

The Next First

Introducing

THERMATHIN™

7

POLYISO INSULATION

20% fewer trucks.

20% faster unloads.

100% of the performance.

CARLISLE
SYNTEC SYSTEMS

PATENT PENDING

The Next First in Roofing Innovation

For decades, Carlisle SynTec Systems has led the industry with breakthrough innovations that set new standards:

- Sure-Seal® EPDM
- 12' InsulBase® Polyiso insulation
- Sure-Weld® 16' TPO
- SeamShield™ Technology
- RapidLock (RL™) Technology
- APEEL™ Protective Film

How Did Code Changes Impact Insulation?

In 2013, ASHRAE 90.1 increased roof R-value requirements by up to 75%. A year later, ASTM C1289 lowered polyiso's thermal resistance (LTTR) to approximately R-5.7 per inch, meaning thicker roof assemblies are needed to meet code.

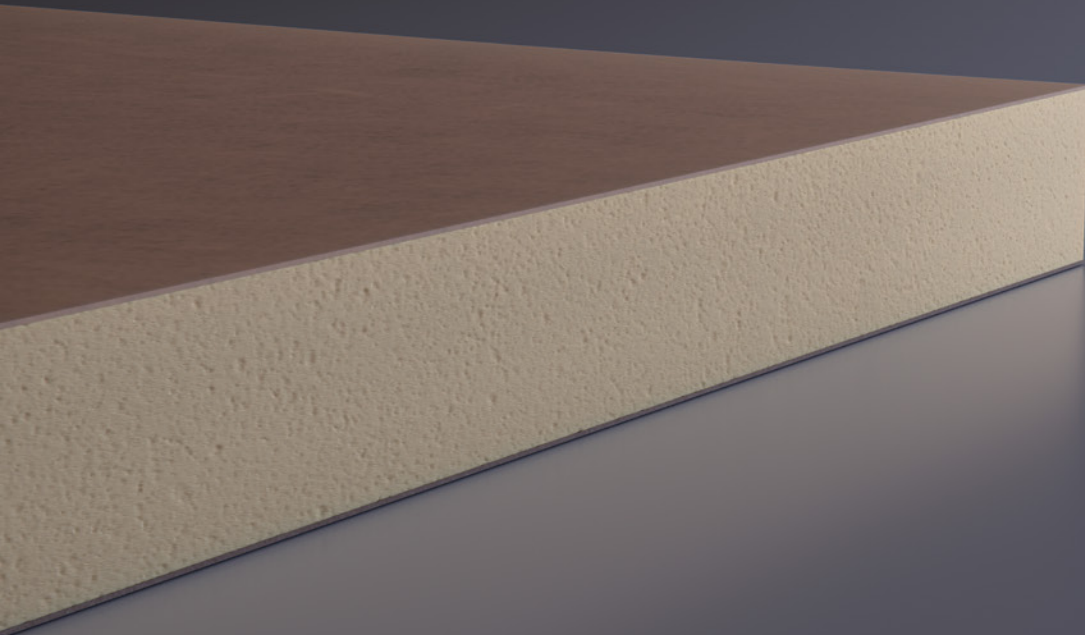
Now we're
pioneering
the next
breakthrough.

THERMATHIN™

POLYISO INSULATION



Advanced foam chemistry delivers R-7 per inch, resulting in **thinner assemblies, fewer truckloads,** and **simpler material handling and logistics.**



Superior Thermal Performance

R-7 per inch

Achieve code-compliant assemblies with reduced thickness

Flexible facer options

Glass-reinforced felt (GRF) compatible with all adhesives; Coated-Glass Facer (CGF) for enhanced moisture, hail, and fire resistance

