



WHITE
GREEN

Duro-Last® Sustainable
Roofing Systems

PROTECT YOUR ROOF, YOUR BOTTOM LINE AND THE ENVIRONMENT

 **DURO-LAST**
THE WORLD'S BEST ROOF®

A Sustainable Choice for Your Building



Across the world, extreme weather and prolonged heat waves are setting – and breaking – records. Worse, the localized urban heat island (UHI) effect has caused the annual average temperature in a city of a million people to increase between 1.8°F and 5.4°F, according to the U.S. Environmental Protection Agency. This number can jump to as high as 22°F warmer in the evening hours.¹ Understandably, this has driven a growing

demand for cooling technology.

Cooling is now the fastest growing use of energy in buildings, and ACs and electric fans already account for about 10% of all global electricity consumption. This is one of the most critical blind spots in the energy world today – by 2050, cooling demand could more than triple.² While greater access to much needed cooling services is a good thing, it places a major strain on our energy infrastructure.

A building's envelope – the parts of a building that form the primary thermal barrier between interior and exterior – plays a key role in how much energy is required to heat and cool a building.



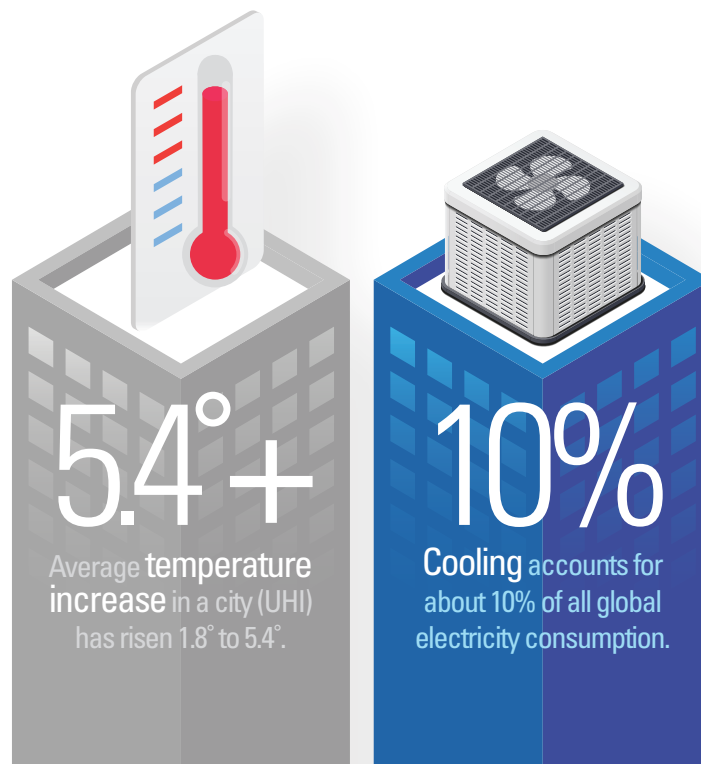
¹ U.S. Green Building Council, "Cool Roofing for Cool Climates."

² International Energy Agency, "The Future of Cooling."



Of particular concern are dark-colored roofs, especially in urban environments. As Lawrence Berkeley National Laboratory researchers report in a 2013 paper, *Economic comparison of white, green, and black flat roofs in the United States*: “the sunlight that is absorbed heats the roof, which increases cooling costs in air-conditioned buildings, increases discomfort in unconditioned buildings, increases mortality during heat waves and pollutes local and regional air.”

Fortunately, there are ways to successfully mitigate escalating rooftop heat, directly impacting UHI levels. By selecting Duro-Last® light-color membranes in place of dark roofing, you can significantly decrease your building’s UHI impact and increase the reflectivity of sunlight, reducing heat within the building and cutting down on energy demand.



Why Choose Duro-Last?

In addition to the labor savings offered by the custom-fabricated Duro-Last membrane, our highly reflective roofing systems provide excellent energy-saving opportunities. Additionally, Duro-Last's commitment to sustainable manufacturing practices and products ensures that the environmental impact of a Duro-Last Roofing System is minimal, from production through the end of its useful life.





