

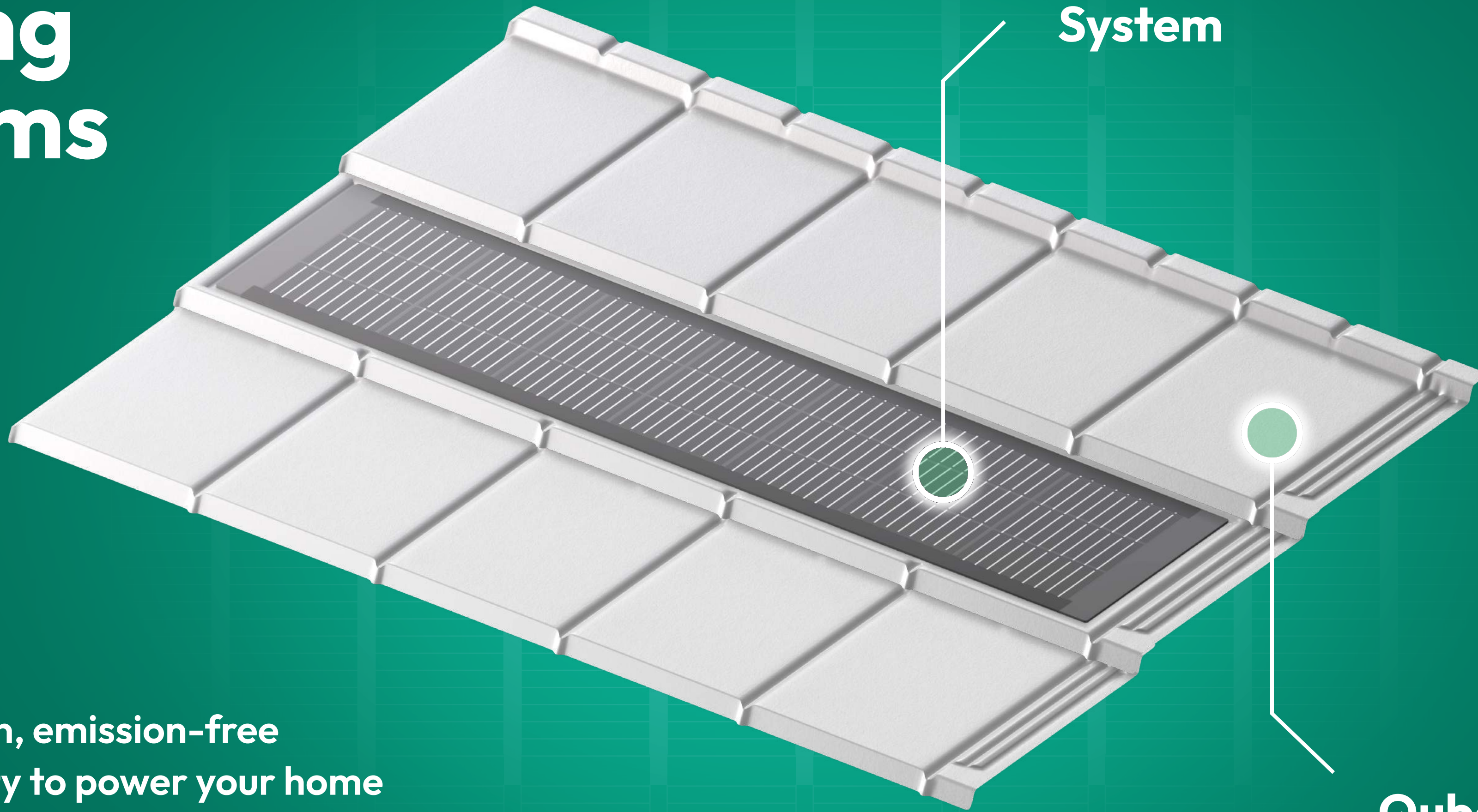


**eQube**

**Building Integrated  
Photovoltaic System**

**Metrotile**<sup>®</sup>  
worldwide roofing systems

# 2-in-1 solar roofing systems



**eQube  
Photovoltaic  
System**

**Seamless  
aesthetics**

Fully integrated solar panels match perfectly with the lightweight Metrotile Qube tile profile, so they can be installed on any part of the roof that faces the sun

Get clean, emission-free electricity to power your home together with your new roof installation

**Qube  
Roofing  
System**

# BIPV will change the way we build our houses

BIPV, Building Integrated Photovoltaics, is the integration of photovoltaics (PV) into the building envelope.