Closed-cell structure

Resists water absorption, maintaining performance over time

Sustainable Solution

Reduced material usage

Lower embodied carbon per assembly

Eco-friendly blowing agents

Zero ozone depletion, negligible global warming potential

Fewer truckloads

Reduced fuel consumption and emissions

Logistics & Cost Savings

At least 20% fewer trucks

Reduced freight costs, easier delivery coordination, and less jobsite congestion

32 additional squares per truck

3,200 more square feet of insulation per delivery

20% less handling

Less time staging for faster project starts

Installation Efficiency

Reduced roof profile

Reduce the need to raise curbs or parapets

Simplified installation

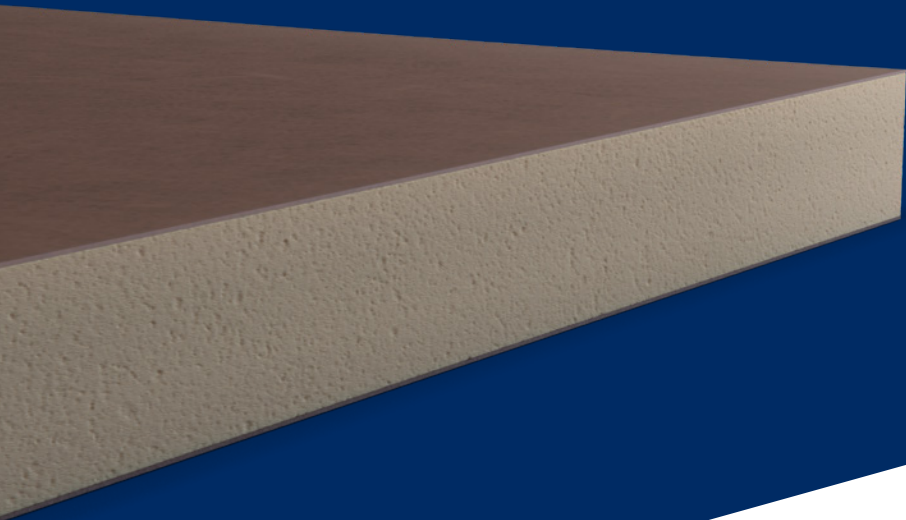
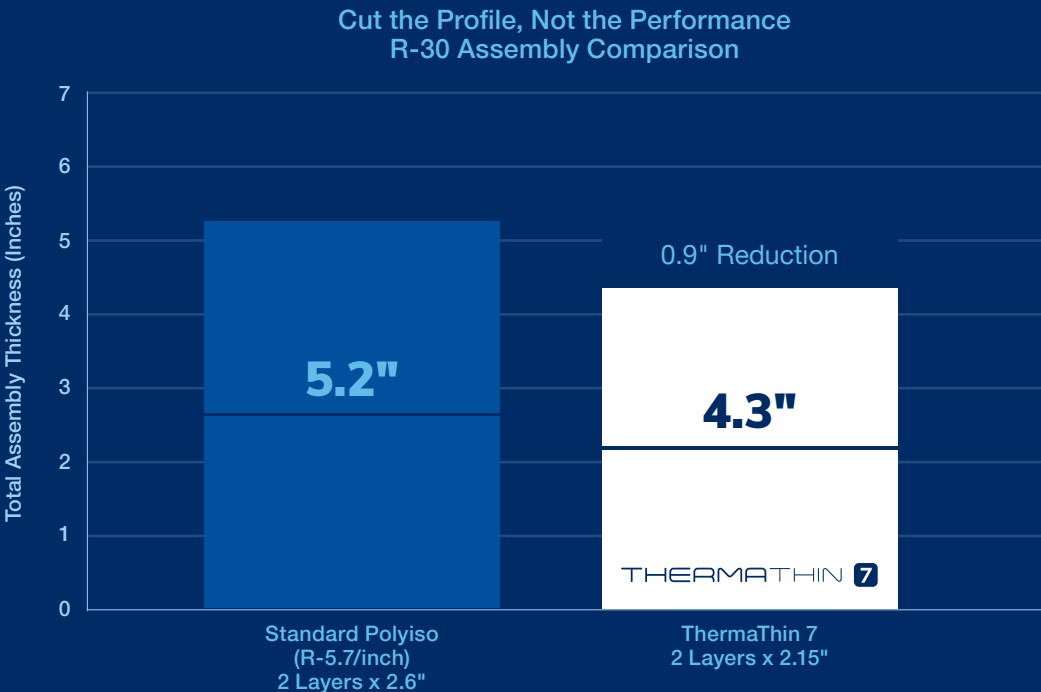
Cuts easily to fit angles and penetrations

