

ROOFING

AMERICA FOR OVER 40 YEARS



CARLISLE'S  
**SURE-WELD**<sup>TM</sup>  
IS TURNING  
UP THE HEAT



carlisle-syntec • com

# CARLISLE SYNTEC'S **STRONG COMMITMENT**



Carlisle SynTec Incorporated — Sure-Weld Production Facility, Senatobia, Mississippi

## **The Carlisle Experience — four decades of being your strongest ally.**

The Carlisle company emerged as a manufacturer of automobile inner tubes in 1917. Constant innovations, product changes and company evolution provided the opportunity, in 1950, to develop elastomeric membrane sheeting, utilized for liquid containment systems.

Expanding the possibilities, a small construction materials department was created and began to experiment with membrane roofing systems. During its infancy (1951-1961), no one could have predicted the success elastomeric sheeting would have in the commercial and industrial roofing market segment. Forty years later and known industry-wide as the pioneer of EPDM membrane roofing systems, Carlisle SynTec Incorporated has a track record like no other supplier — eight billion square feet of membrane sold and more than 200,000 warranted projects.

In independent surveys of building owners and managers, Carlisle ranks highest in such key areas as product quality, technology implementation, and relationships with customers and suppliers. While it is gratifying to receive such positive feedback, the emphasis remains on our commitment to constantly monitor and improve upon our existing roofing systems, develop innovative roof products, and continually focus on improving customer services. This commitment has included product line extensions in both

our EPDM- and TPO-based systems, the implementation of an Enterprise Resource Planning software package (ERP) to fully integrate all facets of our organization, and the development of an industry-leading interactive website ([carlisle-syntec.com](http://carlisle-syntec.com)) to name just a few.

A major investment by Carlisle in recent years has been the construction of a dedicated TPO heat weldable membrane manufacturing facility located in Senatobia, Mississippi.

Carlisle's TPO Sure-Weld membrane has experienced extraordinary acceptance in the marketplace and resulting strong sales. While Carlisle's established single-ply technical infrastructure has supported this growth, there are three primary physical attributes of Sure-Weld TPO that have fueled its phenomenal market share gains:

- Width
- Thickness
- Environmentally Sensitive

These three product design attributes, available now with Carlisle's Sure-Weld TPO, exemplify our investment in the future for our owners and contractors. As it has done for 40 years in the single-ply industry, Carlisle SynTec is setting new standards within the thermoplastic, heat-welded market, both for today and tomorrow.





# WITH CARLISLE'S SURE-WELD **WIDER IS BETTER**

## **Carlisle's 8'-, 10'- and 12'-wide sheets reduce seaming costs.**

While competitors continue to manufacture heat-weldable membrane sheets 6'-wide or less, Carlisle's wider TPO sheets mean fewer seams to weld and less material required for installations. Sure-Weld membranes, in 8'-, 10'- and 12'-widths decrease installation time and result in less membrane loss under welded seams. Applicators save labor and time, and owners realize cost savings. Wider is Better.

## **Sure-Weld's wider sheets offer other advantages to applicators and owners.**

- Carlisle's Sure-Weld wider sheets minimize labor costs since fewer components are required to install the roof. Wider sheets mean fewer fasteners, less seams, less roll handling, and fewer potential problems. Saving building owners money and conserving applicators time and materials is another reason why Wider is Better.