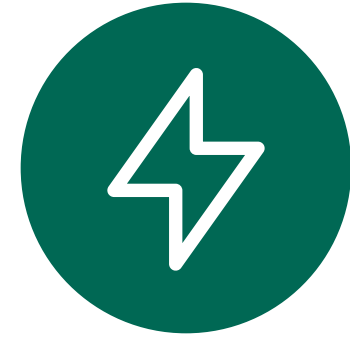
**Integrated PV doubles the win.** It replaces conventional building envelope materials and generates power at the same time. There is no longer a need to use conventional roof materials and install special solar panel mounting systems separately.

The all-in-one eQube BIPV solution gives the building facing a dual function. Moreover, BIPV systems often have lower overall costs than traditional PV systems. With eQube, the incremental cost of photovoltaics is reduced and its life-cycle cost is improved.



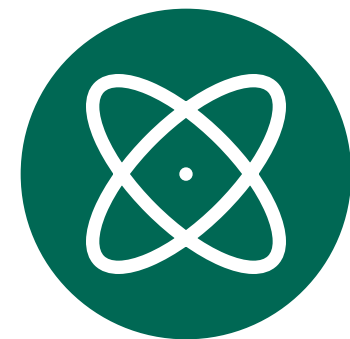
# eQube Photovoltaic System

Cost-effective monocrystalline solar panels can be incorporated with a Metrotile lightweight metal roof



