CARLISLE SYNTEC SYSTEMS

THERMATHIN™ 7

POLYISO INSULATION

Lower Cold Storage Operating Costs with Higher-Performance Roof Insulation

Advanced foam chemistry delivers R-7 per inch, the highest in the industry—providing superior thermal efficiency in a thinner profile.

ThermaThin 7 helps lower operating costs, maintain thermal stability, and protect facility investments year after year.

Discover how ThermaThin 7 reduces energy costs and simplifies construction for cold storage facilities.

Uncompromising Performance for Cold Storage

Cold storage facilities demand 24/7 climate control where the roof is the largest source of heat gain. ThermaThin 7 delivers exceptional thermal performance without adding unnecessary height.

Improving building envelope performance is one of the most effective ways to reduce refrigeration demand and long-term operating costs.

Superior Thermal Performance Drives Operational Savings

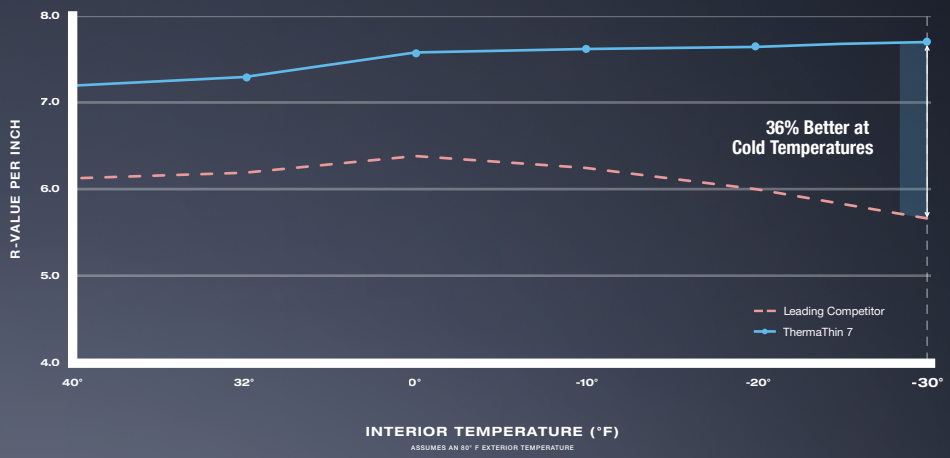
ThermaThin 7 delivers 36% higher thermal performance at 25°F (-4°C) compared to conventional polyiso insulation based on ASTM C518 testing. By reducing heat gain and refrigeration demand, ThermaThin 7 can contribute to six-figure cumulative energy savings over the life of the roof.

Designed to Reduce Operating Costs

ThermaThin 7 helps facilities:

- Reduce refrigeration demand and operating costs
- Improve temperature stability in refrigerated environments
- Maximize insulation efficiency with industry-leading R-value per inch
- Achieve higher thermal performance without increasing roof assembly thickness

R-Value vs. Temperature



Reduce heat gain through the roof assembly

Lower refrigeration energy demand

Improve operating efficiency

Complete System Compatibility

ThermaThin 7 works seamlessly with all Carlisle membrane systems—Sure-Seal® EPDM, Sure-Weld® TPO, Sure-Flex™ PVC, and FleeceBACK® for new construction or retrofit applications.

Brown, Richard E., Jonathan G. Koomey, and Joseph Levy. "Energy Use in Cold Storage Facilities." Proceedings of the ACEEE Summer Study on Energy Efficiency in Buildings, 2002. American Council for an Energy-Efficient Economy.

[1] Tested in accordance with ASTM C518 and using publicly available competitor data. [2] Energy savings estimates are based on modeling of the DOE EnergyPlus Benchmark Large Refrigerated Warehouse template with an R-60 roof assembly across U.S. ASHRAE climate zones. Actual results will vary depending on climate, energy costs, building design, operating conditions, and other factors.

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