

Solar Energy Compatible

IB offers solar ready and solar compatible roof systems that have the field performance to match the required service life of the PV system.

IB membrane supports roof solar energy generation. By partnering with experts in the solar energy field, IB Roof Systems can provide long-term waterproofing solutions already proven for 30 years and which are designed to last as long as the solar panels are warranted. Roofing systems not proven may not perform as long and cause a costly removal and re-install of the solar system and new roofing material, possibly erasing any savings that the solar system provided.

Rooftop Mounted Solar

- Promote environmental stewardship
- Reduce carbon emissions
- Allow for energy independence

Integrating durable IB Roof Systems membrane with solar roof projects is another way **IB Roof Systems can enhance your roof's sustainability.**

Garden Roofs

Mother Nature's Roofing Solution

Garden roofs offer wonderful long-term benefits to the building and the environment. To create these mini eco-systems on a rooftop requires a significant investment; therefore, it is vital to the success of the rooftop garden that a proven, durable waterproofing system be put in place. IB Roof Systems have been used successfully for many years as the waterproofing membrane of choice for garden roofs. IB Roof Systems membranes are:

- Highly resistant to solid root penetration
- Handle constant or ponding moisture
- Resistant to high PH or acidic soil conditions
- Proven performance for over 30 years

IB Roof Systems membrane maximizes the life of a roof-top garden and is another way... **IB Roof Systems can enhance your roof's sustainability.**

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LEED VERSION 4

ENERGY and ATMOSPHERE

IB's Cool Roof membranes, Energy Boards, and a Solar Array system can contribute to multiple points in LEED's Energy & Atmosphere category. This is accomplished by helping optimize energy performance and the use of renewable and clean sources of energy, generated on-site. Below are the sections where IB Roof Systems products can help you achieve points towards LEED certification:

Energy and Atmosphere Credit (Renewable Energy Production)

A Solar Array can reduce the need for fossil fuel energy use contributing to the possible 3 points

MATERIALS AND RESOURCES

IB Roof Systems Cool Roof membranes and a Roof Recycling Program can be used to obtain multiple points in LEED's Materials and Resources category. A mechanically attached vinyl roof at the end of its useful life can be recycled into new roofing membrane products and replaced with a roof membrane that is made with pre and post-consumer recycled waste. Below are the sections where IB Roof Systems can help with points towards LEED certification:

BUILDING PRODUCT DISCLOSURE AND OPTIMIZATION CREDIT

Materials and Resources Credit: Construction and Demolition Waste Management A roof recycling program contributes to the possible 2 points (one point is for Exemplary Performance under the Innovation in Design Credits Section).

ENVIRONMENTAL QUALITY

IB Roof Systems Roofing's Low or No VOC emitting roof membrane adhesives can be used to obtain points in LEED's Environmental Quality category. Low-Emitting Materials IB Roof Systems Low or No VOC emitting roofing adhesives and coatings solutions that can be used to obtain 3 points by not contributing to possible fumes and/or odor during building construction

SUSTAINABLE SITES CREDITS

- **Site Development:** Protect or Restore Habitat

A Vegetative Roof assembly contributes to the possible 2 points.

- **Site Development:** Maximize Open Space

A Vegetative Roof assembly contributes to the possible 1 points.

- **Rainwater Management**

A Vegetative Roof assembly contributes to the 3 points.

- **Heat Island Reduction**

An IB Cool Roof or a Vegetative Roof assembly can obtain up to 2 points.

- **Places of Respite**

Installing a Vegetative Roof assembly contributes to the attainment of 1 point.



Scan IB Carbon Roof Recovery Calculator



Scan IB Energy & Carbon Calculator



Shaping a Greener Industry



The Industry's Best PVC Membrane Provides Enhanced Sustainability Through

Longevity + Reflectivity = Resiliency



IB Roof Systems has been an environmentally conscious company since its beginning in the late 1970s before “sustainability” was a household term. Since its inception, IB Roof Systems has promoted its products to be:

- ✓ **Long-Lasting** – nearly three times that of traditional asphalt roofing systems
- ✓ **Highly Recyclable** – recycled and even upcycled after 30 years of useful life, avoiding the landfill altogether
- ✓ **Highly Reflective** – reducing energy consumption and utility costs
- ✓ **Safe** – formulated with enhanced fire-retardant properties

Longevity

IB Roof Systems is proud to have a **30+ year track record** of some of the longest-lasting sustainable roofing membranes in the industry, from coast to coast. This is the first step to enhanced sustainability. Other roof system types do not have an equivalent life cycle history and in some cases must be replaced 2 or 3 times sooner than an IB PVC membrane and often cannot be recycled or reclaimed. Which means they add to the landfill problem.

Avoiding the landfill altogether is a key point in longevity. IB Roof Systems roofing membranes are the best choice for long-term Performance.