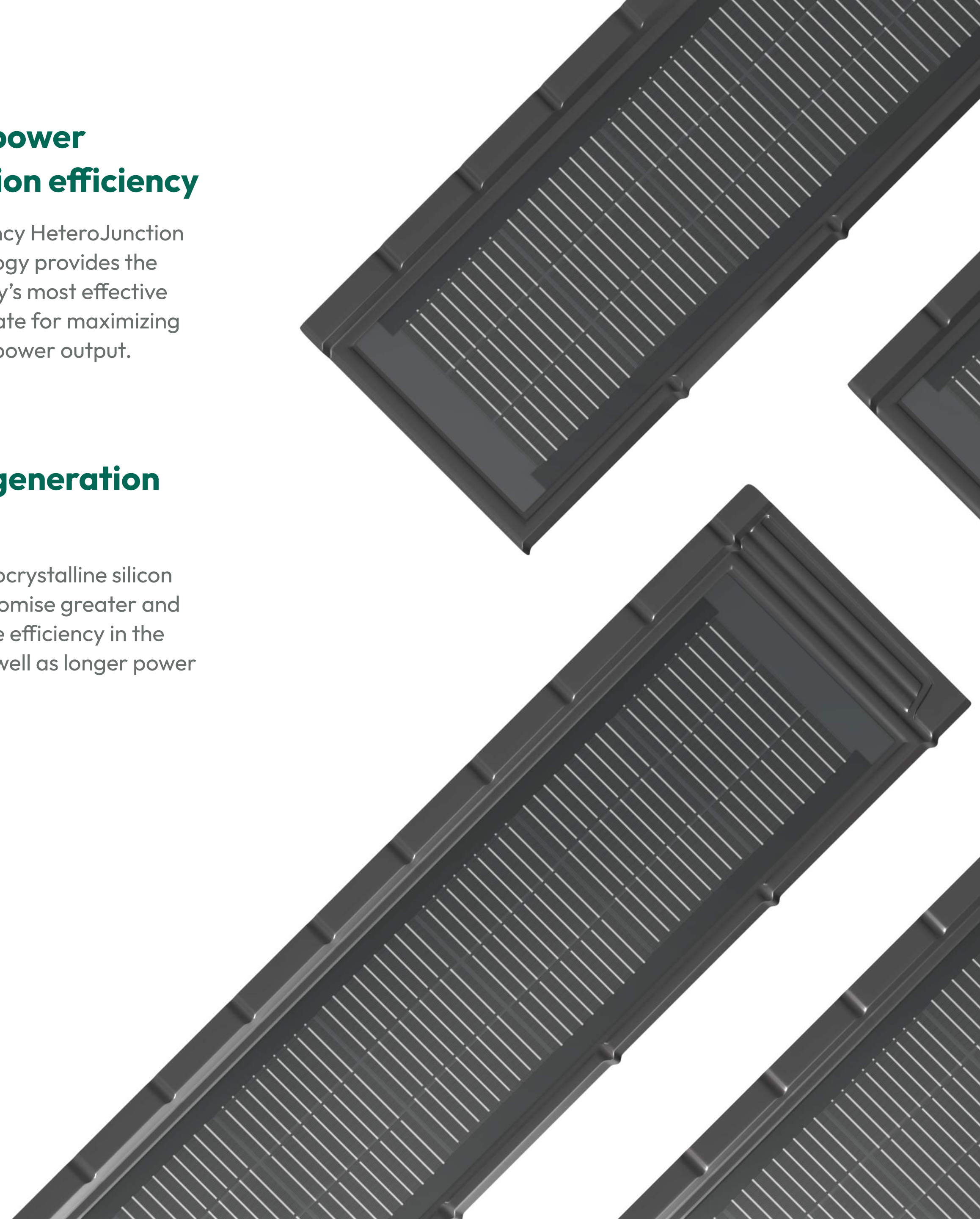
## >21 % a power conversion efficiency

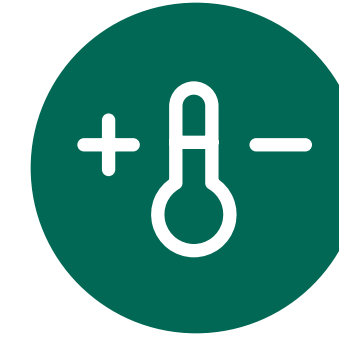
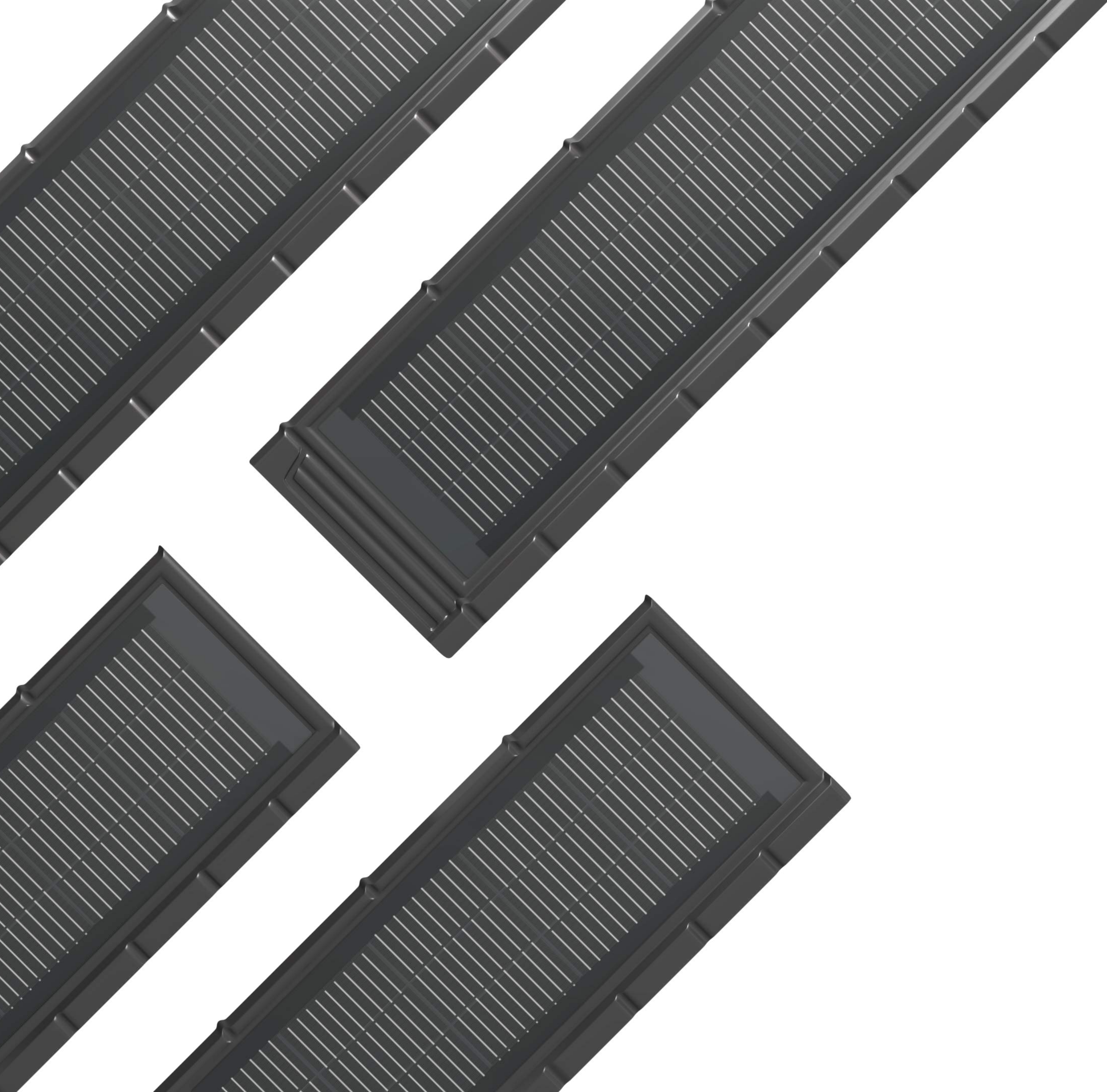
High-efficiency HeteroJunction (HJ) technology provides the solar industry's most effective process to date for maximizing efficiency & power output.



