

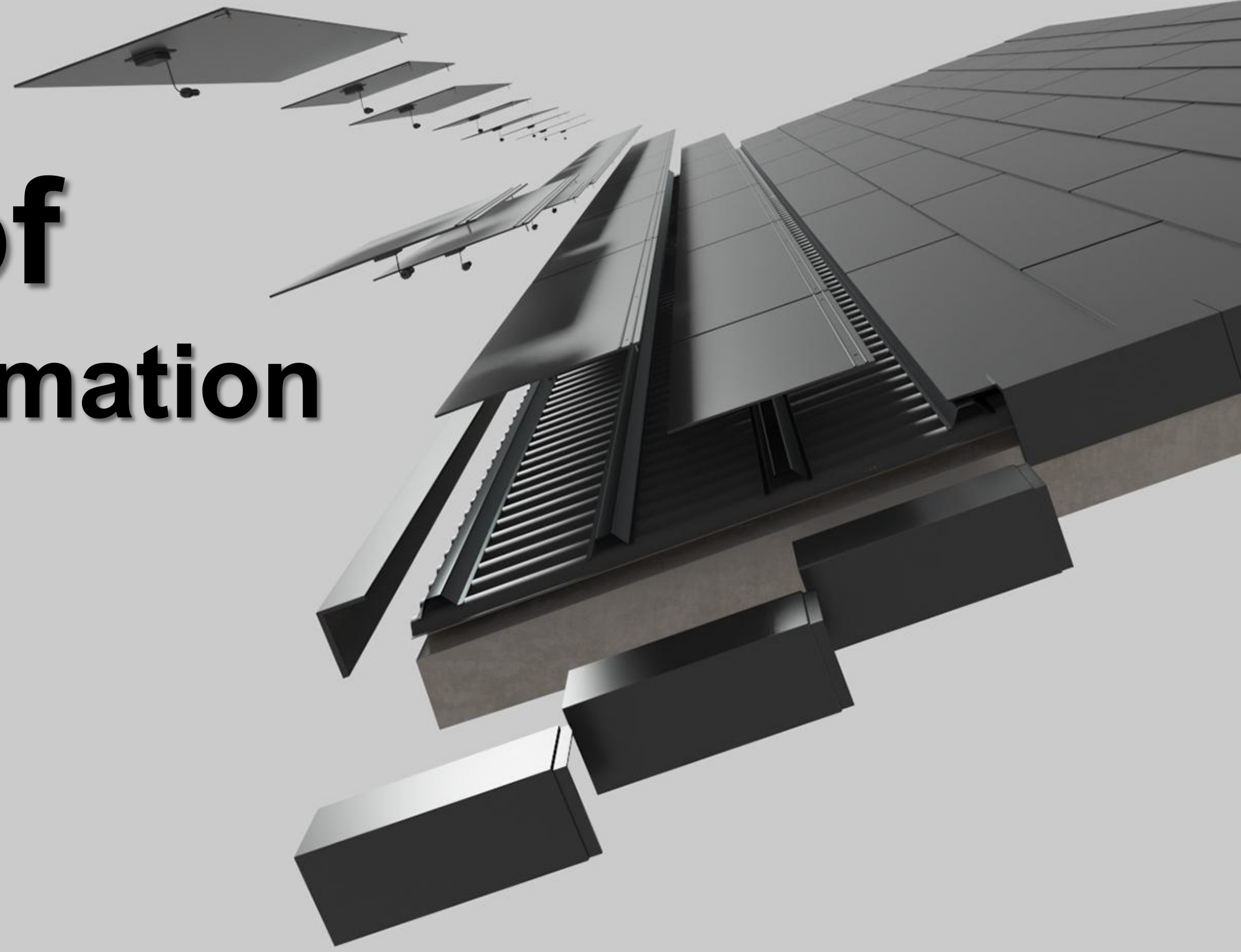
Solar Roof Product Information

Let every family enjoy green energy.

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Aesthetic solar roof

product positioning

- 1 Aesthetic solar roof**
- 2 Integrated roof system**
- 3 Perfect accessory system**

- 4 Intelligent software design roofing**
- 5 Extreme cost performance ratio**
- 6 Energy producing, energy saving, low carbon**

Aesthetic solar roof

Commercial path

1

Serve spire customers well . Turn projects and customers into sales through spire projects .

2

Continuously upgrade and iterate the product to optimize the supply chain , reduce costs of technological innovation and equipment research and development , improve efficiency then link production of design software to improve the level of intelligent manufacturing .

3

With the continuous improvement in production efficiency , the spire project gradually covers more middle class and ordinary projects .



Global annual tile roofing market (spire customers) :

30 millionsqm/year
(New Roofing market)

40 million sqm/year
(Renovated roofing)

Calculate pv installed capacity by 100 w/squaremeter
the capacity is up to

7GW

Global annual tile roofing market (Total volume):

18 Billion sqm
per year

Total installation capacity is up to

200GW



Ugly: Construction is messy, photovoltaic modules do not agree with building color, which is very ugly.

Water leakage: stents damage the waterproof layer, water leakage hidden danger.

Danger: stand on the roof, anti-wind uncovering performance is poor, safety risks.

Light pollution: the surface of solar glass reflects light strongly, and light pollution is serious.



Aesthetics : Aesthetic photovoltaic roof . Display level anti-glare technology , ultra-low glare , more texture .

Safety : 3 times as strong as ordinary roof , resistant to hail (35mm) impact , resistant to 15 wind uncover .

Warranty : 25 years super long waterproof warranty , roof safety warranty , power generation warranty , three times the national standard .

Intelligent assembly : " Lego " assembly , intelligent design , modular production , standardized assembly construction .

Energy saving : ventilation , heat preservation , energy saving , summer room temperature can be reduced by 5-8 degrees , reduce energy consumption by 10% .

Health : ventilated roof to take away moisture , effectively inhibit mold , keep the building dry , more healthy .