The Patriot News, Harrisburg, Pennsylvania

▲ **Lift To Remove** ▲



# WITH CARLISLE'S SURE-WELD **THICKER IS BETTER**

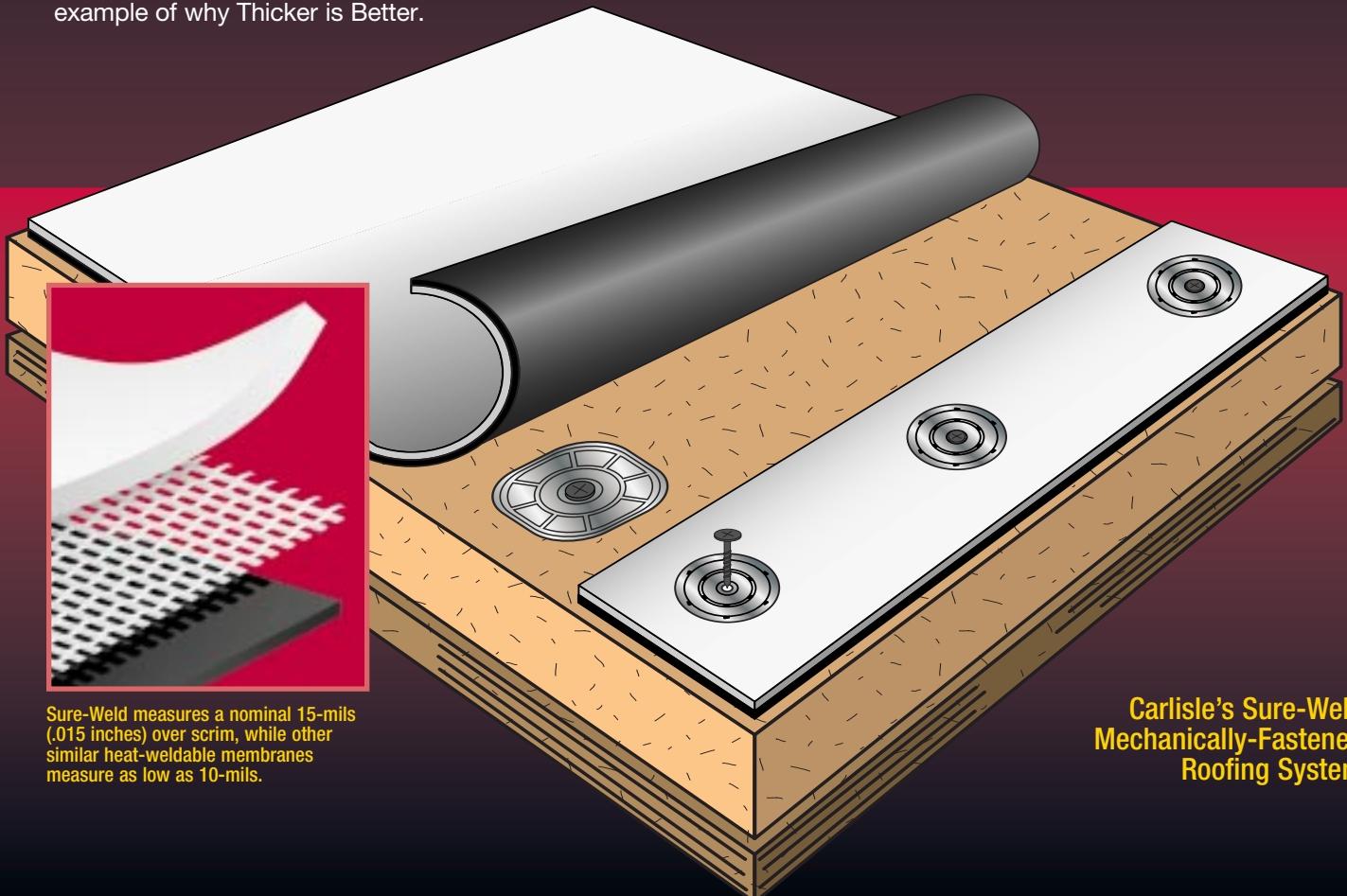
## **Carlisle's Sure-Weld membrane has the thickest top ply over scrim in the industry.**

Sure-Weld 45- and 60-mil standard membrane consists of three layers: a TPO polymer base; a strong, polyester reinforced fabric center (scrim); and a tough thermoplastic polyolefin (TPO) compounded top ply. Recognizing the top ply as the most vital membrane component for long-term weathering characteristics, Sure-Weld measures a nominal 15-mils (.015 inches) over scrim, while other heat-weldable membranes can measure as low as 10-mils. Thicker translates into Better.

## **Sure-Weld's thicker membrane is superior for these reasons:**

- With Sure-Weld, the extra thickness over scrim offers additional protection against rooftop traffic and migratory debris. The top ply, in combination with Sure-Weld's strong scrim and tough bottom ply, creates a sheet that outperforms other membranes in the market. When physical properties were tested, including the all-important "puncture" test, Sure-Weld surpassed other heat-weldable membranes currently offered in the marketplace. An example of why Thicker is Better.

- By providing a nominal 15-mils top ply thickness over scrim, Sure-Weld offers a smooth surface that resists dirt and debris pick-up and microbial attack. As a result, the membrane maintains a clean appearance and high reflectivity values throughout its life cycle. The added thickness over scrim again proves to be one of the most vital components of the product. Thicker is Better.
- Carlisle's manufacturing specifications, mandating a 15-mil (nominal) top ply coating thickness, equates to application ease — affording smooth, uninterrupted welding for roofing contractors. Total surface fusion welds create monolithic roof assemblies in which the seams themselves are actually stronger than the field membrane.
- Sure-Weld's thicker top ply provides outstanding long term ultraviolet and ozone resistance, particularly in the Sunbelt and western markets.



