

**Sure-White<sup>®</sup> EPDM**  
Roofing Systems



**White EPDM Roofing Systems**

Reflective • Efficient Installation • Proven Performance

## Sure-White EPDM Roofing Systems

Highly reflective and monolithic pleasing, Carlisle's Sure-White membrane is the only white EPDM membrane with 35 years of proven field experience. Specially developed for Carlisle's fully adhered systems, the membrane offers superior performance including greater durability and puncture resistance. Environmentally friendly, the Sure-White roofing system can withstand enhanced wind uplifts and long-term weathering.

### HISTORY OF CARLISLE

60 years ago, Carlisle pioneered single-ply roofing. Today, more than 17.5 billion square feet of membrane have been sold and installed. No other manufacturer has a comparable track record. EPDM's success is due to its many exceptional characteristics, including material longevity, weatherability and elasticity.

Non-reinforced membranes feature a full 60- or 90-mil thickness of weathering material with no internal scrim.

Sure-White EPDM non-reinforced membrane is available in 60-mil and 90-mil thicknesses, can be ordered in widths up to 20' (6m).

### COOL ROOF RATED

Sure-White membranes are Cool Roof Rating Council-qualified, environmentally friendly and LEED® approved. Carlisle recommends using an Energy Savings Calculator to determine if a white reflective roof will save or cost you money compared to a dark-colored roof depending on geographic climate conditions, building location, and other variables.

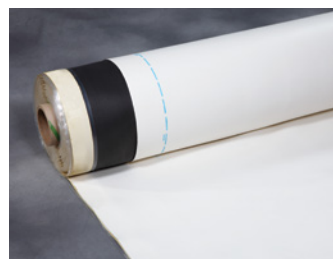
Caution: A heating penalty is associated with white roofs in central and northern climates and may be more prone to condensation accumulation.

### SAVE TIME AND MONEY WITH FAT™ TECHNOLOGY

Installing a Sure-White EPDM roof system is easier and more efficient Carlisle's innovations: Self-Adhered Technology (SAT™) and Factory-Applied Tape (FAT). SAT membrane is up to 4.5 times faster to install than field applied bonding adhesive and features time tested and proven Factory-Applied Tape. FAT reduces the time to complete a water-tight seam by up to 70% and has proven to be very user friendly and reliable.

### INCREASE PRODUCTIVITY AND IMPROVE APPEARANCE WITH PRESSURE-SENSITIVE ACCESSORIES

The most time-consuming portion of a Sure-White installation is faster and easier with Carlisle's Pressure-Sensitive Elastoform Flashing, a self-curing material that resists cracking and is easily formable around different shapes. Sure-White Pressure-Sensitive Walkway Pads are made with EPDM rubber to provide excellent traction and protection to high traffic areas. As with its Sure-Seal® and Sure-Tough™ EPDM roof systems, Carlisle also offers its complete line of pressure-sensitive accessories for the Sure-White system, including pipe seals, curb wraps, and cured cover strips.





## FEATURES AND BENEFITS

- » 35 years of proven performance
- » Industry leading UV resistance of 25,200 kJ/m<sup>2</sup> for white membranes
- » Reduces air conditioning costs
- » 540% elongation results in superior hail resistance
- » Lowest global warming potential, acid rain and smog impact according to a study using EPA's TRACI model
- » SAT and FleeceBACK options available
- » Zero (no growth) rating for fungal growth