DURO-LAST'S FLAGSHIP BRIGHT WHITE MEMBRANE OFFERS UP TO 88% REFLECTIVITY,

enhancing the overall reflective properties of the building and driving down energy consumption – making Duro-Last the ideal cool roof option. With a total solar emittance of up to 87%, the ENERGY STAR® qualified Duro-Last membrane also releases energy and heat efficiently.

OUR MEMBRANES CAN BE INSTALLED OVER A VARIETY OF SUBSTRATES,

transforming non-reflective roofs into energy-saving reflective roofs with no disruption to operations below.

OVER FOUR DECADES OF PROVEN PERFORMANCE

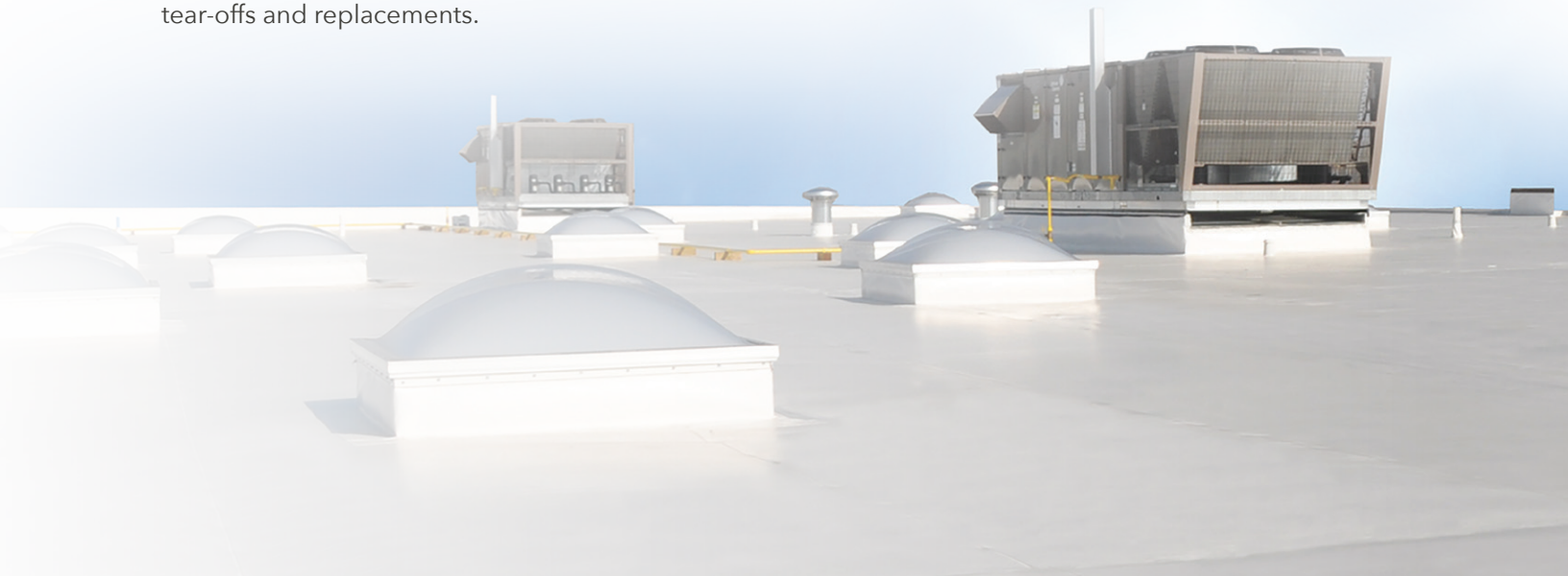
means that Duro-Last Roofing Systems are designed to provide superior protection for your building, vastly reducing the need for costly roof tear-offs and replacements.

DURO-LAST PVC ROOFING SYSTEMS ARE RECYCLABLE.

Mechanically attached Duro-Last Roofing Systems can be repurposed at the end of their useful life through our Recycle Your Roof Program, eliminating landfill waste.

HVAC UNITS HAVE A SMALLER "DEGREE DIFFERENCE"

of the air they need to cool because the ambient temperature on reflective white roofs is lower than on dark-colored roof surfaces. This decreases the cooling load, as well as unit wear and corresponding maintenance costs. In some cases, a reflective roof may enable the use of smaller, lower-cost HVAC units.





For more information give us a call
or visit our website today.

800-248-0280

duro-last.com/sustainability

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