

# PV Roofing: a smarter solution



## Two great companies, one great system

Firestone Building Products and SunPower®, two leaders in commercial-roofing solutions, have combined their excellence and experience. The result: photovoltaic (or “PV”) roofing that gives you the advantages of two great companies in one superior system. SunPower’s expertise in solar performance joins Firestone Building Products’ know-how in roofing materials. It’s an innovative way to get “green” results while maintaining confidence in traditional roofing requirements.

### The benefits of Firestone Building Products

- ISO 95+™ Polyiso Insulation offers high-energy efficiency which helps conserve fuel while heating and cooling the building
- A solid roofing substrate for the PV roofing system—along with the installation and maintenance of the system
- A solid waterproof substrate designed to maintain its watertight integrity while providing a solid substrate to receive a PV System
- Proven success in commercial roofing systems that endure beyond the expected lifecycle of the PV system
- The value of the Firestone Red Shield Warranty

### The advantages of SunPower

- The highest efficiency in solar-energy systems and technology
- Proven solar performance at more than 350 commercial sites
- Maximized solar-energy output and energy savings
- Turn-key systems integration
- Financing options—including power-purchase agreements

**Firestone**  
BUILDING PRODUCTS  
NOBODY COVERS YOU BETTER™

**SUNPOWER**  
Smarter Solar

# Firestone Quality

## Protecting the world in four easy steps

To take advantage of the benefits that come with the companies' PV roofing system, just contact your Firestone representative. Here's what happens next:

1. Assessment of roof space, electric bills and potential solar incentives
2. Evaluation and proposal via on-site audit to determine the condition of the roof and development of a design to maximize energy output and energy savings
3. Implementation—including preparation of the roof by a licensed Firestone contractor and installation of the SunPower system by authorized contractors
4. Your PV system is ready to start producing renewable energy



Firestone Building Products' alliance with SunPower helps make PV roofing a practical reality even for large-scale commercial projects.

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## A fitting combination, a shared dedication

For SunPower and Firestone Building Products, a partnership is a natural fit. Each company brings its particular strengths to the alliance. Even better, each contributes a shared dedication to the Earth's future.

### The Firestone commitment

Firestone Building Products' commitment is present in products and materials alike. It's also evident in cutting-edge research.

And it has long been apparent in the company's participation in programs such as LEED® (Leadership in Energy and Environmental Design) and the U.S. Green Building Council.

For Firestone, global success brings a global responsibility. As the alliance with SunPower proves, it also brings new kinds of opportunities.

### The SunPower standard

SunPower has more than 20 years of innovation and performance. The company's history includes service to residential, commercial and utility-scale power-plant customers.

SunPower's experience has resulted in solar cells and panels that deliver significantly more energy than those of competing companies.

With solar energy, SunPower has created new standards of efficiency and sustainability. And the company's partnership with Firestone Building Products is helping to raise those standards higher than ever.

## T10 SOLAR ROOF TILE

TILTED FOR HIGHER ENERGY OUTPUT

### BENEFITS

#### Optimized Energy Output

Higher energy delivery due to 10 degree tilt angle and sunlight reflectors

#### Non-Penetrating

Modular solar tiles are easy to install without mechanical roof attachments

#### Deploys Rapidly

Large-scale solar arrays can be installed efficiently and commissioned quickly

#### Integrates Seamlessly

Low-profile design blends into flat roof and flat ground sites, while operating within existing electrical network

#### Non-Obstructive

Solar panels won't interfere with roof operations or drainage

#### Highly Wind Resistant

Engineered for aerodynamic stability means no roof attachments in typical wind zones



**The SunPower® T10 Solar Roof Tile is pre-engineered to tilt at a 10-degree angle and enhance energy capture.**

These non-penetrating roof tiles interlock for secure, rapid installation. Made of durable, lightweight materials, the T10 tile's patented design resists high winds and corrosion, and is uniquely flexible to adapt to the size and requirements of virtually any flat rooftop and select ground sites.



Berlex - 274 kW - Wayne, New Jersey

### Specifications and Details (SPR-210)

Attribute	Specification
Array Weight	As low as 2.1 lbs/ft <sup>2</sup> (< 10.2 kg/m <sup>2</sup> )
Tile Slope	12.9 degrees
Roof Penetrations	None, except high-wind areas
Typical Power Output	.95 kWp/100 ft <sup>2</sup>
Deployment Options	Roof sites
High Wind Resistance	Up to 120 miles per hour
Access	Integrated walkways allow easy access to modules, equipment and roof surfaces
Warranty	Full system warranty



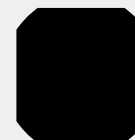
#### SunPower A-300 Solar Cell

T10 Solar Roof Tiles feature SunPower A-300 solar cells. One of the most advanced and efficient solar cells on the market, the A-300 is a combination of aesthetic design and smart technology.

#### Key Attributes:

- All-back-contact design reduces sun blockage for higher efficiency output up to 21.5%
- Uniform dark front gives velvety-black appearance
- 4 mm thick high transmission tempered glass enhances product stiffness and impact resistance
- Lower temperature coefficient enhances high temperature operation & energy output

Cell Front



Cell Rear



The SunPower T10 Solar Roof Tile technology is protected by US Patent Numbers 5,505,788 and 5,746,839. Other US and/or international patents issued or pending may apply.

#### About SunPower

SunPower designs, manufactures and delivers high-performance solar electric technology worldwide. Our high-efficiency solar cells generate up to 50 percent more power than conventional solar cells. Our high-performance solar panels, roof tiles and trackers deliver significantly more energy than competing systems.