



# **Building Integrated Photovoltaics**





Tranditional solar roof: ceramic+solar panel

BIPV Roof: Solar roof tiles



#### Products Introduction — Flat Solar Roof Tile

Structure: Double side glass

Shape: Flat

Demension (L) 1460\*(W)435\*(T)21mm

: Qty/m: 2 pcs/m Power: 95Wp/pc Power/m: 190Wp/m

Weight:

Weight: 12Kgs
Above parameters have been approved by relevant experts



Model No.	HX-ST03	
MaxPower/ pc[ W]	95W	
MaxPower/ n[ W]	190W	
Voc[V]	31.06V	
Isc[A]	3.96 A	
Vpm[V]	26.46 V	
lpm[A]	3.59 A	
Size-L*W*H[mm]	1460*435*21(±1) mm	
Thickness[ mm]	7.5(±1)mm	
Weight/ pc[ kg]	12 (±0.5) kgs	
Weight/ n[ kg]	24 (±0.5) kgs	
Front Cover	Ultra Clear Tempered Glass	
Back Cover	Ultra Clear Tempered Glass	
Frame	Aluminium Alloy	
Junction box	IP8 7 , MC4 connector	
Color	Zero Carbon Black	



# **Products Introduction**

Structure: Double side glass

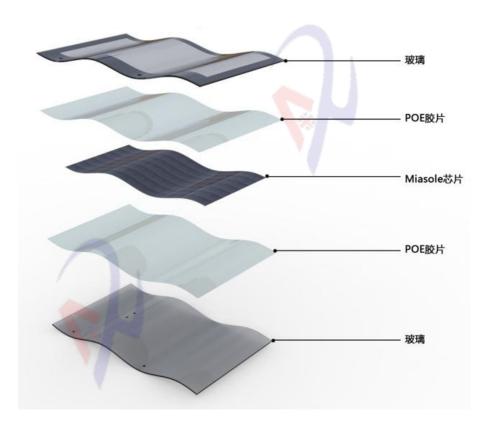
Shape: Curved, Height: 41mm

Demension: (L) 709x (W) 500x (T) 7mm

Qty/m<sup>2</sup>: 3.48pcs/m<sup>2</sup>
Power: 30 Wp/pc
Power/m<sup>2</sup>: 104Wp/m<sup>2</sup>
Weight: 6.5Kgs

Above parameters have been approved by relevant experts







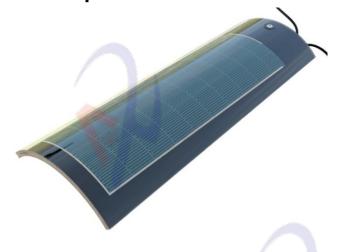
# **Products Introduction**

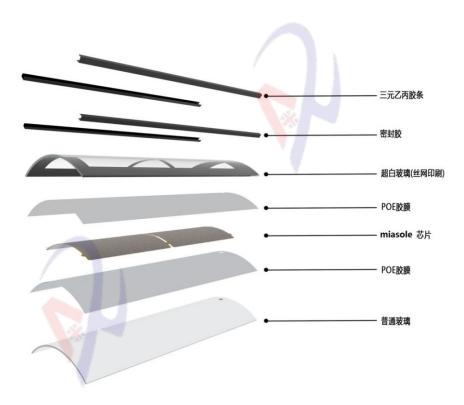
Structure: Double side glass

Shape: Arched, Height: 70mm Demension: (L)720\*(W)224\*(T)7mm

Qty/m<sup>2</sup>: 5.28pcs/m<sup>2</sup>
Power: 11.5 Wp/pc
Power/m<sup>2</sup>: 63 Wp/m<sup>2</sup>
Weight: 4.5Kgs