Economic Analysis



BIPV-Aesthetic solar roof

BIPV Solar Roof Cost: **\$ 45000**

Can be used directly as tiles

Same installed capacity
Better cost
Higher style



BAPV-Block tile roof

Total Cost: **\$ 62500**

Tile roof cost : **\$ 25,000**
Solar panel cost : **\$ 37,500**

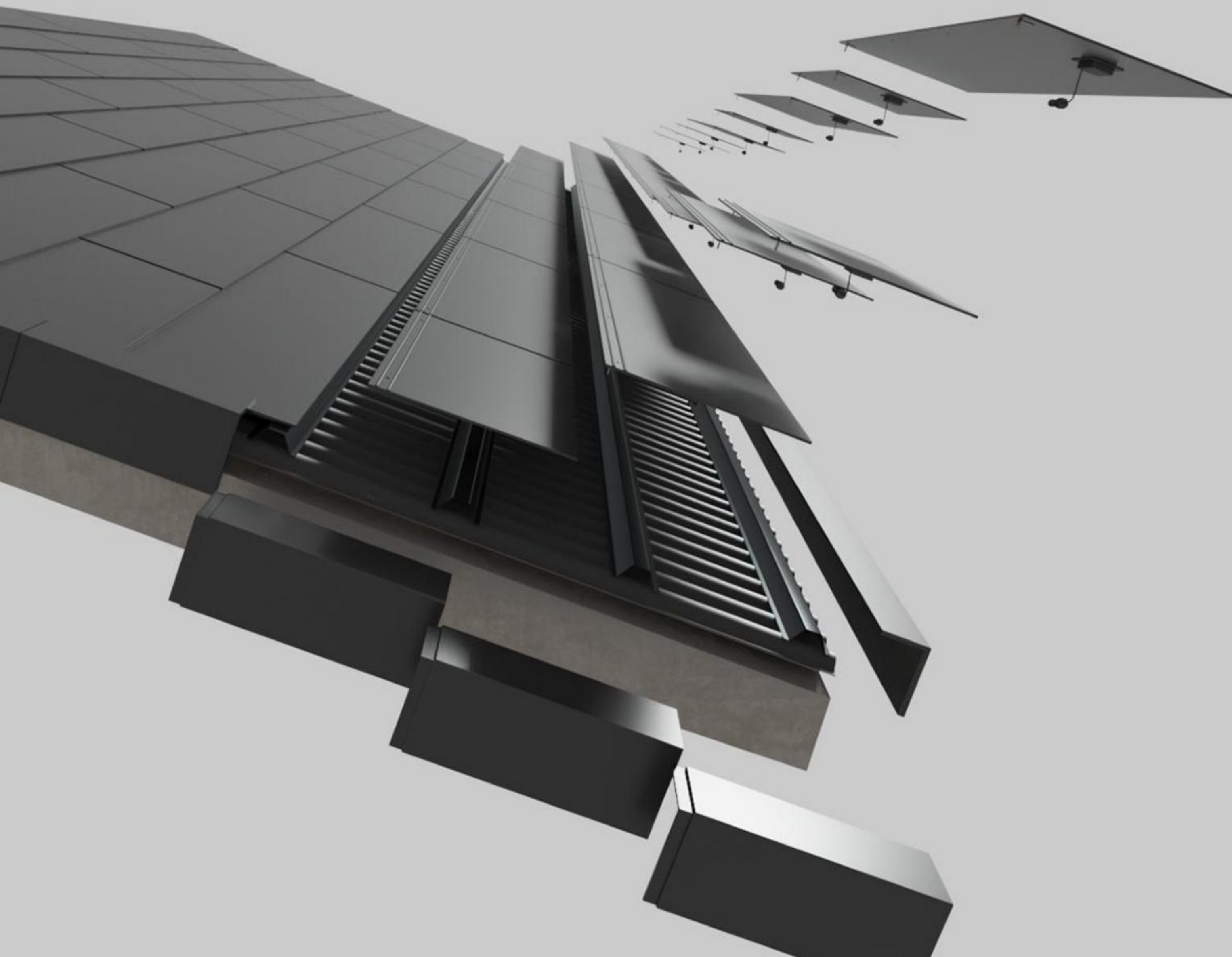


BAPV-Asphalt tile roof

Total Cost: **\$ 45500**

Tile roof cost : **\$ 8,000**
Solar panel cost : **\$ 37,500**

| California example | |
|----------------------|---------------------|
| Project area : | 200 m² / 2152.78ft² |
| Installed capacity : | 15 kW |
| power generation : | 20,000+ kWh/year |



Aesthetic solar roof

Display level anti-glare technology ,super matte
(reduce light reflection , light pollution) .
Internal power generation unit hidden technology ,
delicate roof texture

Size(mm) (inch)

| | |
|----------|-------------|
| 1240*390 | 48.80*15.35 |
| 1408*438 | 55.43*17.24 |
| 1950*420 | 76.77*16.54 |

Materials:

Mono solar cell
Tempered Glass

Wind loading

GB36584-2018 15 级

Warranty

25 years

Hardness:

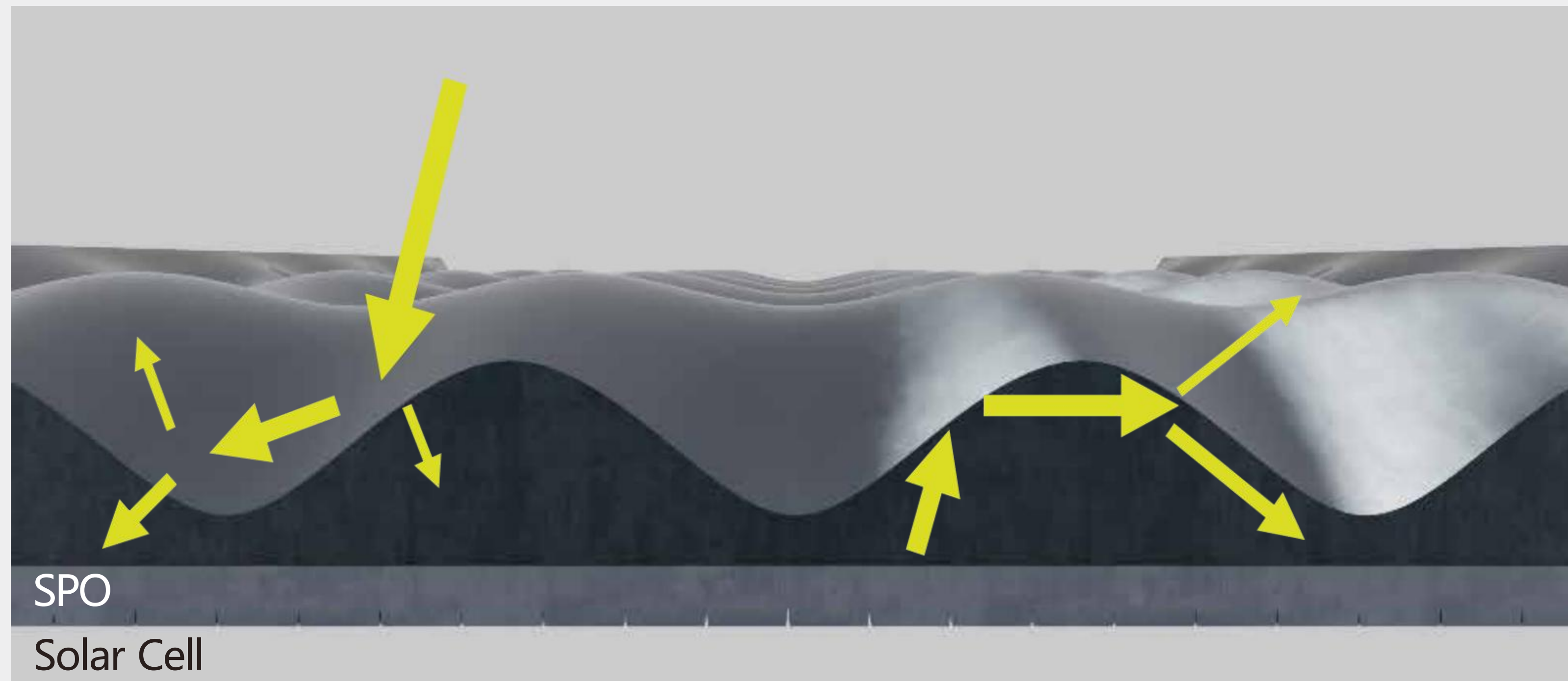
3 times as strong as ordinary roof, cement
tile. resistant to hail (35mm) impact.

For the first time , the screen level anti - glare technology is applied for tile . (Pro)

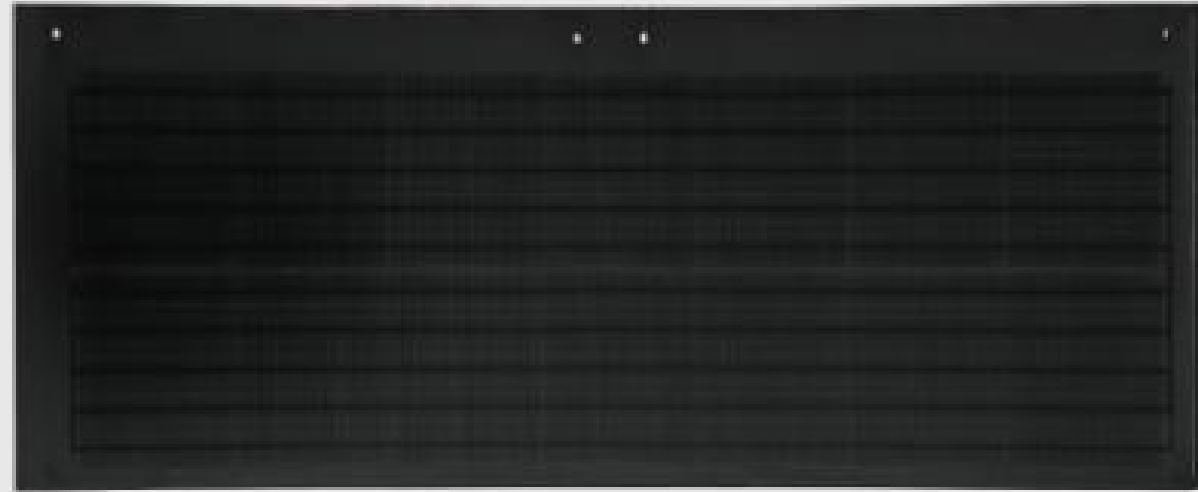
Not only can reduce the glass light reflection , light pollution , but also can effectively hide the internal power generation unit . From a certain Angle , the power generating unit inside the glass is completely invisible .