Sure-Weld measures a nominal 15-mils (.015 inches) over scrim, while other similar heat-weldable membranes measure as low as 10-mils.

**Carlisle's Sure-Weld  
Mechanically-Fastened  
Roofing System**



# WITH CARLISLE'S SURE-WELD COOLER IS BETTER

## **Carlisle's Sure-Weld membrane is an ENERGY STAR partner.**

Sure-Weld carries the EPA/DOE ENERGY STAR rating and label meeting and/or exceeding the program's energy efficiency guidelines. Because maintaining this high reflectivity is so vital to our long term sheet performance, Sure-Weld contains no ingredients that promote the growth of mildew, bacteria or algae that may cause defacement. Further, being produced without plasticizers or chlorinated ingredients addresses the environmental issues that are a concern today. The membrane remains reflective, clean and cool. Cooler is Better.

## **Everyone can benefit from cooler, reflective Sure-Weld membrane:**

- Available in white, tan or gray, Sure-Weld's clean surface reflects the sun's heat conserving energy required to operate HVAC cooling units for buildings. Air conditioning equipment may even be able to be downsized, since the roof itself will not contribute to the heat gain of the building. Cooler means Better.
- Because ENERGY STAR-labeled Sure-Weld membrane helps lower surrounding air temperatures by reflecting the sun's heat off roofs, it directly contributes to reducing the "urban heat island effect." This reduction in surrounding air temperature will help lower the demands placed on HVAC systems thus reducing energy consumption; supporting a

cleaner, cooler surrounding environment; and lowering cost. Cooler is Better for everyone.

Carlisle's reflectivity ratings are so good, and our confidence in their long term benefits so complete, that Carlisle is the only heat-weldable membrane manufacturer in the market today offering a Reflectivity Warranty. We guarantee that our Sure-Weld membrane will continue to meet the ENERGY STAR program reflectivity requirements for the specified length of the warranty.



Fleet Bank Headquarters, Lincoln, Rhode Island



Showplace, High Point, North Carolina



Spencer Theater, Alto, New Mexico

# **SURE-WELD** **EXTRA 72- & 80-MIL**



The Air Canada Center, Toronto, Canada



Mattel Distribution Center, Fort Worth, Texas

Because we all know that thicker is better and because so many roofers and specifiers have been looking for an alternative to PVC, Carlisle SynTec has developed new, thicker Sure-Weld EXTRA TPO membranes. Not only can Sure-Weld EXTRA membranes be used in traditional PVC project arenas, they can also be utilized on projects that demand extra protection from weathering elements or potential rooftop abuse. Schools, manufacturing facilities, retail operations and institutions can benefit from the securities of heavier gauge, heat weldable membranes. And, Carlisle is the first manufacturer to offer a TPO product with TPO inherent benefits in both 72- and 80-mil thicknesses.

### **Sure-Weld EXTRA:**

- 8-, 10- and 12'-widths increase rooftop installation productivity.
- 72- and 80-mil thicknesses improve puncture resistance and enhance weatherability and durability.
- produced without the use of any chlorinated ingredients or plasticizers to address environmental issues and concerns.

- manufactured in white, gray and tan, membranes are highly reflective and help to reduce energy consumption costs and carry the EPA/DOE ENERGY STAR® rating and label.
- Carlisle's membranes are up to twice as wide as competitor's 6' PVC sheets, therefore labor- and material-savings are immediately realized.
- Roofing Systems can be warranted up to 20-years with Carlisle's Golden Seal Total System Warranty AND Carlisle offers an exclusive Sure-Weld EXTRA Puncture and Reflectivity Warranty.

Carlisle SynTec Incorporated offers you a complete TPO single-ply roofing systems package, from insulation and accessories to inspections and warranties. And because we are constantly researching and developing innovations to ensure our systems and products meet your every expectation, we are regarded as the industry leader. Partnering with Carlisle assures system performance, longevity and product durability. Only Carlisle can offer 40-years of experience, credibility and reliability in the single-ply market.

**For complete specifications, details,  
promotional materials and case studies,  
log on to: [www.carlisle-syntec.com](http://www.carlisle-syntec.com)**



**ROOFING AMERICA FOR OVER 40 YEARS™**

**800-4-SYNTec**  
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