

# Carlisle EPDM

ENERGY EFFICIENT AND SUSTAINABLE

Sustainable roofing isn't about color, it's about performance, which is why Carlisle SynTec offers the most diverse and versatile line of EPDM membranes on the market. When you need an energy-efficient and sustainable roof system, look no further than the single-ply membrane with nearly a half-century track record of performance and durability...Carlisle EPDM.

## Heating Reduction is the Key to Energy Savings in Cool Climates

In central and northern states, heating accounts for a significantly larger percentage of total-building energy consumption than air conditioning. So, reducing heating consumption is more critical to energy savings than reducing air conditioning usage, especially in cooler climates where heating degree days (HDD) outnumber cooling degree days (CDD).

## Dark-Colored Membranes Outperform White in Cool Climates

Because they attract and collect more heat, dark-colored roofing materials such as Carlisle's Sure-Seal® and Sure-Tough® EPDM help building owners save more energy in cooler climates by reducing a building's overall heating demand. Black roofs also create fewer carbon emissions than white roofs in these cooler climates because of the reduced heating demand they create.

Of course, insulation is the key to any energy-efficient roof system, regardless of membrane color. A properly insulated rooftop virtually negates membrane color in regards to energy consumption.

## That Leak Doesn't Always Mean there's a Hole in Your Roof

In cooler climates, reflective roofing materials may not get warm enough during the day, which can promote moisture accumulation within certain roof assemblies. What appears to be a faulty roofing material may actually be condensation forming inside your building.

A combination of Carlisle's EPDM and properly designed and installed insulation can help counteract the forces that lead to condensation-related leakage.

## Innovation is the Key to Sustainability and Performance

Carlisle offers a number of innovative products that are proven to increase the long-term sustainability and performance of its EPDM roof systems. From its patented Factory-Applied Tape (FAT™) seam technology to its prefabricated, pressure-sensitive accessories, Carlisle has every detail covered. These revolutionary products help reduce the risk of rooftop failures and increase roof system sustainability by virtually eliminating the potential for human error during installation. For warmer climates where reflective roofing is beneficial, Carlisle offers its Sure-White EPDM roof systems. Sure-White membrane features over 20 years of in-the-field performance and is the industry's only ENERGY STAR-certified EPDM membrane.

### ENERGY End-Use Intensities

Building Type	Space Heating % of total	Space Cooling % of total
Education	33%	5%
Health Care	55%	10%
Retail & Service	31%	6%
Office	24%	9%
Public Assembly	54%	6%
Warehouse & Storage	16%	1%
All Buildings	29%	6%

Buildings Energy Data Book: 714 Typical Commercial Buildings September 2007

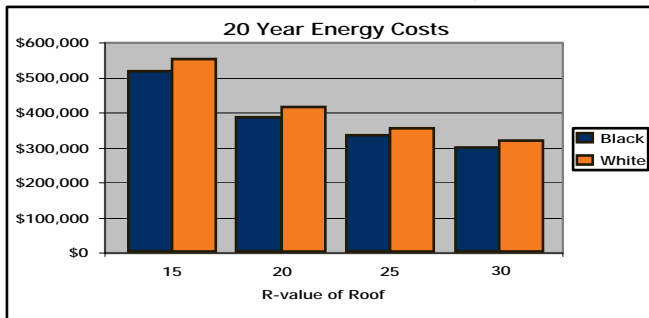


## The Proof is in the Numbers

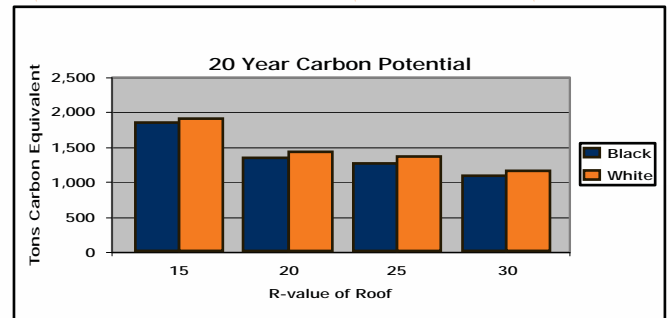
Carlisle's EPDM can help you save more money on your energy costs in a variety of locations.

# Chicago, IL

### ENERGY COST COMPARISON

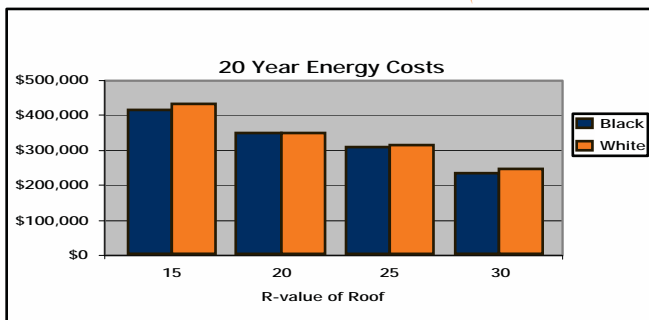


### CARBON POTENTIAL COMPARISON

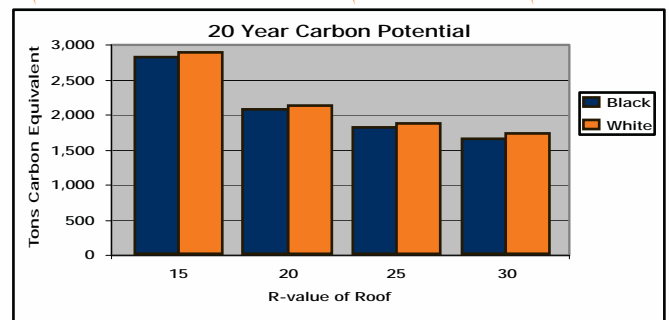


# Albuquerque, NM

### ENERGY COST COMPARISON



### CARBON POTENTIAL COMPARISON



For a comprehensive lifecycle analysis that will show you how Carlisle's EPDM can help you optimize energy efficiency and lower your building's carbon emissions, call 866.386.7454 or email [buildingownerservices@syntec.carlisle.com](mailto:buildingownerservices@syntec.carlisle.com).

*Investing in Roofing Solutions for Over 45 Years*

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