## Latest-generation PV

N-type monocrystalline silicon solar cells promise greater and more reliable efficiency in the long run, as well as longer power guarantees.





### **Designed to be effective 24/7**

Their lower temperature coefficient than conventional solar panels ensure high performance even at elevated external temperatures.



### **No extra hassle or costs**

As the PV elements are integrated with the roof panel itself, there is no additional structure needed. An additional static calculation for a PV substructure is therefore not required.



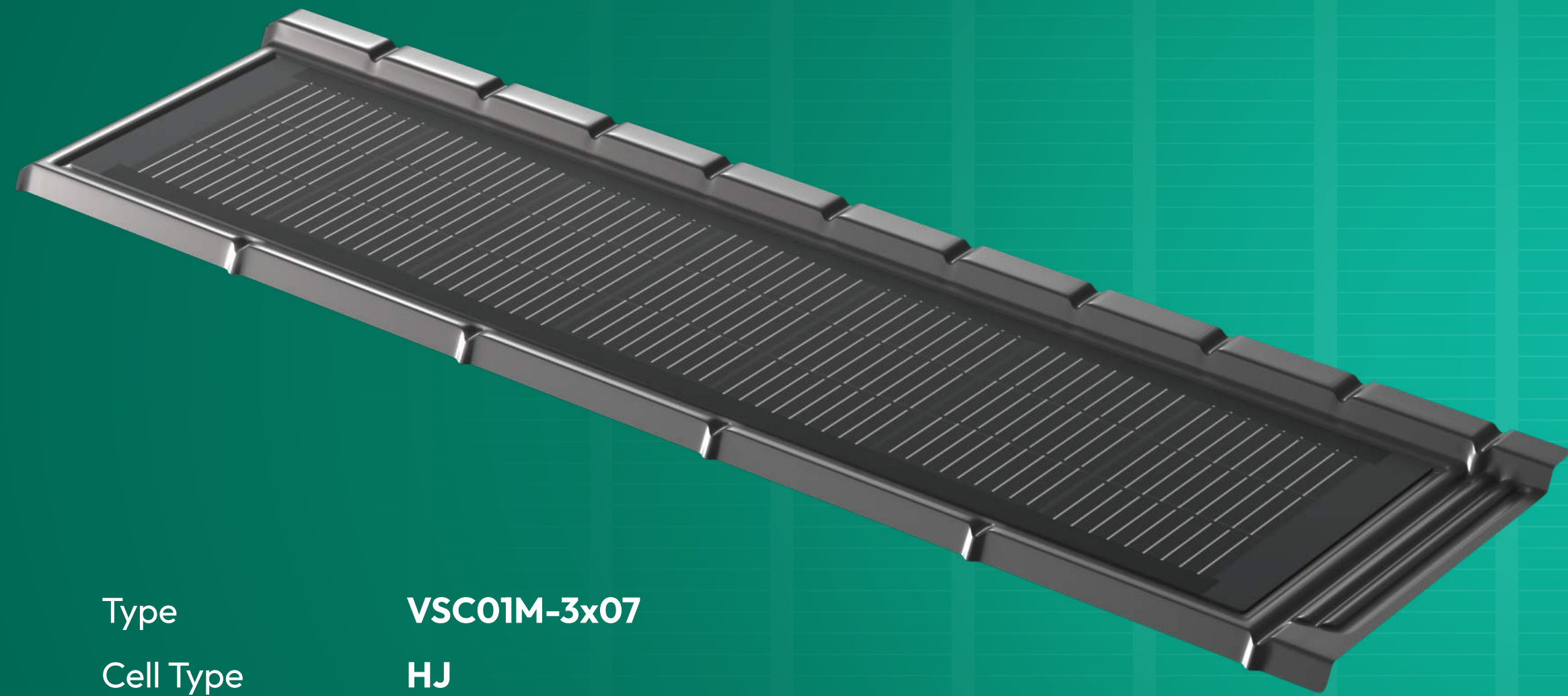
### **Ultra-Lightweight**

Reduce roof weight to 2.5 kg/m<sup>2</sup> – about 6 times lighter than traditional PV panels of the same size.

