Great moisture and fire resistance
- + Built for the most precise temperature-controlled demands

### Ideal For:

Temperature-controlled storage solutions requiring the highest temperature precision, energy efficiency, and ultra-low temperature performance in mission-critical environments.

## COMMON APPLICATIONS OF EACH RAIL TYPE



## RAILS COMPARISON AT A GLANCE

	Mfg by Leer	Min. Temp.	Cooler	Freezer	Indoor	Outdoor	Exposed Wood	Consumer Cost	Panel Weight
<b>Wood Rail</b>	Ⓛ	-10°F	✓	✓	✓	✓	Yes	\$\$	Heaviest
<b>High-Density Rail</b>	Ⓛ	-20°F	✓	✓	✓	✓	No	\$\$\$	Heavier
<b>Soft Rail</b>	Ⓛ	-40°F	✓	✓	✓	✓	No	\$\$\$\$	Lighter