## Non-reinforced Typical Properties and Characteristics

Property (Metric-SI Units)	Test Method	Specifications	Typical Properties
<b>Tolerance on Nominal Thickness, %</b>	ASTM D412	±10	±10
<b>Tensile Strength, min, psi (MPa)</b>	ASTM D412	1305 (9)	1465 (10.1)
<b>Elongation, Ultimate, min, %</b>	ASTM D412	300	480
<b>Tearing Strength, min., lbf (kN/m)</b>	ASTM D624 (Die C)	150 (26.3)	200 (35)
<b>Factory Seam Strength, minimum</b>	ASTM D816 Modified	Membrane Rupture	Membrane Rupture
<b>Brittleness Point, max deg. °F (deg. °C)</b>	ASTM D746	-49 (-45)	-67 (-55)
<b>Resistance to Heat Aging*</b> Sure-White aged 1 wk @ 240°F (116°C)	ASTM D573		
Tensile Strength, min, psi (mpa)	ASTM D412	1205 (8.3)	1345 (9.3)
Elongation, Ultimate, min. %	ASTM D412	200	280
Tear Strength, min, lbf/in. (kN/m)	ASTM D624 Die C	125 (21.9)	185 (32.4)
Linear Dimensional Change, max, %	ASTM D1204	±1.0	-0.5
<b>Ozone Resistance*</b> Condition after exposure to 100 pphm Ozone in air for 168 hours @ 104°F (40°C) Specimen wrapped around 3" mandrel	ASTM D1149	No Cracks	No Cracks
<b>Resistance to Water Absorption*</b> After 7 days immersion @ 158°F (70°C) Change in mass, max, %	ASTM D471	+8 -2*	+3.6*
<b>Water Vapor Permeance*</b> Maximum, perms	ASTM E 96 (Proc. B or BW)	0.10	0.05
<b>Resistance to Outdoor (Ultraviolet) Weathering*</b> Xenon-Arc, total radiant exposure at 0.70 W/m <sup>2</sup> irradiance, 80°C black panel temperature	ASTM D4637 Conditions	No Cracks No Cracking 7,560 kJ/m <sup>2</sup>	No Cracks No Cracking 25,200 kJ/m <sup>2</sup>

\* Not a Quality Control Test due to the time required for the test or the complexity of the test. However, all tests are run on a statistical basis to ensure overall long-term performance of the sheeting.

<sup>1</sup> Approximately equivalent to 3000 hours exposure at 158°F black panel temperature, using xenon-arc apparatus operated at .07 W/m<sup>2</sup> irradiance.

## WARRANTY

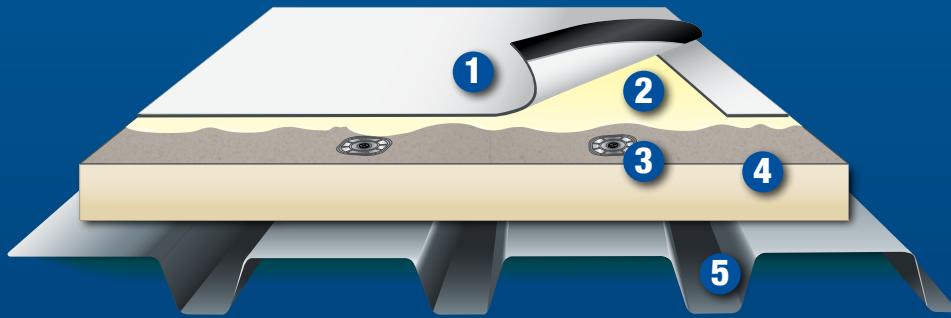
This adhered system, when properly installed and inspected on a commercial project, may receive:

- » A 10-, 15-, 20-, 25- or 30-year Golden Seal Total System Warranty may be requested when all materials used for the roofing installation are manufactured or marketed by Carlisle.
- » A maximum peak gust wind speed coverage of 55 miles per hour is standard. Additional coverage up to 120 mph is available.

Consult your Carlisle authorized applicator or manufacturer's representative/distributor for associated warranty changes and the full text of sample warranties



## EXPERIENCE THE CARLISLE DIFFERENCE



### MEMBRANE OPTIONS

Color: White

Thickness (mils): 60 and 90

Standard width: 10', 16½' and 20'

Standard length: 100'

### TYPICAL APPLICATION

1. Sure-White EPDM membrane with FAT
2. Carlisle bonding adhesive
3. Carlisle fasteners and plates
4. Carlisle insulation
5. Approved roof deck

## SURE-WHITE EPDM ROOFING SYSTEMS

- » Carlisle manufactures all major components of the roofing system
  - Including Low VOC Bonding Adhesive, splice tapes, and splice primers
- » EPDM is dimensionally stable in both hot and cold climates and rubber provides greater slip resistance
- » FAT Seam Technology and Pressure-Sensitive Flashing enhance workmanship quality
- » 60-mil and 90-mil available in 10' widths
- » 60-mil also available in 16.5' and 20' widths
- » SAT and FleeceBACK membrane options available
- » Cool Roof Rating Council rated to reduce air conditioning costs in southern climates and can earn a LEED point for urban heat island mitigation. Caution: A heating penalty typically outweighs the cooling benefit in heating dominated central and northern climates
- » Warranties up to 25 years with 60-mil and up to 30 years with 90-mil non-reinforced membranes
- » Excellent protection from hail damage
- » Full 60- or 90-mil thickness of weathering material with no internal scrim
- » Membrane longevity and ease of detailing are ideal for rooftop solar applications



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