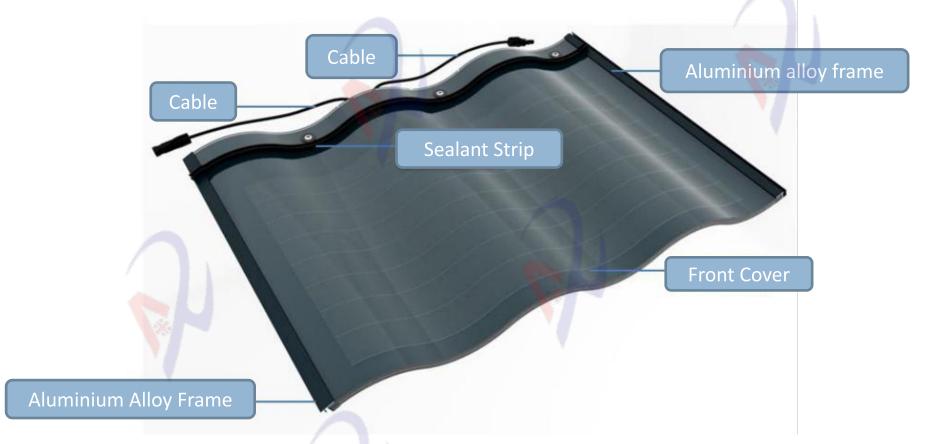
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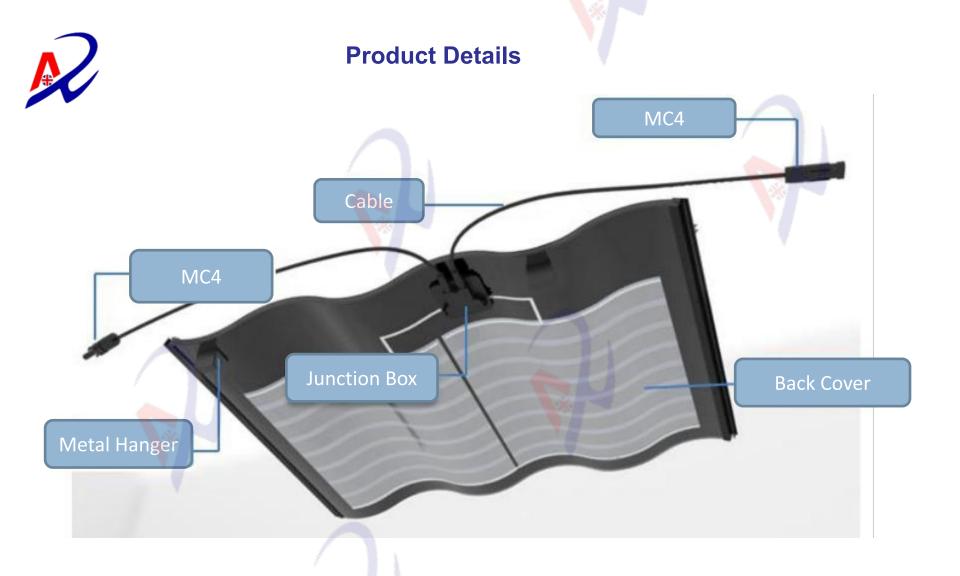