# eQube PV System

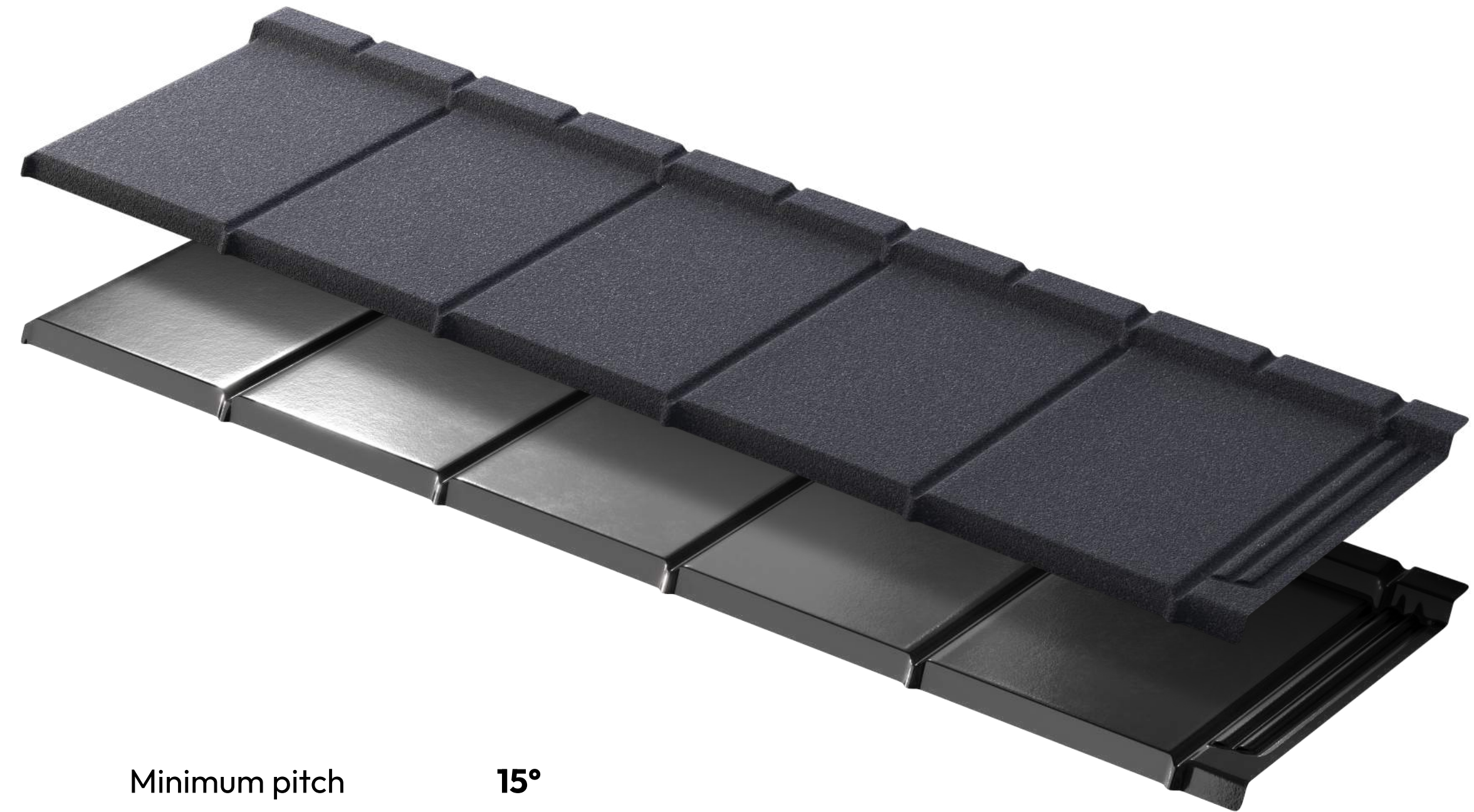
Solar cells

N-type  
Mono-crystalline  
Silicon Solar Cell



Type	<b>VSC01M-3x07</b>
Cell Type	<b>HJ</b>
Power	<b>60 W</b>
Dimensions	<b>1210 x 300 mm</b>
N° of cells	<b>21</b>
Voc	<b>14.83 V</b>
Imp	<b>5.3 A</b>
Vmp	<b>12.86 V</b>
Isc	<b>5.37 A</b>

# Qube Roofing System



Minimum pitch	<b>15°</b>
Size – overall	<b>1305 x 350 mm</b>
Size – cover	<b>1260 x 321 mm</b>
Tiles per m <sup>2</sup>	<b>2.47 pcs</b>
Roof cover	<b>0.405 m<sup>2</sup></b>
Weight per panel	<b>2.10 kg</b>

# Qube Roofing System

Qube offers a sleek profile with clean, straight lines and great sound insulation for houses on the frontier of modern architecture.