Product structure:

3.2mm tempered Glass / **(SPO)** / **(Black Solar Cells)** / **(SPO)** / **3.2 tempered glass**



Aesthetic solar roof tiles



Pro

Size: 1240mm × 390mm
Pmax: 70W/pcs



Plus

Size: 1408mm × 438mm
Pmax: 100W/pcs



Max

Size: 1408mm × 438mm
Pmax: 110W/pcs



P135

Size: 1950mm × 420mm
Pmax: 135W/pcs



Pro

Size: 1240mm × 390mm

P m a x : 7 0 W / p c s



Plus

Size: 1408mm × 438mm
P m a x : 1 0 0 W / p c s



Max

Size: 1408mm × 438mm
P m a x : 1 1 0 W / p c s

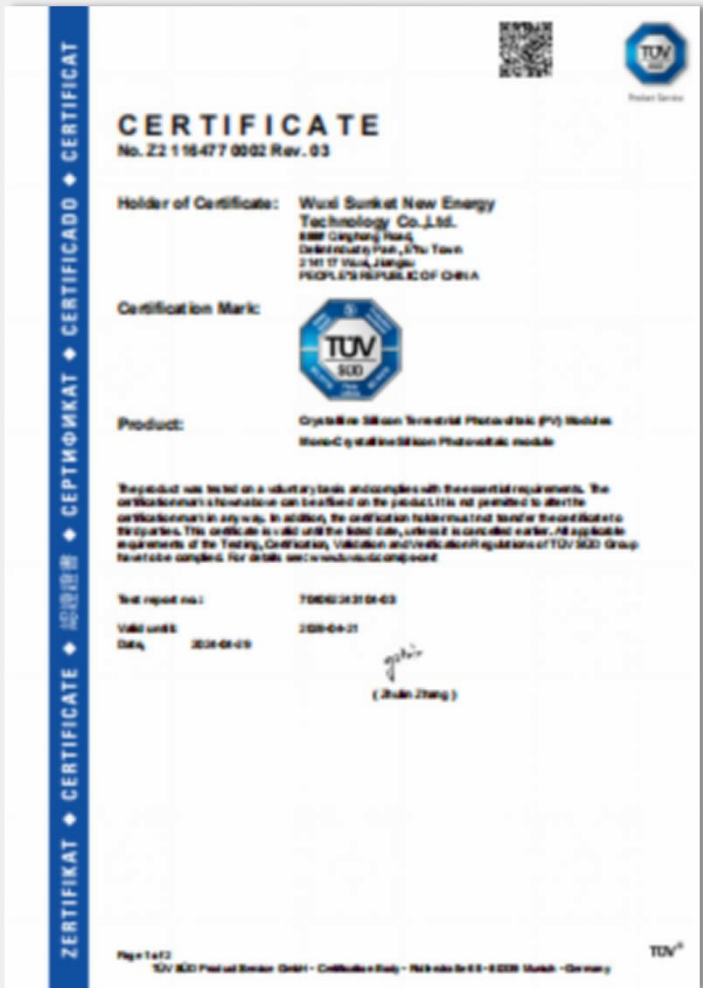


P135

Size: 1950mm × 420mm

P m a x : 1 3 5 W / p c s

Enterprise qualification



TUV SUD



TUV NORD



CE



UL



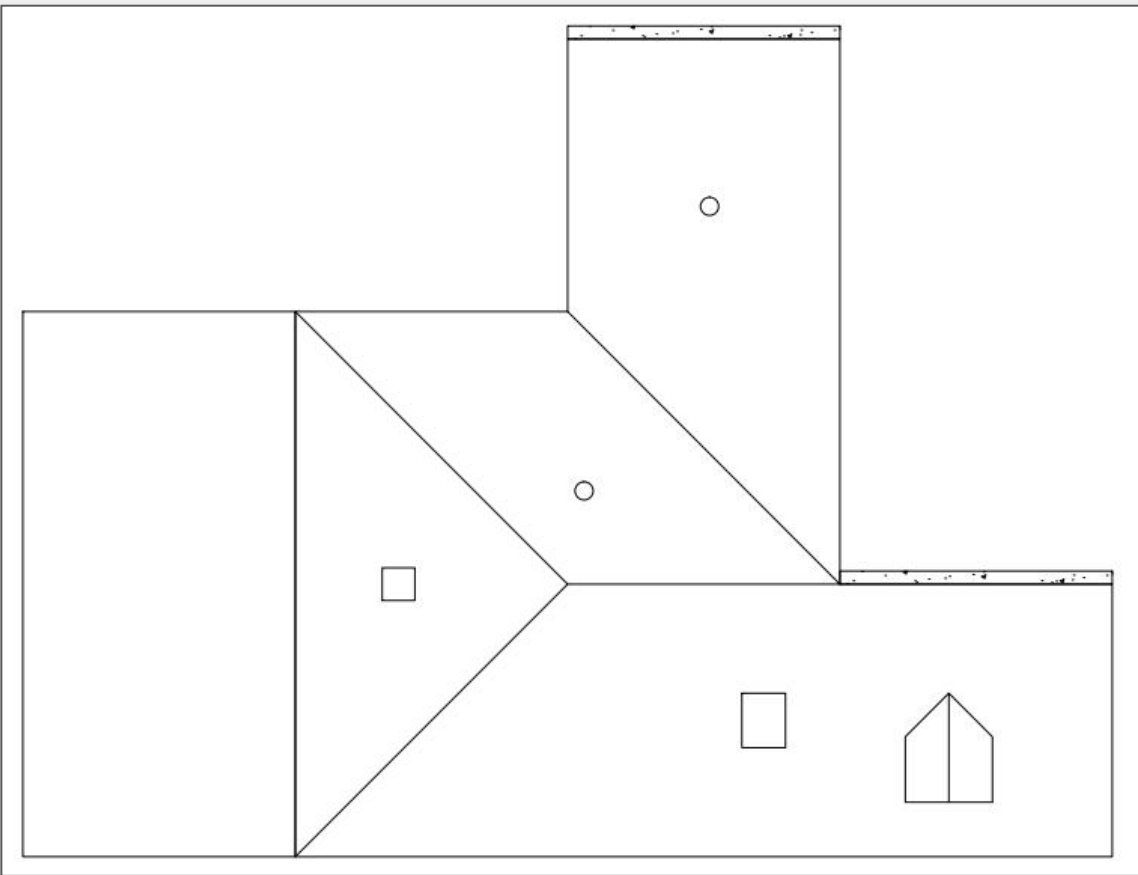
RoHS



MCS

Intelligent software design

a、CAD drawings



b、Roof layout intelligent software

屋面板布置程序V1.07-20220116 R&D By TZheng-YLXS

项目名称 日期

屋面板信息

☒ PFW一体屋面板 ☐ 智装屋面板

板宽

板型

底部挂瓦条距离

挂瓦条距离

运行信息:

