



Beauty + Power
Without Compromise







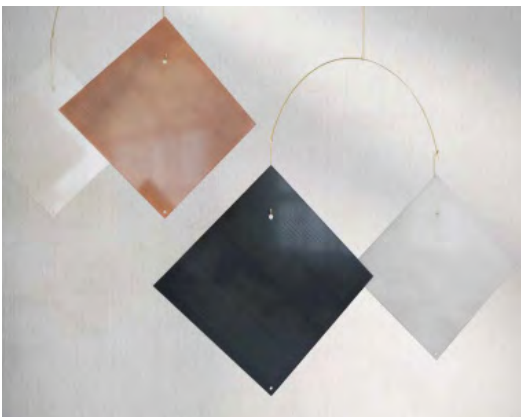
Inspired by the slate roofs of the Swiss Alpine region, SunStyle® created a beautiful, durable, fully integrated solar roof system that provides sustainable energy for your home or commercial building. Our proven system complements a wide variety of architectural styles and instead of compromising aesthetics, we improve them.



“At first glance, the roof just seems to be a roof and not a photovoltaic installation! We like this a lot!”

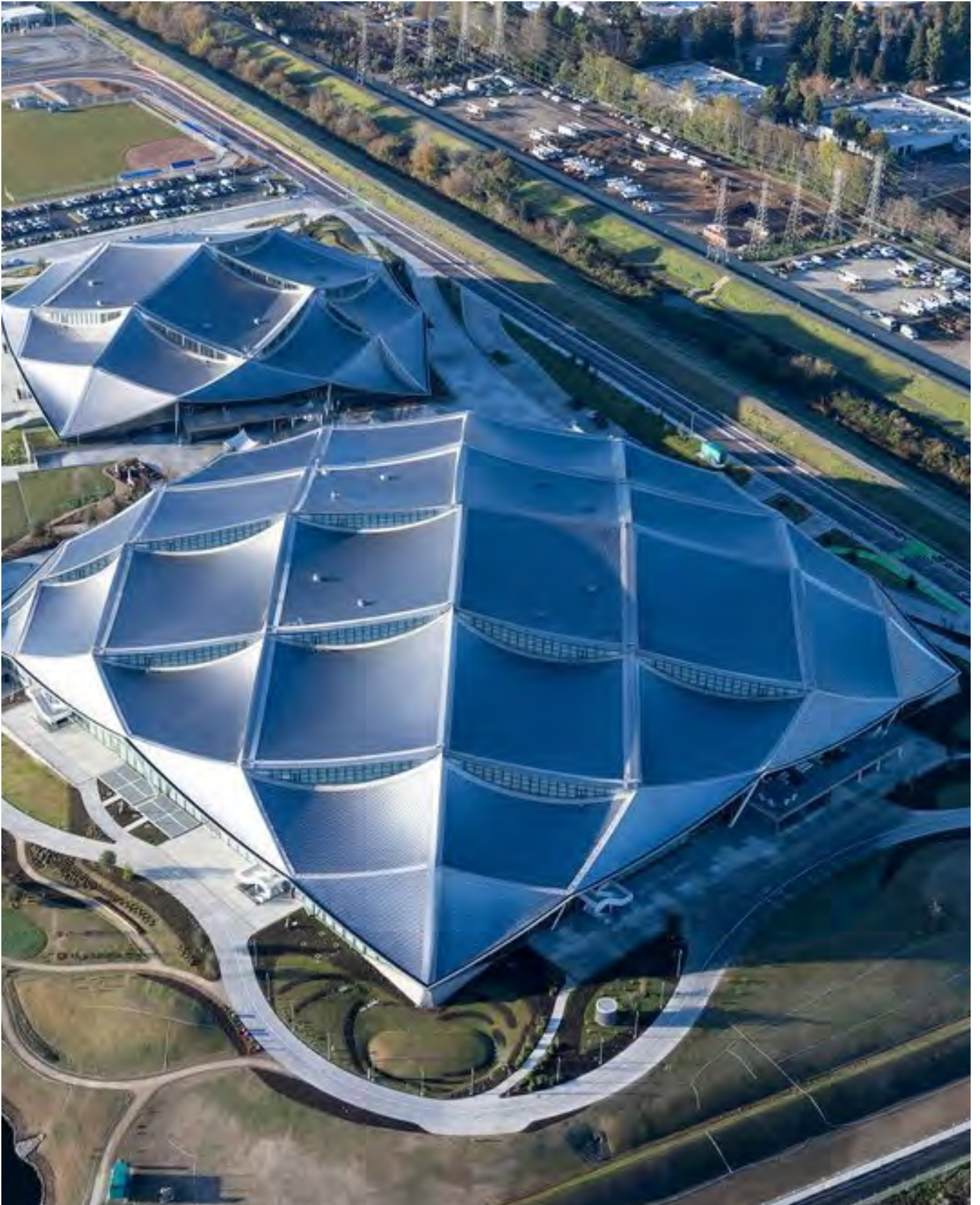
Sascha Schär, Architect

SunStyle tiles are constructed of tempered glass with interior-laminated photovoltaic cells. Our patented overlapping system ensures the roof is watertight. We offer smooth or textured glass and optional color-coating.