## Easy installation

Handling and cutting are easy; perfect for re-roofing



## Storm-proof

Withstands high winds, cyclones, and even hurricanes.



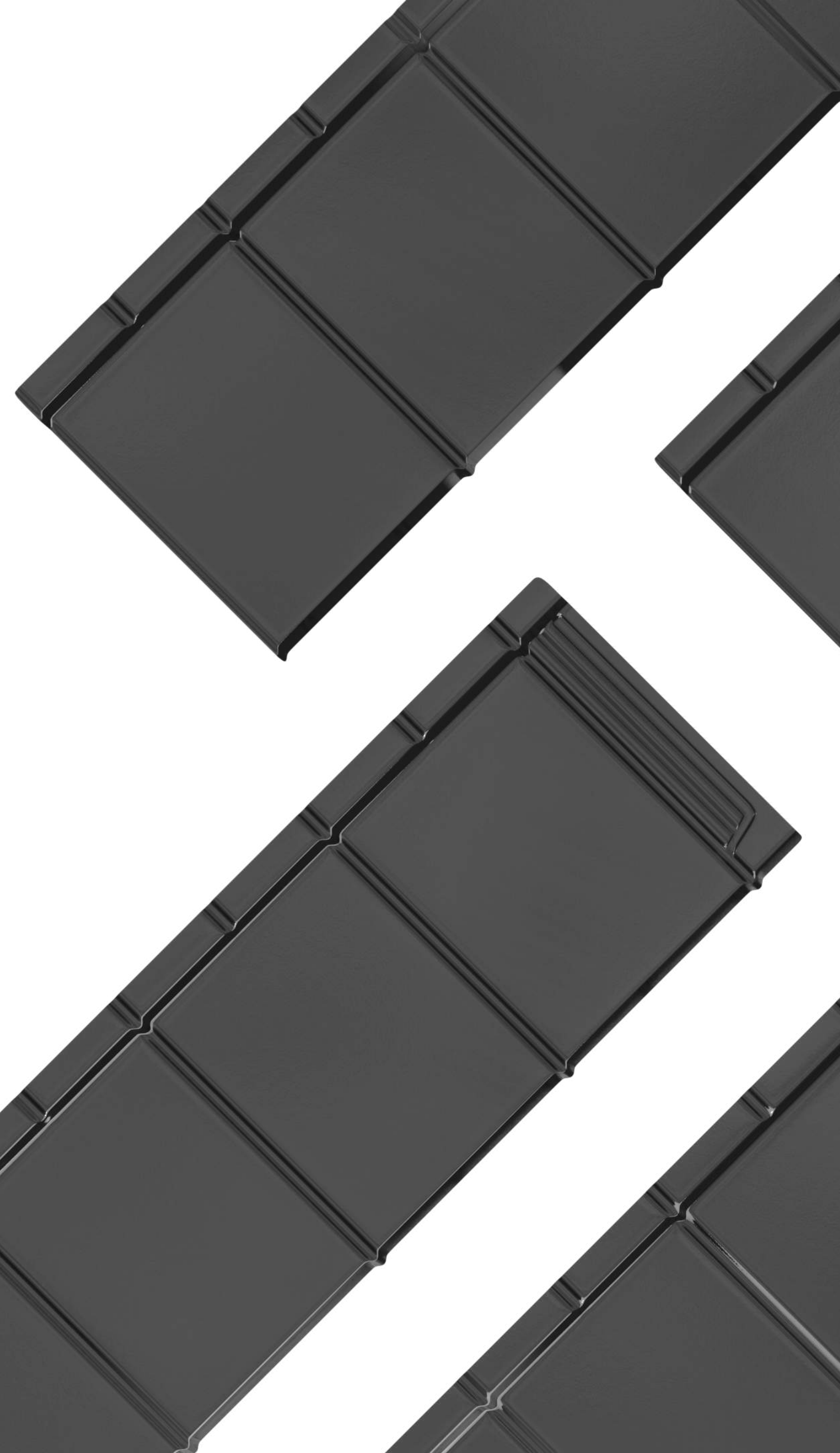
## Lightweight

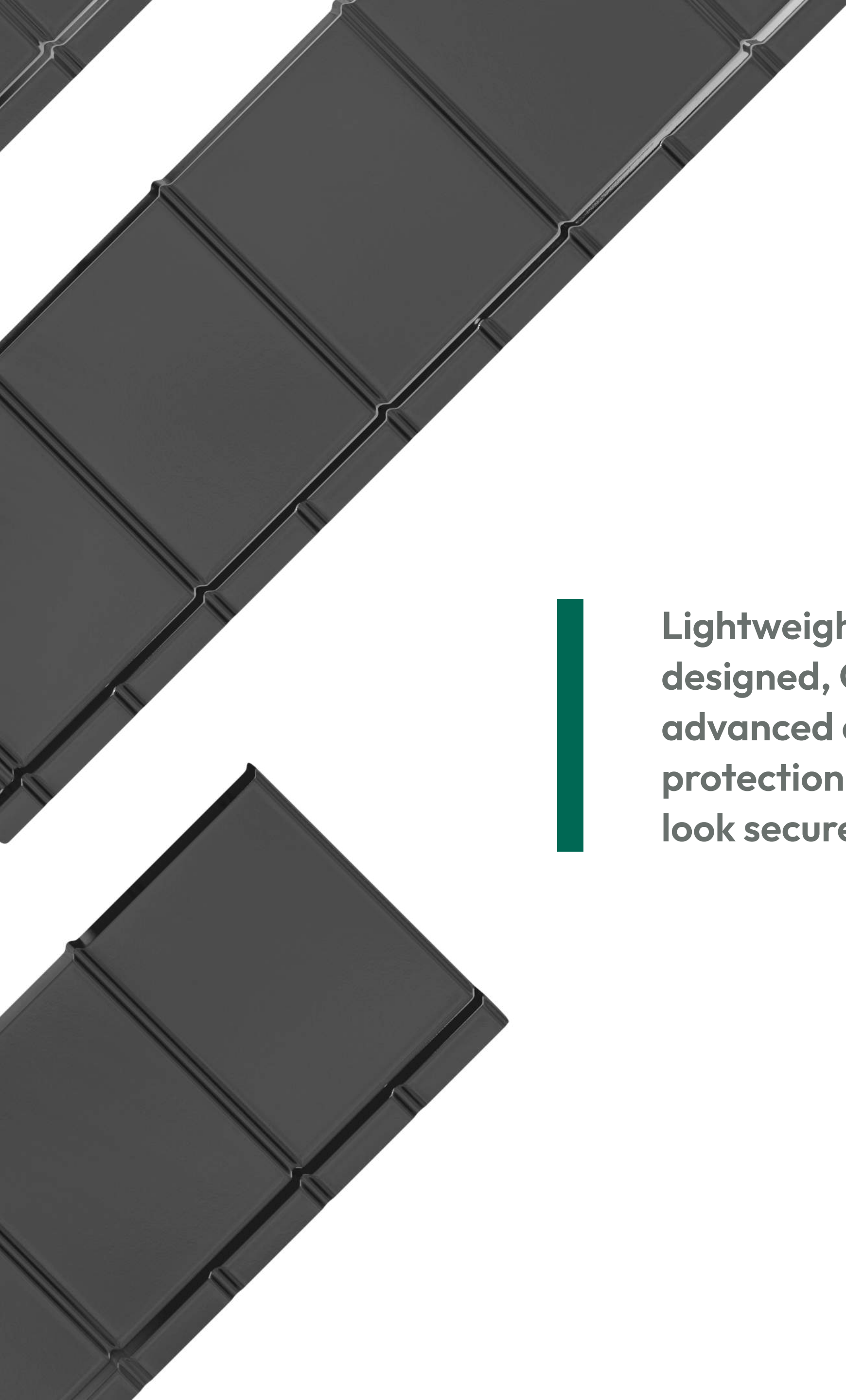
approx. 1/7 of the weight of traditional heavy tiles.



## Aesthetics

Beautiful throughout the entire lifespan of the product.





Lightweight and exquisitely designed, Qube roof tiles provide advanced all-weather protection. Your roof doesn't just look secure; it truly is.