光伏瓦信息

所在地附近

周围环境

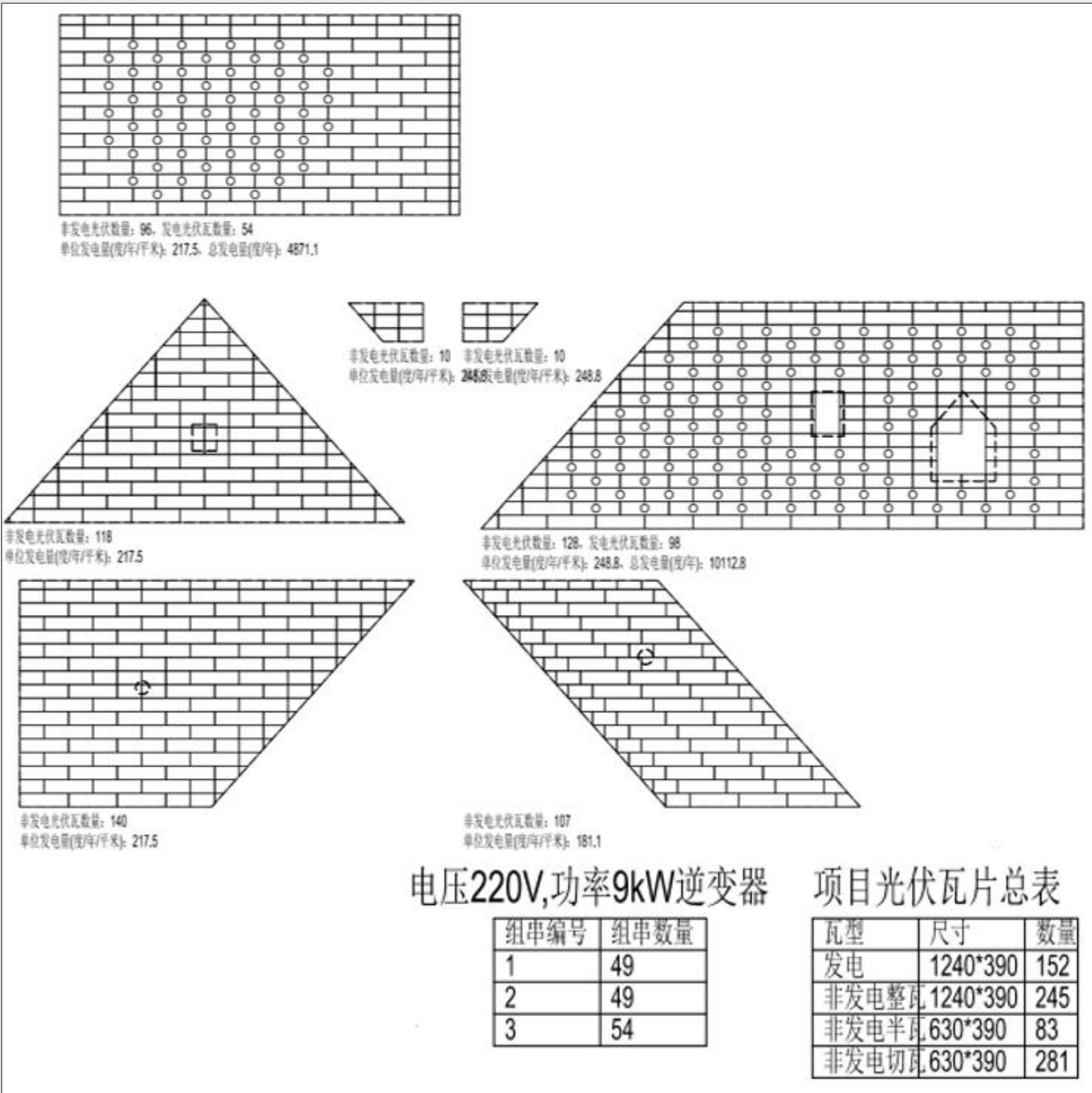
光伏组件形式

光伏发电量需求 度/年

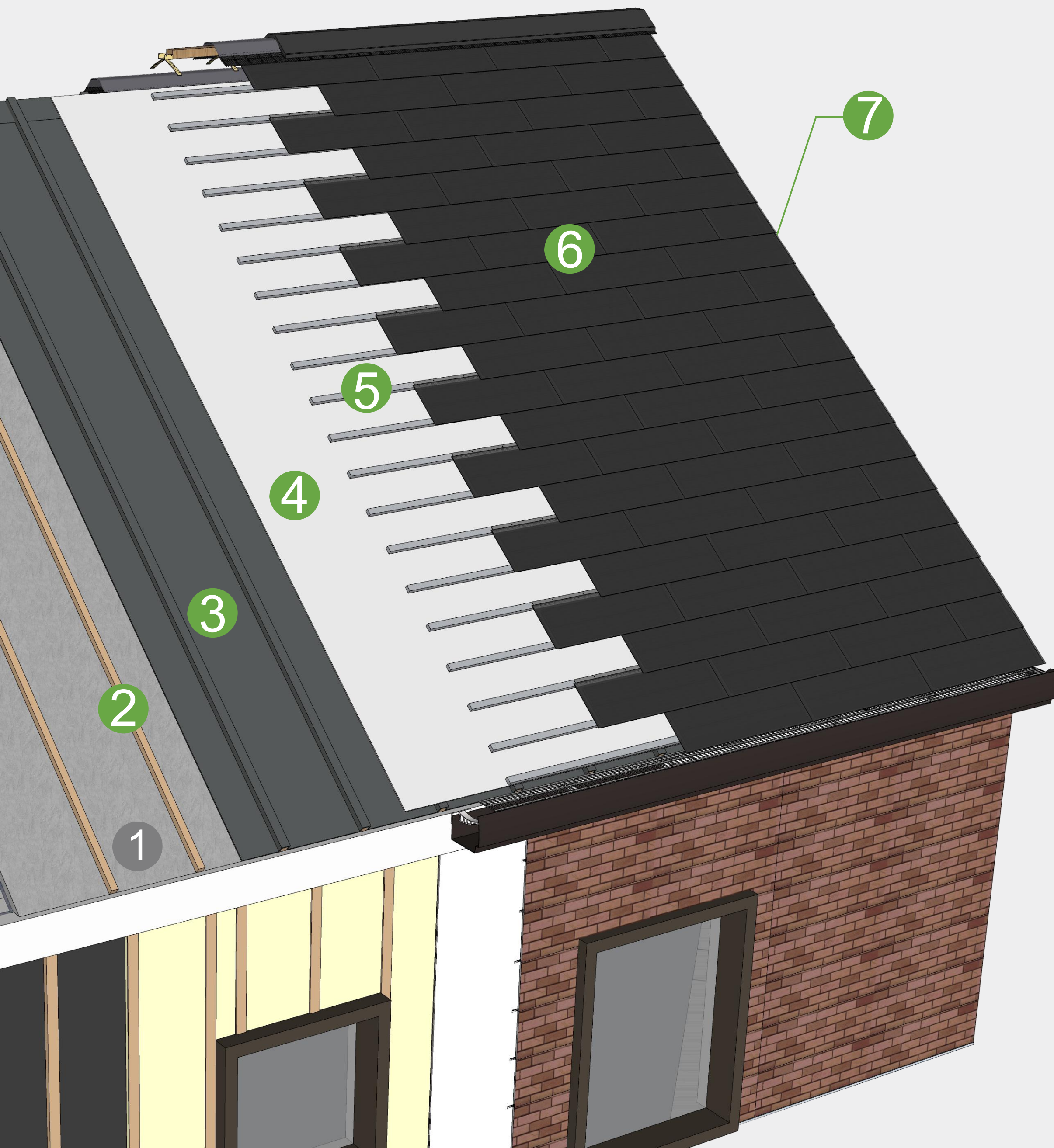
逆变器电压 ☒ 380V ☐ 220V

光伏瓦尺寸

c、Roof solar tile layout diagram

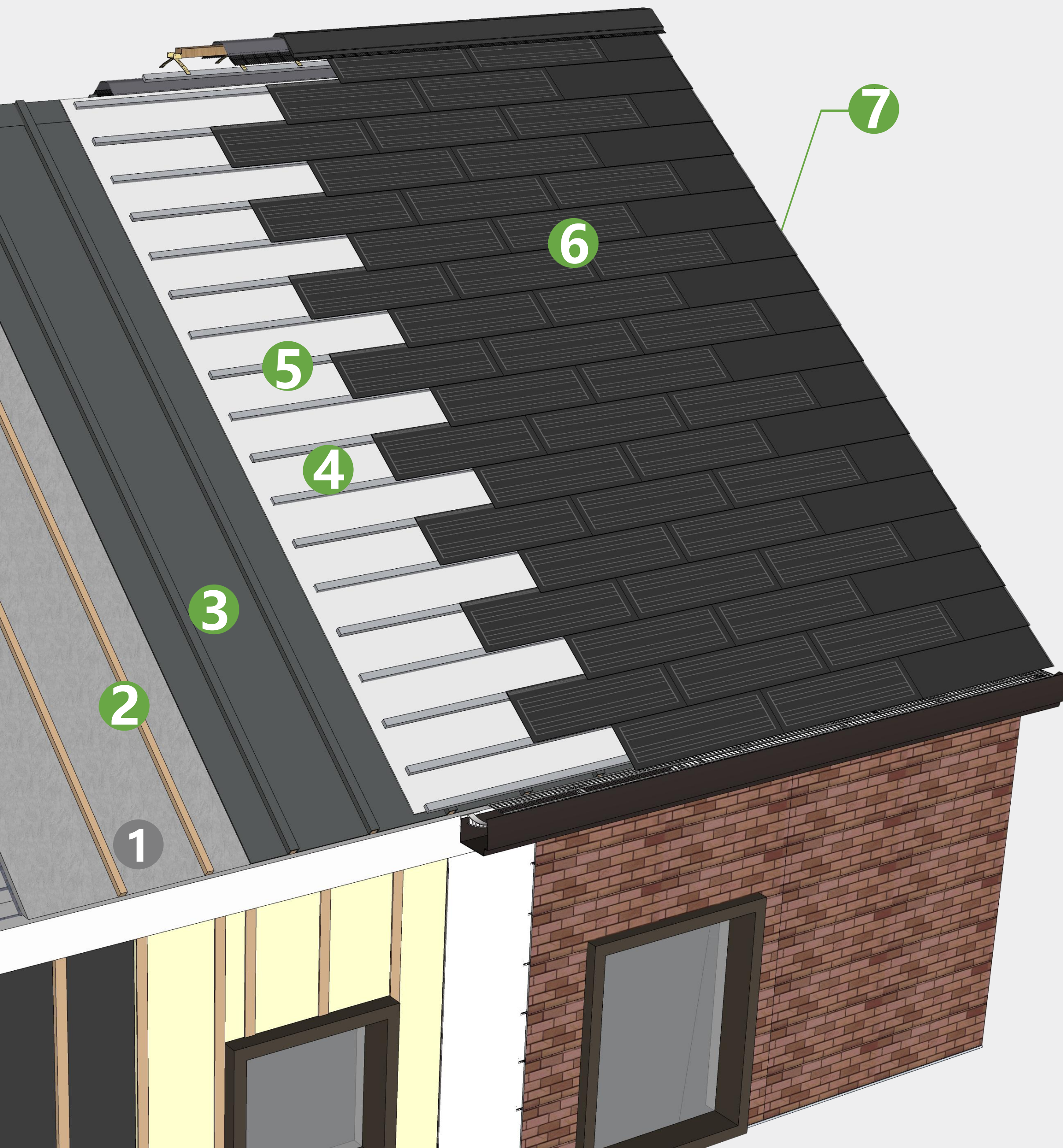


- Optimize the layout of solar roofs
- Automatically generate project quantities and material usage



