

# Sure-Weld® TPO

16' Membrane

## CASE STUDY

### A Comprehensive Roofing Solution for Cold Storage



#### JOB PROFILE

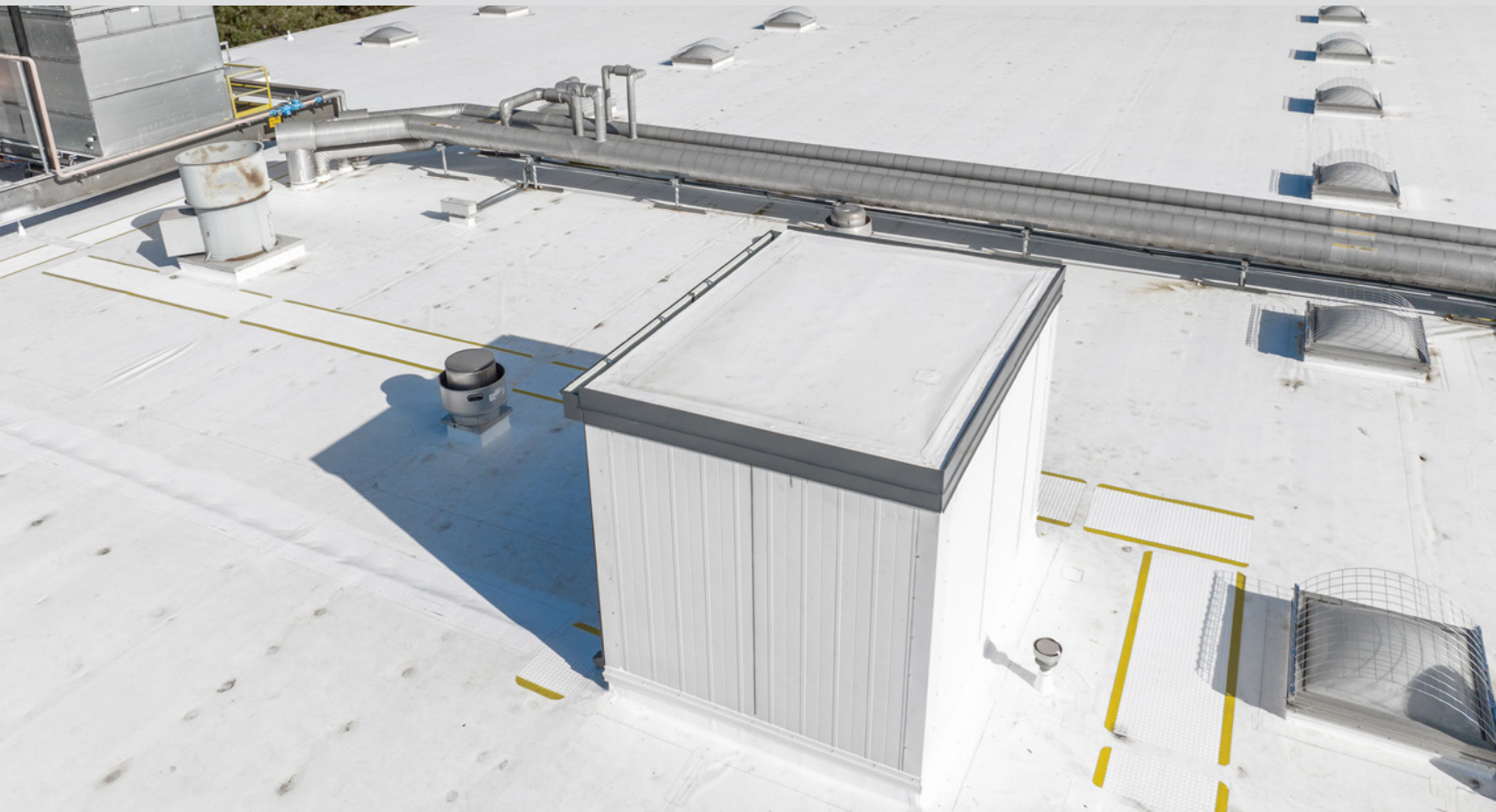
**PROJECT LOCATION:**  
South Carolina

**CARLISLE APPLICATOR:**  
Radco Roofing

- ROOFING SYSTEM:**
- » Sure-Weld 16' TPO
  - » 4' x 12' InsulBase® Polyiso Insulation
  - » OMG RhinoBond® Membrane Fastening System

Cold storage facilities place significant demands on roofing systems. Even minor leaks can quickly escalate into costly problems in tightly controlled environments. Performance Food Group, a leading North American food distributor, was experiencing persistent roof leaks that caused severe ice buildup in the facility's cold and frozen storage areas. Addressing the issue required a roofing system capable of protecting multiple climate-controlled environments — including dry storage, refrigerated storage, and frozen storage — under a single roof.

