

Cold Storage

Cold storage refers to any building, room, or enclosure engineered to maintain consistently low temperatures, often between 55°F to -50°F. Even small temperature fluctuations can result in product spoilage, equipment damage, or compliance violations. Let's see how SynTec Systems' Polyiso Insulation can help deliver performance and reduce energy demands.

BENEFITS

- » **Industry-Leading R-Value** – Polyiso insulation offers the highest R-value per inch over any other common commercial insulation. Excellent thermal resistance allows contractors to meet performance targets with leaner assemblies, resulting in less energy loss and lower operating costs.

Suggested R-Values For Roof Insulation*

Cold Storage Type	Interior Temperature Range °F (°C)	Minimum R-Value For Roof Insulation
Coolers	40°F to 50°F (4.4°C to 10°C)	30 to 35
Chill Coolers	25°F to 35°F (-3.8°C to 1.6°C)	35 to 40
Holding Freezers	-10°F to -20°F (-23.3°C to -28.9°C)	45 to 50
Blast Freezers	-40°F to -50°F (-40°C to -45.5°C)	50 to 60

*2022 edition of the American Society of Heating, Refrigerating and Air-Conditioning Engineers' ASHRAE Handbook – Refrigeration

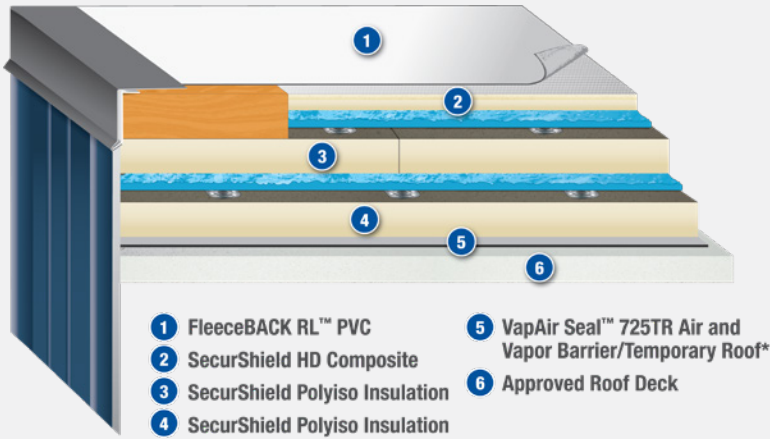
- » **Condensation Control** – Reduce condensation potential when two or more layers of polyiso are installed with staggered joints. Don't miss the details; fill any insulation joint gaps greater than ¼" with closed-cell polyurethane foam to maintain performance.
- » **Dimensional Stability** – Excellent dimensional stability with a 2% linear change over 7 days, passing ASTM D2126.
- » **12' Polyiso Boards** – Carlisle's 12-foot polyiso boards are designed to maximize installation efficiency on large-scale projects. With fewer seams, they reduce thermal bridging and accelerate workflows, enabling crews to cover a larger surface area quickly and consistently.
- » **HD Composite Boards** – Carlisle's exclusive composite boards eliminate a layer of adhesive by combining multiple components in one board, while also improving resistance to punctures and hail to the top of your system.



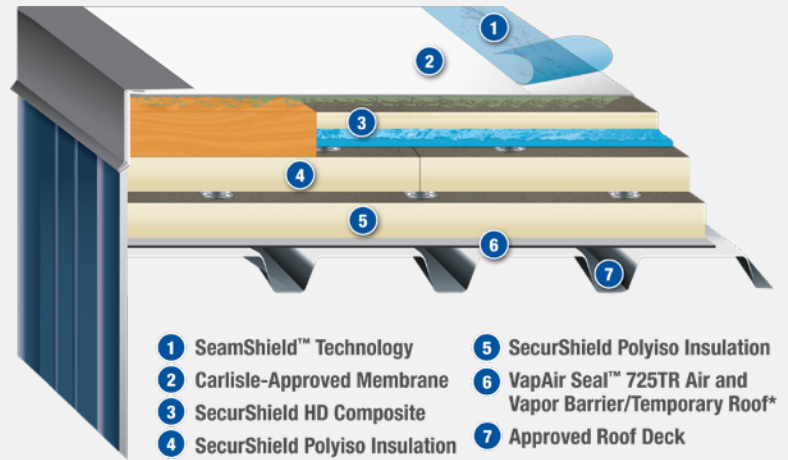
Scan here to see our insulation options!

USING POLYISO IN COLD STORAGE APPLICATIONS

FLEECEBACK



FULLY ADHERED



MECHANICALLY FASTENED