Shorter fasteners

Lower material costs and faster attachment

Cut the Profile, Not the Performance

Achieve an R-30 roof assembly with just 4.3" of insulation, down from 5.2" with standard polyiso. The reduced thickness lowers roof height, simplifies detailing at penetrations and transitions, and enables faster, cleaner installation.

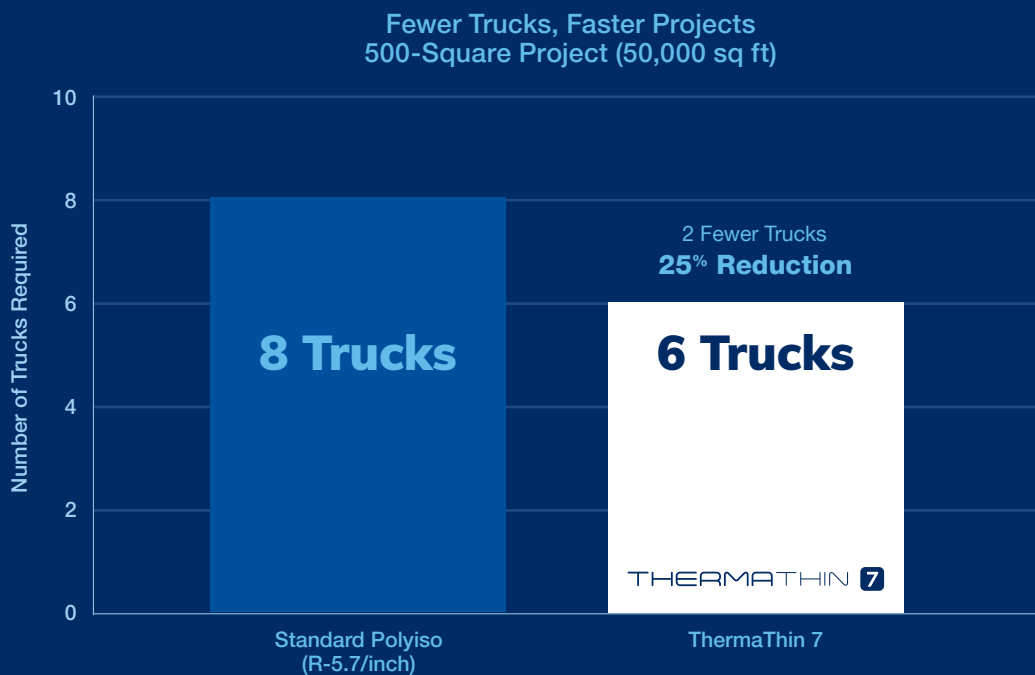


**17%
Thinner**

Fewer Trucks, Faster Projects

Higher R-value per inch means more insulation per truck—each ThermaThin 7 shipment delivers 32 additional squares (3,200 sq. ft.) versus standard polyiso.

For a typical 500-square (50,000 square feet) R-30 project, the logistics savings are substantial.



The Impact:

Reduced freight costs – Fewer deliveries mean lower transportation expenses

Reduced jobsite congestion – Fewer trucks to schedule, park, and unload

Reduced handling – Less time staging for faster project starts

Higher R-Value Without Added Inches

Meet energy codes and cut roof heights with Carlisle SynTec Systems ThermaThin 7. It installs faster and can be used with any Carlisle® system—Sure-Seal EPDM, Sure-Weld TPO, Sure-Flex™ PVC, and FleeceBACK—for new roof or recover applications. Achieve maximum performance without adding unnecessary height.