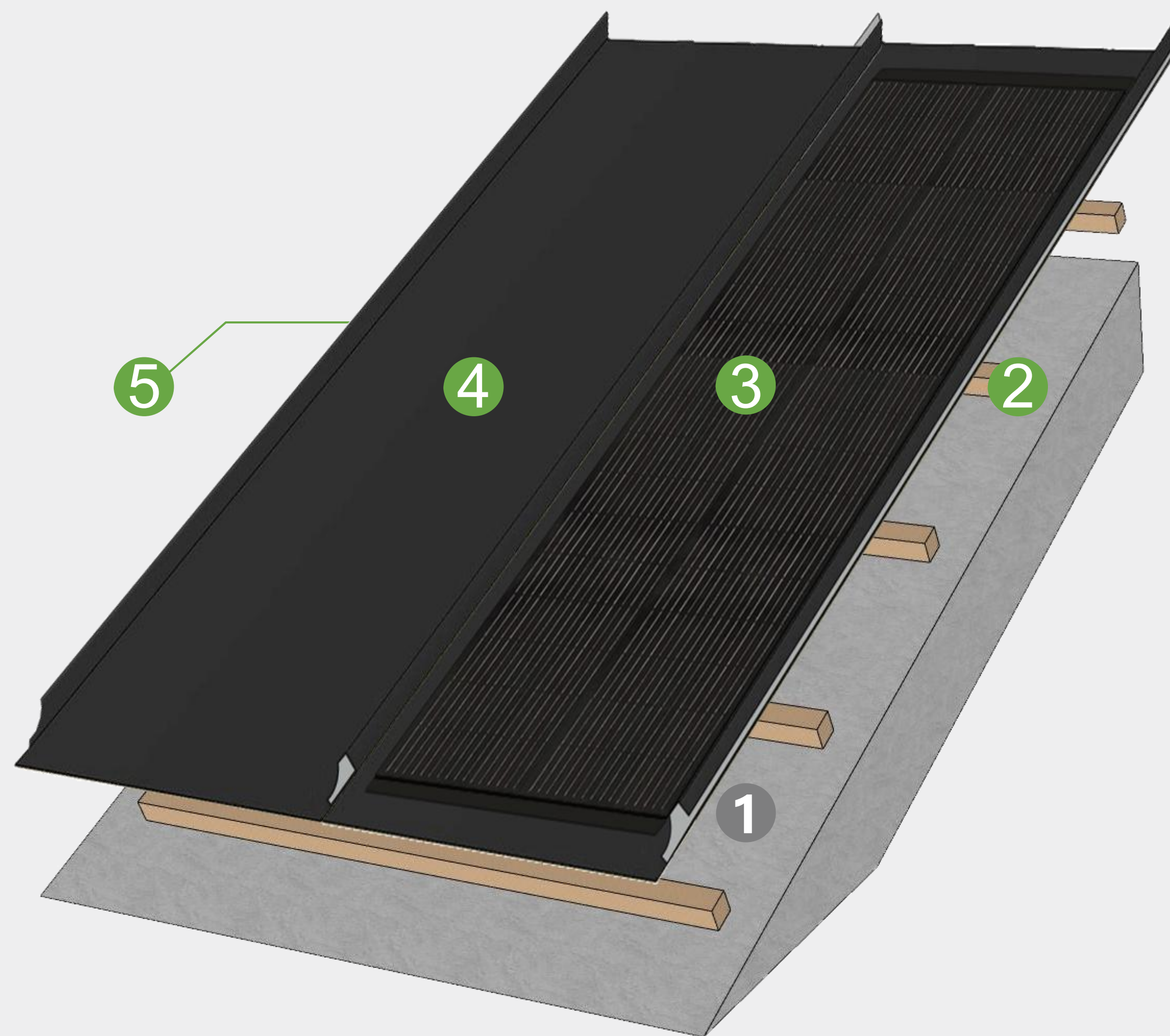
Pro/Max

- 7 Inverter, grid - connected electrical box, cable and accessories
- 6 Solar roof tiles (Pro/Max)
- 5 Metal batten
- 4 Underlayment(Waterproof and insulated)
- 3 Underlayment(Waterproof and breathable)
- 2 Counter batten
- 1 Concrete/Wood base



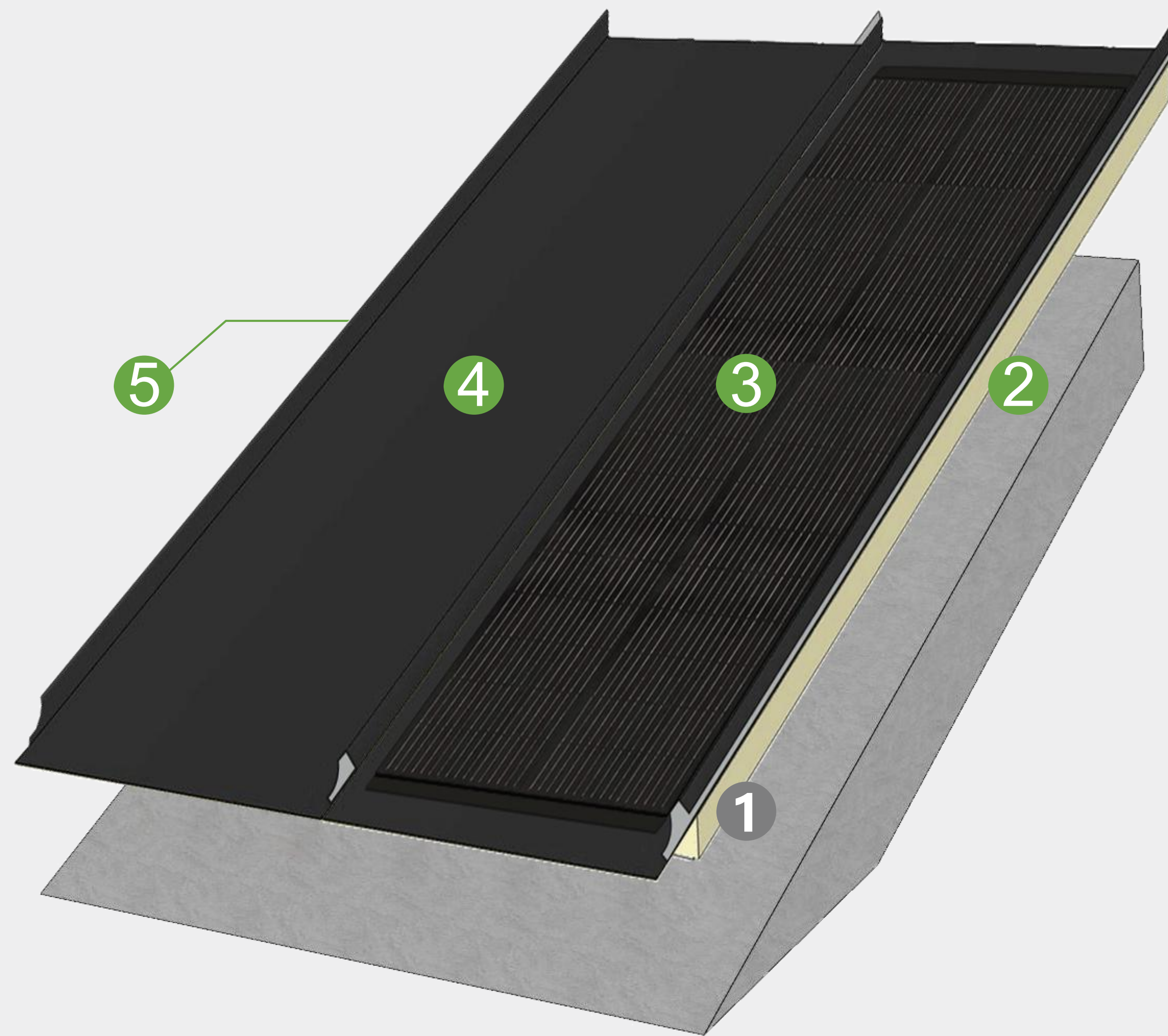
Plus

- 7 Inverter, grid - connected electrical box, cable and accessories
- 6 Solar roof tiles (Plus)
- 5 Metal batten
- 4 Underlayment(Waterproof and insulated)
- 3 Underlayment(Waterproof and breathable)
- 2 Counter batten
- 1 Concrete/Wood base