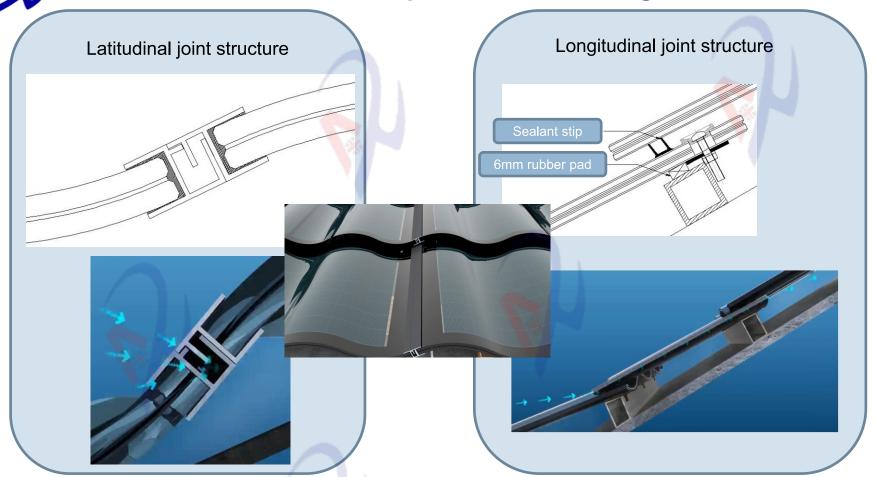
### **Product Details**







### **Creative Water-proof Structure Design**





### **Products Test and Approved**

#### **Double 85 Test:**

Under the condition of temperature 85°C and humidty 85%, it has acheived perfect performance.

#### TC200 Test:

Under the condition of temperature between -40°C and 85°C, it has passed the test for tolerance to extreme temperature.

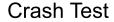
#### **HF Test:**

Under both conditions of temperature between 25°C and 85°C with the humidity 85% and temperature between -40°C and 25°C with humidity 0%, it has acheived great performance.

#### **Hail Resistence Test:**

It has passed hail resistence test.







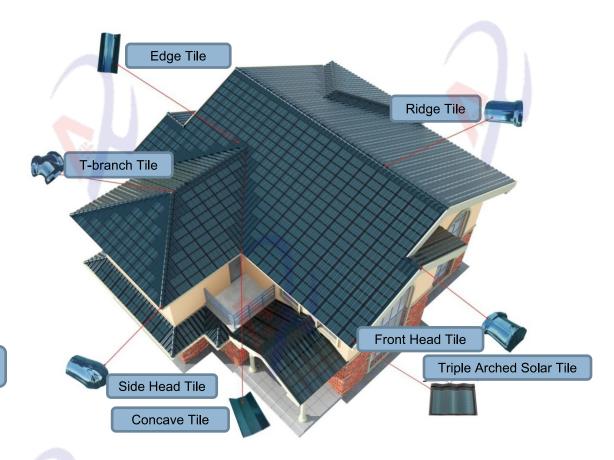
Also we have got TUV certificate for our products.



### **Solution For Solar Roof System**



Private Mode Edge Tile





#### List of All kinds Tile for Solar Tile Roof System

Triple Arched	Demension		
Solar Tile	500mm (L) *710mm (W) *40mm (H)		
Edge Tile	Demension		
	500mm (L) *245mm (W) *40mm (H)	2	
Ridge Tile	Demension		
	280mm (L) *200mm (W) *65mm (H)		
T-branch tile	Demension		
	150mm(L)*200mm(W)*65mm(H)	W.	
Front Head Tile	Demension		
	250mm(L)*200mm(W)*6 <mark>5mm</mark> (H)		
Concave Tile	Demension		
	390mm(L)*230mm(W)*45mm(H)		
Side Head Tile	Demension		
	300mm (L) *185mm (W) *65mm (H)		