ReadyFlash® Technology Included

Control adhesive flash-off times with dual-sided facers: dark side accelerates drying, light side slows it down. Standard on all ThermaThin 7 products for maximum installation flexibility.



Engineered for Cold Storage

Cold storage facilities demand uncompromising thermal control. With the roof as the largest source of heat gain, ThermaThin 7 helps meet code requirements while minimizing assembly thickness and simplifying installation.

Achieve R-60 with less insulation: Reduce roof height by 1.8", minimizing retrofit complexity and simplifying detailing

Lower refrigeration demand: Reduce heat gain through the roof to cut operating costs

Improve temperature stability: Maintain consistent conditions in refrigerated environments

Re-Roofing & Retrofits

ThermaThin 7 reduces roof profile by ~17%, minimizing the need to raise curbs or modify parapets. Thinner assemblies use shorter, lower-cost fasteners and reduce material handling.

Applicators

- Installs faster with thinner boards
- Reduces freight costs and jobsite congestion
- Saves labor hours – faster cutting, sizing, application time

Architects

- Meets code with thinner roof assemblies
- Reduces roof thickness and increases design flexibility
- Compatible with multiple roofing systems

Building Owners

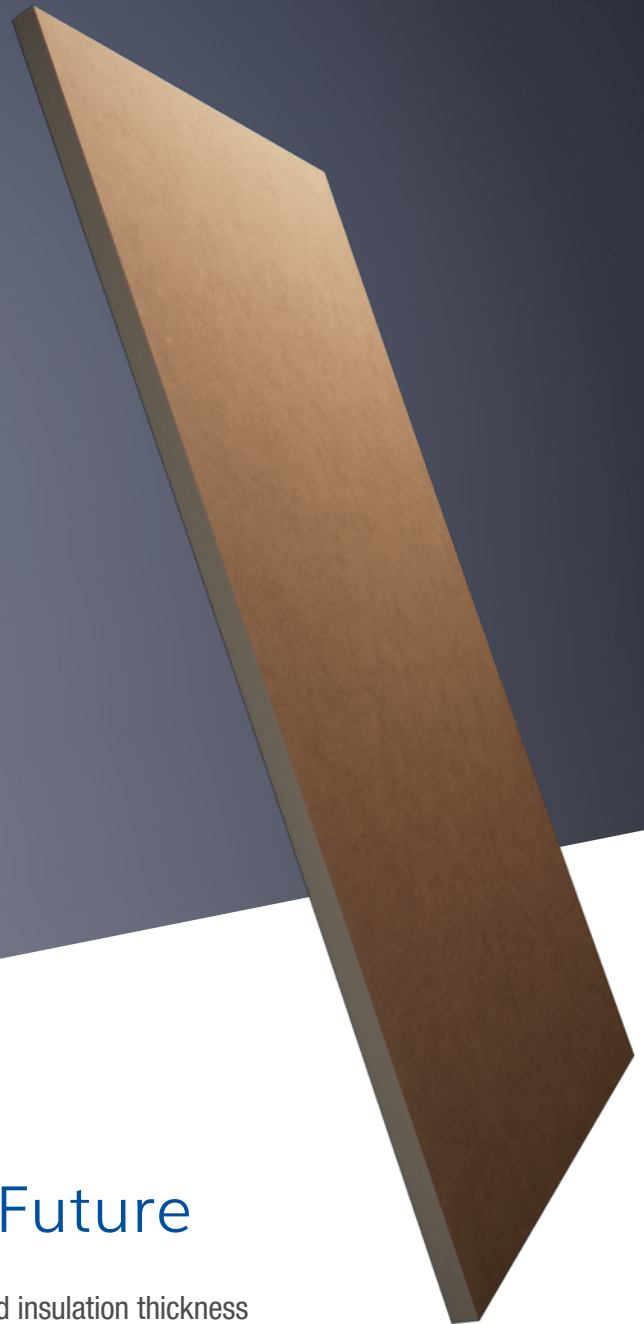
- Lowers energy and operating costs
- Ensures code compliance and futureproofing
- Backed by industry-leading warranties