P135

-
- 5 Inverter, grid - connected electrical box, cable and accessories
-
- 4 Metal tiles
-
- 3 Solar roof tiles (P135)
-
- 2 Batten(wood)
-
- 1 Concrete/Wood/Steel base
-



P135+

- 5 Inverter, grid - connected electrical box, cable and accessories
- 4 Metal tiles
- 3 Solar roof tiles(P135+)
- 2 Extruded board insulation
- 1 Concrete/Wood/Steel base

Laminated
in factory

Aesthetic solar roof
pro/pro+



Aesthetic solar roof
Plus/Plus+/Max



Aesthetic solar roof
P135/P135+



Aesthetic solar roof P135/P135+



Aesthetic solar roof P135/P135+



Aesthetic solar roof



Aesthetic solar roof



Aesthetic solar roof



Aesthetic solar roof



Aesthetic solar roof



Aesthetic solar roof

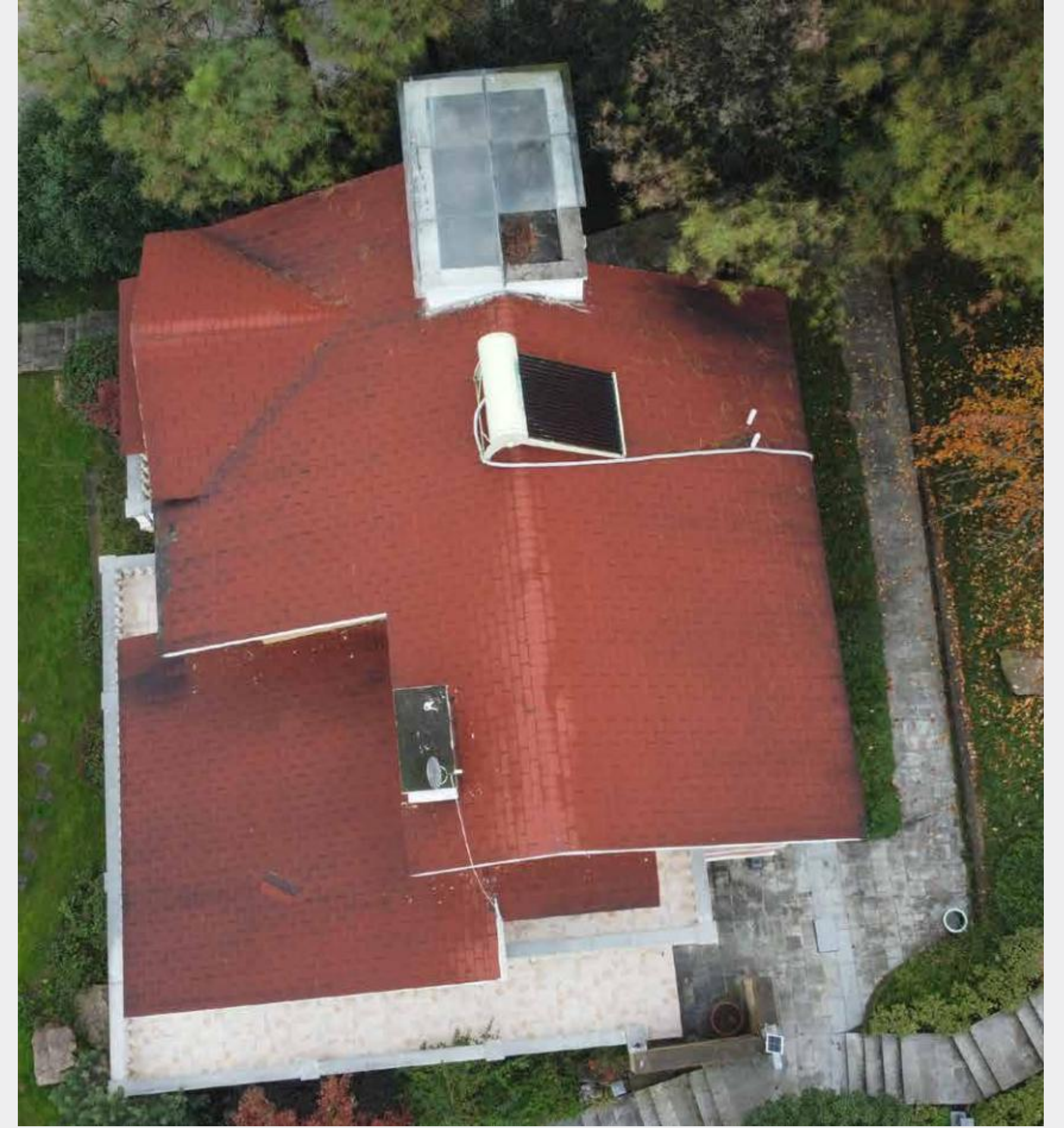


Project case

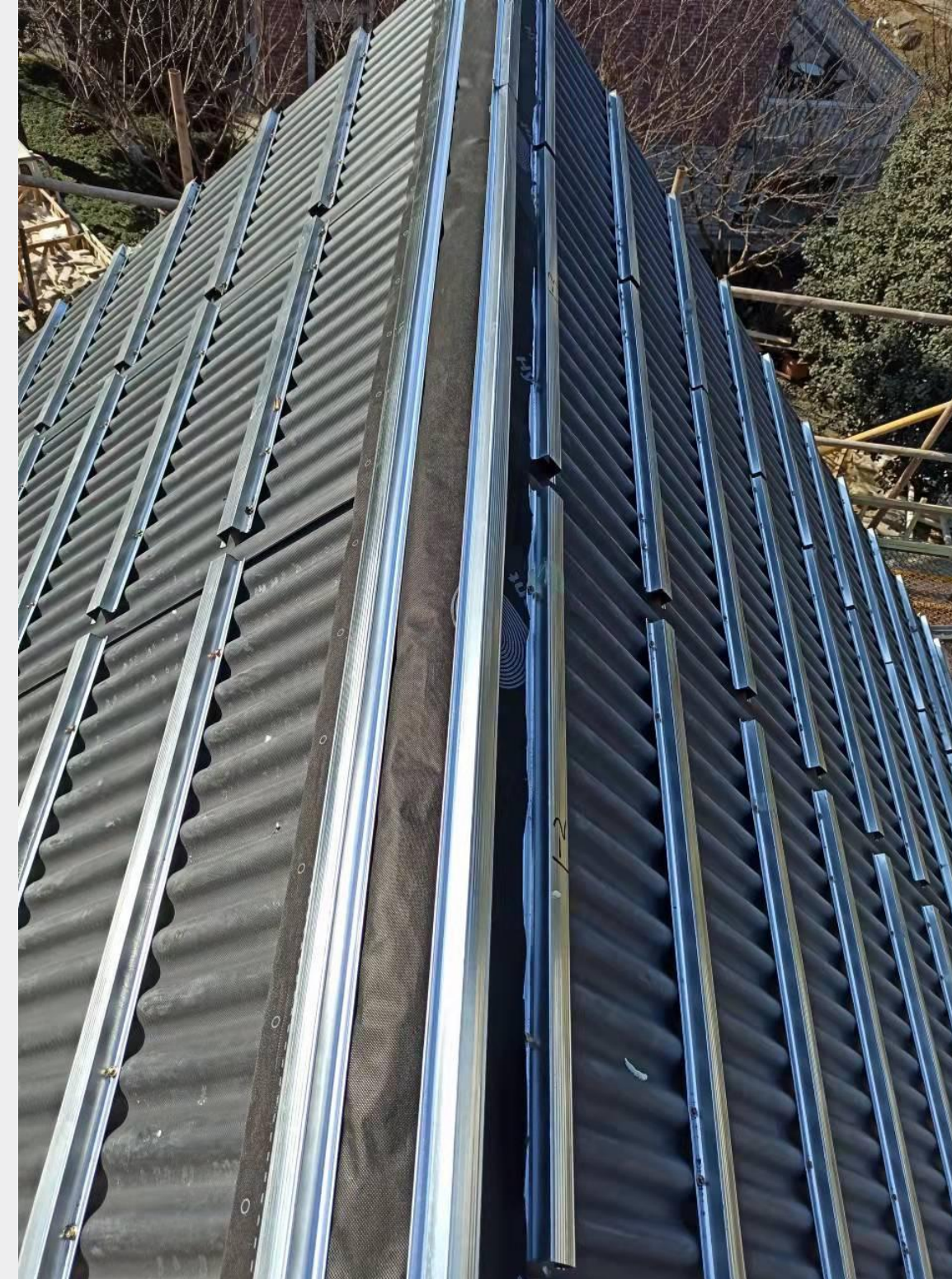


Project case

Before the construction



Project case



Project case



Project case



Aesthetic solar roof
pro/pro+



Project case

Before_Metal tile roof

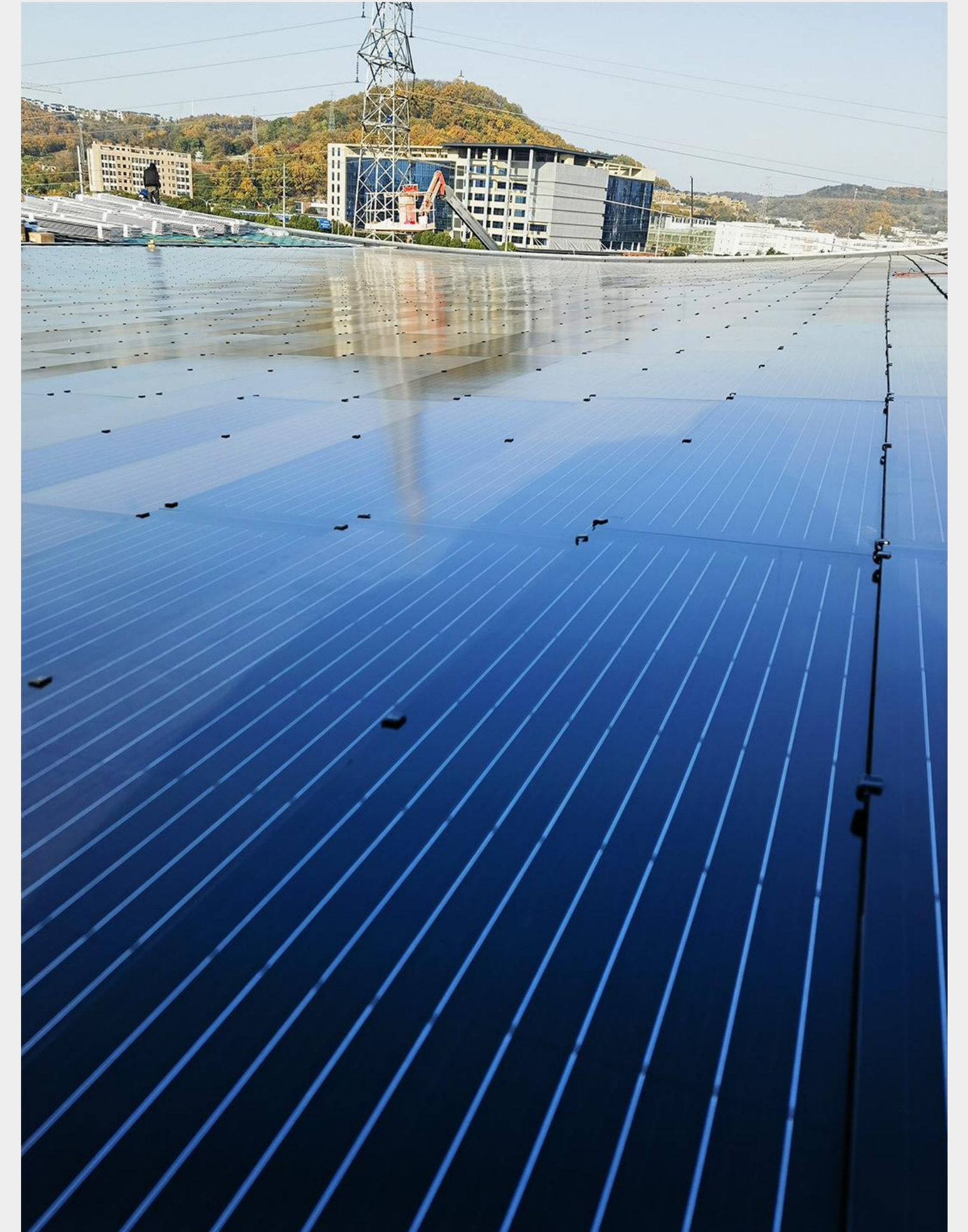
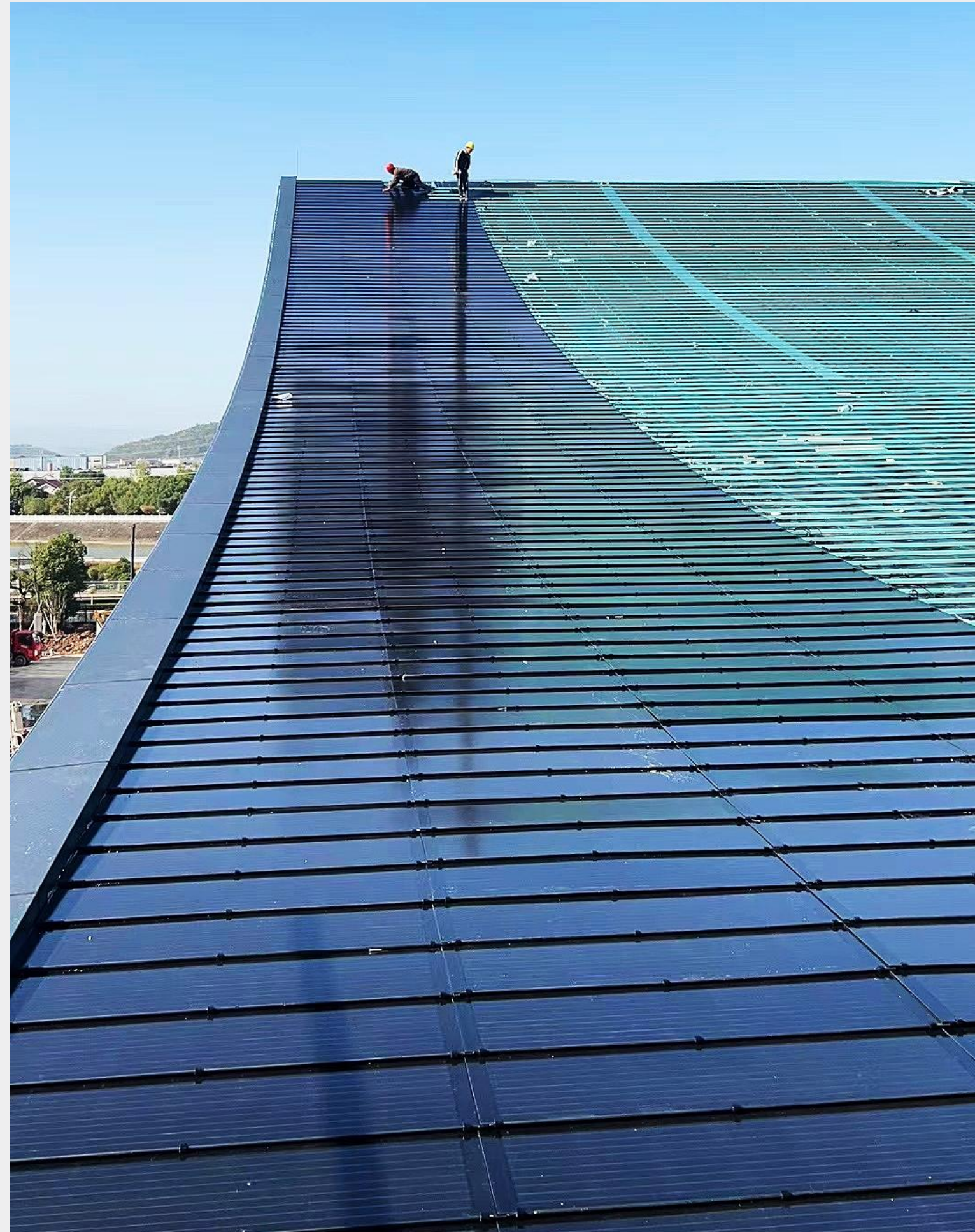