Matt  
Charcoal

### **Powder coating**

Super-durable UV and scratch-resistant 80-micron coating

### **Polyurethane primer**

Protection and corrosion resistance to the steel core

### **Zinc-Aluminium-Magnesium alloy**

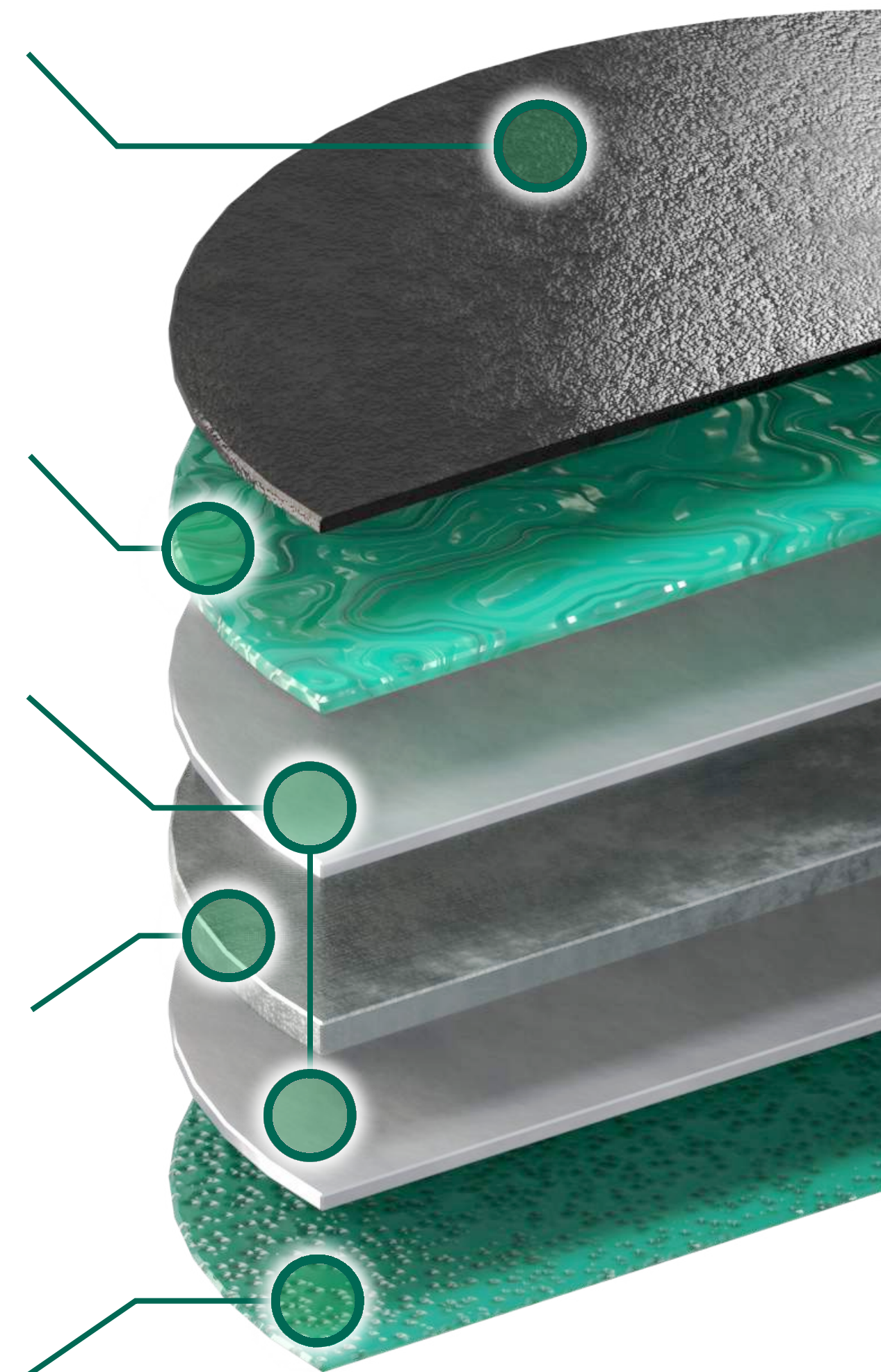
93,5% zinc, 3,5% aluminium, 3% magnesium

### **Steel**


Durable, rigid, lightweight, and corrosion-resistant core

### **Polyester backer**

Superior corrosion resistance at the underside of the tile





The image shows a close-up of a dark grey roof with solar panels. The 'eQube' logo is superimposed on the roof tiles. The 'e' is yellow and the 'Qube' is white with a glowing effect. The background shows a blue sky with white clouds.

**eQube**

**The game rules  
have changed**

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