Built for a Sustainable Future

Less material, lower carbon – Equal R-value with reduced insulation thickness

Fewer emissions – Eco-friendly blowing agents and at least 20% fewer trucks

Future-ready chemistry – Zero ozone depletion, negligible global warming potential

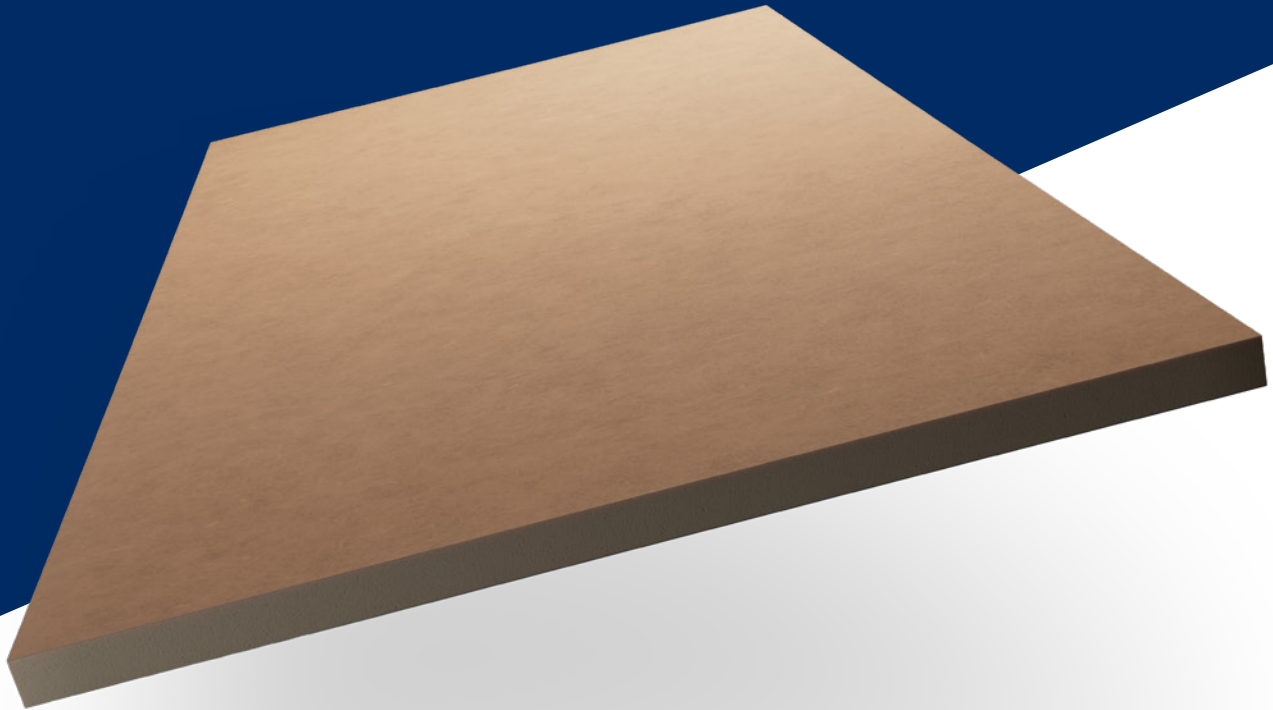


THERMATHIN™ 
POLYISO INSULATION

Experience The Next First

Ready to transform your next project?

Whether you're designing a data center, specifying a cold storage facility, or retrofitting an existing roof, ThermaThin 7 delivers confidence in every layer.



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