After _Aesthetic solar roof

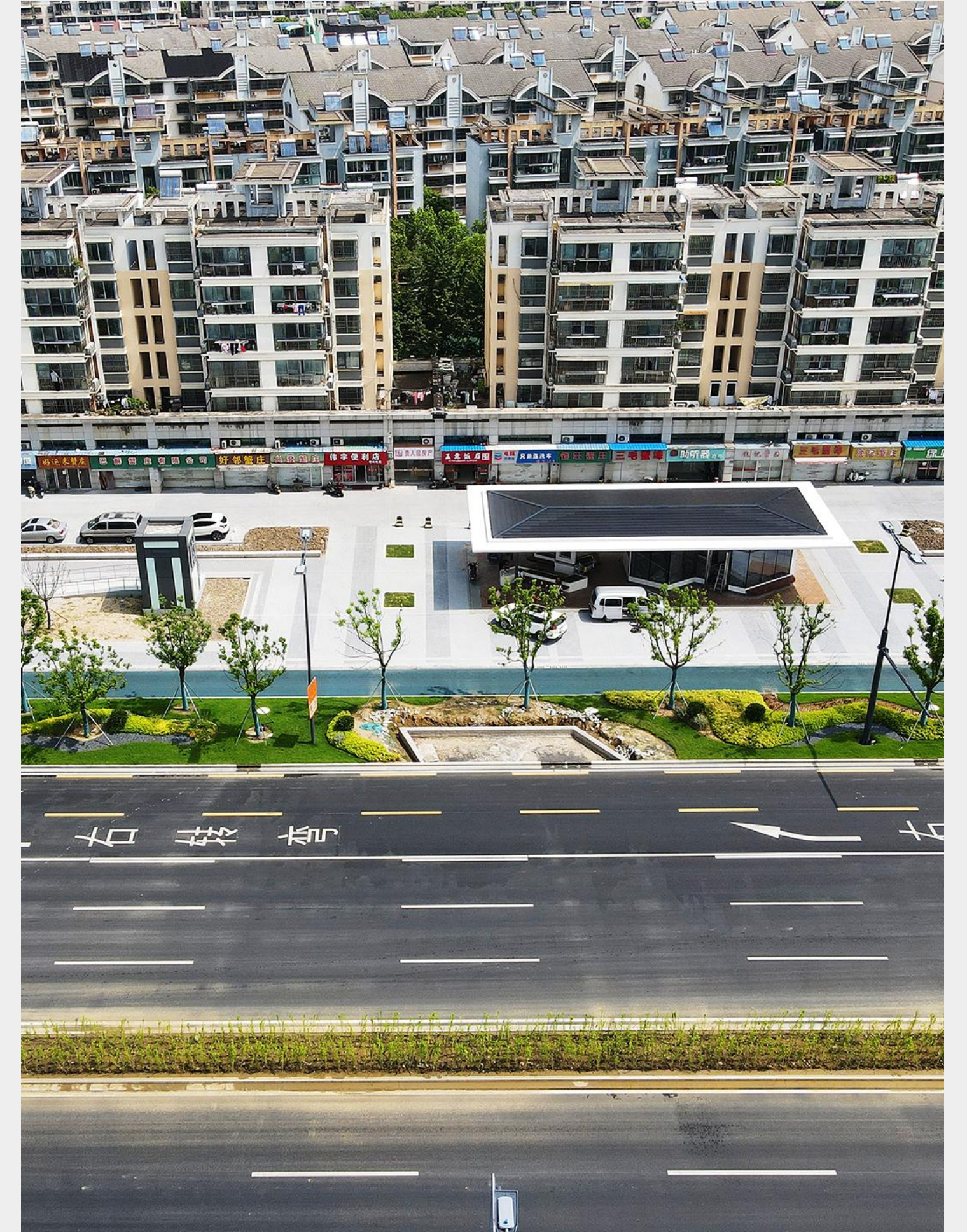
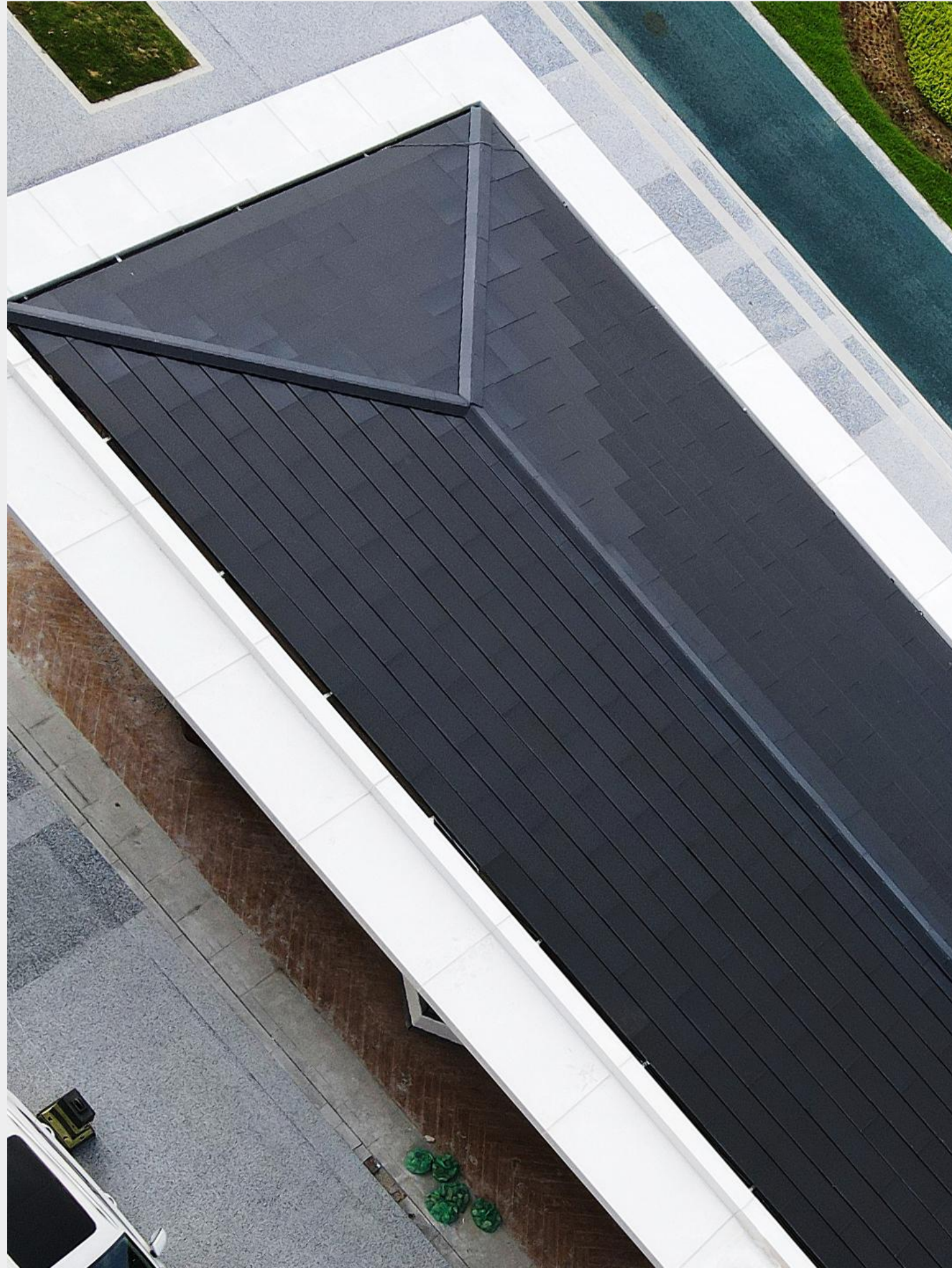
Project case



Project case



Project case



A 3D architectural rendering of a modern building with a complex, multi-level roof. The building is shown in a light gray, semi-transparent style, revealing its internal structure. The roof is covered with solar panels, and several solar inverters are visible on the roof's surface. The background is a plain, light gray.

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Pro /Plus /Max /P135

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