Providing a long-lasting membrane is another way **IB Roof Systems can enhance your roof's sustainability.**

Resiliency

If longevity is key to Sustainability, then Resiliency is the key to longevity. When we consider all the benefits of an IB Roof System's reflective membrane there is no doubt that our membranes are resilient in performance and their ability to provide durability both in top weathering surface, resistance to ponding water, as well as compatible with so many other environmental friendly initiatives. IB Roof Systems membranes are:

- Durable weathering surface is up to 250% thicker than ASTM standard for PVC membranes
- Superior weldability – balanced top and bottom layer thickness for ideal welding
- Minimal Maintenance Membrane
- Highest Quality PVC
- Extreme Weather Resistance – coast to coast
- Superior Fire Resistance – PVC will not support a flame
- Longest Industry Warranties

Proven performance and environmentally sound before “sustainability” became a household term.

IB Roof Systems membrane provide lasting protection through longevity and the resiliency of its proven formulation... another way **IB Roof Systems can enhance your roof's sustainability.**

IB is Roofing Sustainability

Lifecycle is Key to Sustainability
“You have to think about durability – using high-efficiency roofs without known longevity is a tad foolish. Replacing systems that fail prematurely doesn't do a lot of good for the environment.”

Craig Silvertooth,
 President of the Center for Environmental Innovation in Roofing



Accountability of one's Carbon Footprint

Reflectivity

Long-Term High Reflectivity = Cooler Roofs and a Cooler Planet An IB reflective roof membrane can reflect up to 90% of the solar heat load that normally heats and enters a building through the roof. This translates into savings by reducing energy costs. IB Roof Systems White, Cool Sand, and Cool Stone membranes are third-party tested and verified to meet or exceed EnergyStar, California Title 24, and Cool Roof Rating Council (CRRC) – Cool Reflective Roof Standards. We earned one of the highest ratings for reflectivity and emissivity.

IB Roof Systems applies a top finish to all their membranes to help keep them cleaner longer, increasing their reflective properties, reducing energy consumption, and reducing the urban heat island effect. Because of the high reflective life of IB Roof Systems membrane, there are considerable energy cost-saving benefits, lowering energy consumption and the utility bill.

Maintaining long-term high reflectivity is another way **IB Roof Systems can enhance your roof's sustainability.**

Reclamation A Legacy that goes on and on...

It's one thing to say that a roofing product can be recycled and another to have one currently being upcycled.

IB Roof Systems is proud to have some of the longest-lasting sustainable roofing membranes in the industry, with an incredible track record to back it up. They are also proud to start reclaiming and recycling those same roofs after their long useful life is over.

After 30 years of outstanding performance, IB Roof Systems reflective membranes are being upcycled into other high-quality products avoiding the landfill altogether.

Jeff Walter from Northwest Polymers, a plastics recycling company, stated, “From what we have seen so far in processing the aged PVC membrane material, there is very little waste. As it passes through our system, we recognize about 99.5% of good, usable materials.” He also said further that “one of the good things about vinyl and plastics is that they last for such a long time. The material is still very usable, degradation is minimal, and because of this, it can still be made into good products even when it has already served for 30 years.”

Reclaiming used roofing membrane is another way... **IB Roof Systems can enhance your roof's sustainability.**

Carbon Neutrality?

Carbon neutral means that any CO2 released into the atmosphere from a company's product production or product use is balanced by an equivalent amount of CO2 being removed through the atmosphere.

What is Carbon Negative?
 Carbon negative means that the amount of CO2 removed or saved is greater than the embodied carbon to manufacture and install the product and CO2 that may continue to be released into the atmosphere from product.

Some roofing products are great at saving energy and may even be recyclable, but they will never become carbon neutral due to their embodied carbon to manufacture, install and short life span of the product.

IB PVC Single Ply The first Carbon Neutral roofing membrane 3rd party documented

In conjunction with studies from the DOE, EPA, CFFA, and third-party formula and calculation validation, IB shows that the cradle-to-building with end-of-life (EOL) stage of the membrane encompasses the total embodied carbon of the raw material extraction, production, transportation to the jobsite, membrane installation and ultimate end-of life removal. This calculation can demonstrate that an IB Roof Systems reflective membrane installation would be neutralized way before its warranted life is over. This will leave the owner with the remaining useful life of the roof, carbon-free.

IB is the leader in environmental Single-Ply Roofing
 Stewardship of the environment is about more than just manufacturing carbon reducing products – it's about **accountability of one's carbon footprint.** That's why IB Roof Systems has made it a high priority to produce the first carbon neutral product that can be documented to achieve carbon neutrality or carbon negative within its warranted period. Instead of simply relying on the merits of its product alone for environmental performance we show environmental accountability by creating more innovative, environmentally friendly products. Another way IB Roof Systems is the roofing manufacturer of choice for environmentally conscious contractors, building professionals and building owners that want to reduce their carbon footprint.

A carbon neutral membrane is another way **IB Roof Systems can enhance your roof's sustainability.**

When will your IB membrane be **Carbon Neutral?**



Scan to Find out on our IB Energy & Carbon Roof Recovery Calculator