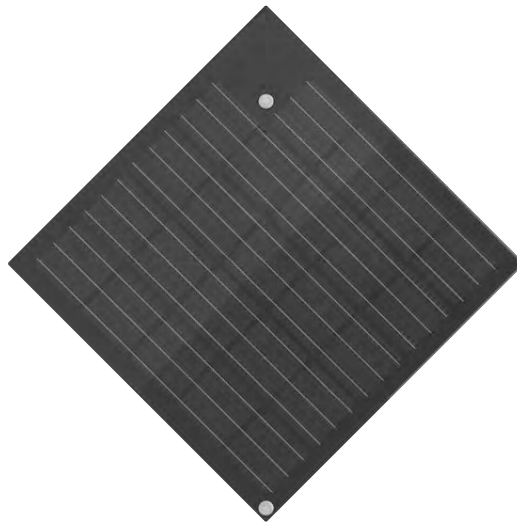


SunStyle Benefits	Classic Solar Panels
Uniform Aesthetic	Partial Roof Coverage
Smooth & Textured	Smooth
Color-coating Option	No Color-coating
Frameless	Metal-framed
Certified BAPV & BIPV	BAPV-only

SunStyle is certified to the highest UL Building & Construction standards for Fire, Wind Resistance, and Hail.







SunStyle Model **M110 870**

General Characteristics

Shingle Dimensions	34 1/4" x 34 1/4", 870 x 870 mm
Construction	Glass EVA Cells EVA Glass
Solar Cell Type	PERC Monocrystalline
Glass Thickness	3.2 mm (front) + 3.2 mm (back)
Glass Properties	Tempered Solar Glass
Weight	4.4 lbs/ft ² , 21.5 kg/m ²
Temperature Range	-40° F to +185°F
Junction Box	Renhe or TE Connectivity
Connection Cable	Solar Cable 4mm ²
Connection Cable Length	800mm
Connector	MC-4 or TE PV4-S
Frame Material	Frameless
Roof Pitch	2:12 to 16:12

Certifications

PV Module Safety	UL/IEC 61730-1, 61730-2
PV Module Performance	UL/IEC 61215-1, 61215-2
Building & Construction	UL 7103
Fire	UL 790 Class A
Impact	FM4473 Class 4
Wind Resistance	ASTM D3161 Class F
Wind-Driven Rain	TAS 100 (A)
Mechanical Loading	200 psf
Grounding	UL2703

Electrical Properties

Type of Shingle	BIPV & BAPV
Nominal Output	110 Wp per shingle
Efficiency	17%
Open Circuit Voltage Voc	16.1 V
Short Circuit Current Isc	9.2 A
Maximum System Voltage	1000 V DC
Maximum Fuse Rating	15 A

Electrical Performance at STC: 1000 W/m², 25° C, AM 1,5
Electrical Values (Isc, Voc) Tolerance : +/- 3%

Quality and Warranty

Product Guarantee	25 years
Performance Guarantee	10 years at 90% nominal output 25 years at 80% nominal output

Certifications Summary

Photovoltaic Module Safety & Performance

UL/IEC 61730-1, 61730-2

This code specifies and describes the fundamental construction requirements for photovoltaic (PV) modules in order to provide safe electrical and mechanical operation. Specific topics are provided to assess the prevention of electrical shock, fire hazards, and personal injury due to mechanical and environmental stresses.

UL/IEC 61215-1, 61215-2

This standard lays out requirements for design qualifications and type of PV modules that are suitable for long-term operation in general open air climates. This test sequence of UL/IECv61215 is to determine the electrical and thermal characteristics of the module and to show, as far as is possible within reasonable constraints of cost and time, that the module is capable of withstanding prolonged exposure in climates described in the scope.

Building & Construction (UL 7103)

Fire Classification - Class A

A roof fire protection is rated in UL790 as varying class: class C for light protection, B for moderate, and A for severe. SunStyle has met class A. Our roof assembly affords the highest level (severe) of fire protection. Key tests to provide fire classification of roof covering materials and systems are the Spread of Flame Test, Intermittent Flame Test, and Burning Brand Test.

Wind Resistance - ASTM D3161 Class F

To hold up to winds, a series of wind tests are performed in ASTM D3161, which is a two-hour test duration of wind hitting a roof with classes rated from A (for 60 mph) to D (for 90 mph) and F (for 110mph). SunStyle shingles passed Class F, the highest wind rating.

Hail (Ice Ball) - FM 4473 Class 4

Under UL 7103 this FM 4473 test standard is applied to roof covering materials with various size ice balls shot multiple times at the roof covering. SunStyle's Class 4 rating is the highest rating and requires shingles do not crack after repeated terminal velocity hits by a 2" ice ball. This impact class can help lower insurance rates for homeowners.

Wind-Driven Rain - TAS 100 (A)

TAS 100 (A) is a Testing Application Standard (TAS) where the test procedures determine whether a soffit ventilation and a continuous or intermittent ridge area ventilation system installed within a discontinuous roof system, consisting of an underlayment and a prepared roof covering, provides sufficient wind driven rain resistance to allow minimal water infiltration through the soffit and ridge area vent during a predetermined test period. In short, the roof will be leak-proof.

Mechanical Loading - UL 7103 Section 31

Certified to UL7103 Section 31. Additionally, SunStyle has a mounting solution that supports up to 200 psf Design Load.

Grounding - UL 2703

SunStyle is certified under UL 2703 to not require grounding due to no metal casing in the system. UL 2703 requirements cover all ground/bonding paths and SunStyle's mounting system and roof assembly comply with this standard.



Get Started



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