Carlisle SynTec Systems' roofing products played a central role in the 154,800-square-foot roof replacement at Performance Food Group's cold storage warehouse facility in South Carolina. Installed by Radco Roofing, the project utilized a high-performance system featuring Carlisle SynTec Systems Sure-Weld 16' TPO membrane, InsulBase 4' x 12' Polyiso Insulation, and OMG's RhinoBond Membrane Fastening System to deliver a durable, energy-efficient solution tailored for demanding cold storage environments.



Carlisle SynTec Systems designs roofing systems as fully integrated assemblies, combining single-ply membranes with compatible insulation, fastening technologies, and accessories to create complete roofing solutions. Each assembly is engineered and tested for long-term durability, energy efficiency, and building code compliance — giving specifiers confidence in system compatibility and dependable warranty coverage. With extensive experience supporting complex building types, Carlisle SynTec Systems also provides technical expertise and system solutions that help architects, consultants, and contractors successfully design and install roofing systems for cold storage facilities.

For this project, Sure-Weld 16' TPO membrane from Carlisle SynTec Systems helped streamline installation across the large roof area. The wider sheets significantly reduced the number of seams compared to traditional membrane widths, allowing crews to cover more area with fewer rolls. This not only improves long-term watertight performance but also reduces installation time and labor requirements.

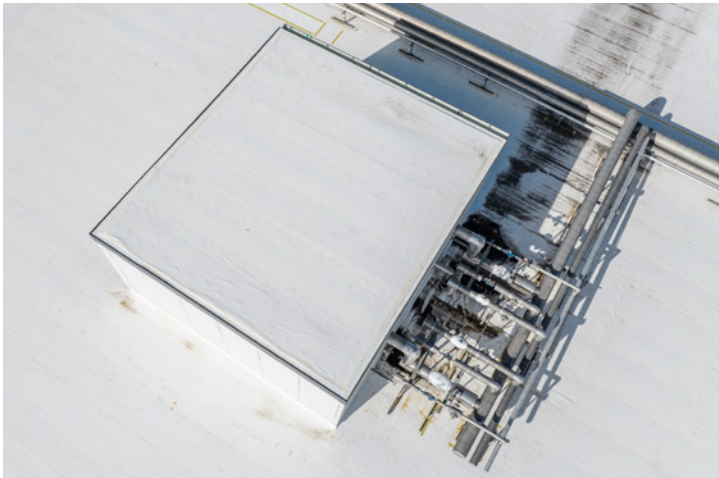


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The membrane also features SeamShield™ Technology, which incorporates an easy-to-remove protective film along the top and bottom seam areas. This film protects the seam area from dirt, debris, and adhesive overspray during installation, revealing a factory-clean surface when removed prior to welding and helping ensure consistent, high-quality seams.

Installation efficiency was further enhanced with InsulBase 4' x 12' Polyiso Insulation boards, which allow crews to cover more square footage with each board. Compared to standard insulation sizes, the larger boards reduce the total number of pieces installed on the roof, helping speed up installation while minimizing fastening points and material handling.



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The roof assembly was installed using the RhinoBond attachment system, which delivers strong wind uplift resistance while minimizing membrane penetrations. This advanced fastening method helps maintain the integrity of the roofing system while contributing to long-term durability.

With nearly four decades of commercial roofing experience, Radco Roofing served as the Authorized Applicator for the project, ensuring the Carlisle SynTec Systems roofing assembly was installed to meet the facility's operational needs.

By combining wider membranes, larger insulation boards, and advanced fastening technology, Carlisle SynTec Systems delivers roofing assemblies that not only perform in demanding environments like cold storage facilities but also help applicators complete large-scale installations more efficiently.

Learn more about Cold Storage  
through Innovative Roofing Solutions.