# **Part of our Project Case**

Product: Curved Tiles

Installed Capacity: 15KW







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Product: Curved Tiles

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Product: Curved Tiles

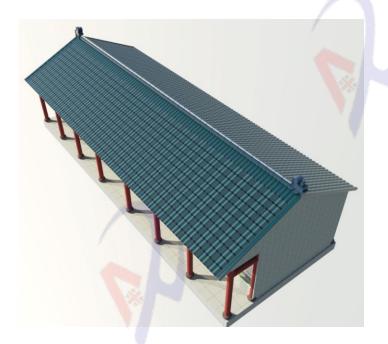
Installed Capacity: 15KW





# **The Solar Roof Tiles Solution**

The south face: Solar Roof Tiles



The north face: Tranditional Tiles

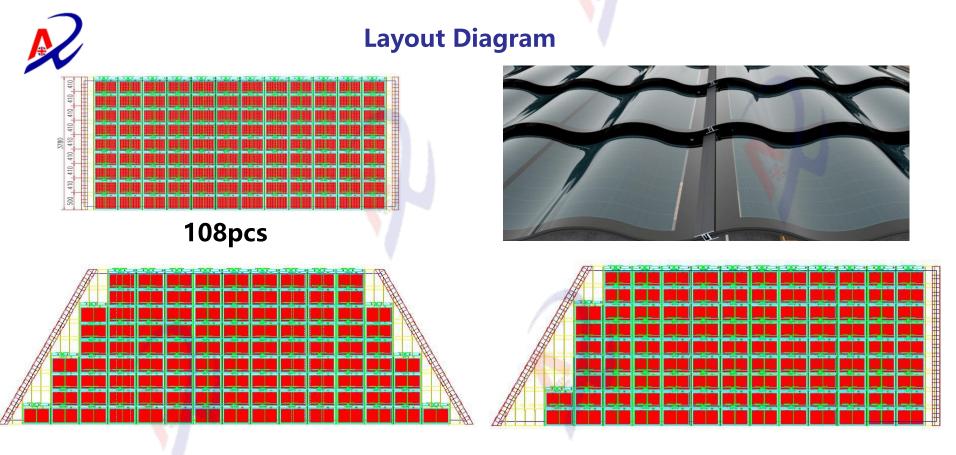




# **Comparision Before and After the Installation**



After Installation

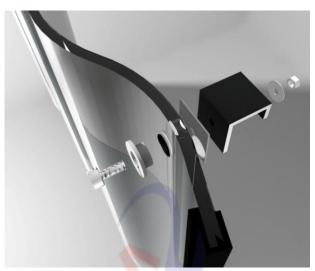


105pcs 108pcs

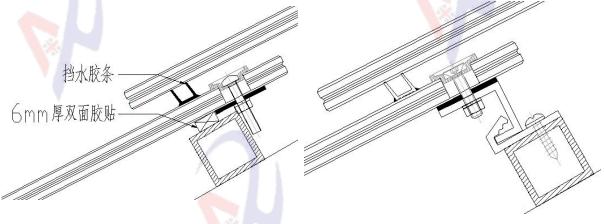
You provide the drawing of roof, we can afford the layout for you.

#### **Installation Constructure**

The installation system of our products can resist the 15 grade typhoon



The hook installation indication



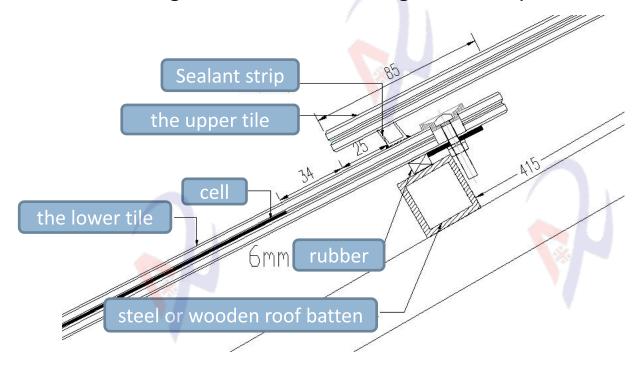
The first case: Angle of roof: 15°-40° The second case: Angle of roof: 40°-75°

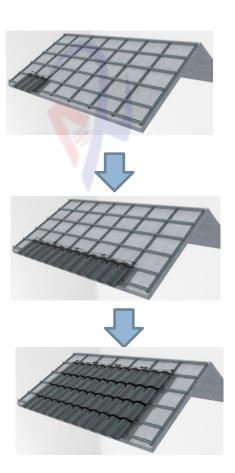


# The Sequece of Installation

Sequence of Installation:

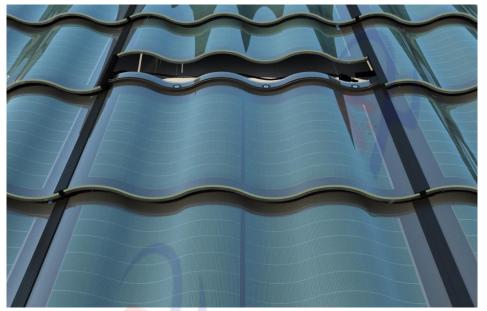
From left to right, from the lower edge to the top.

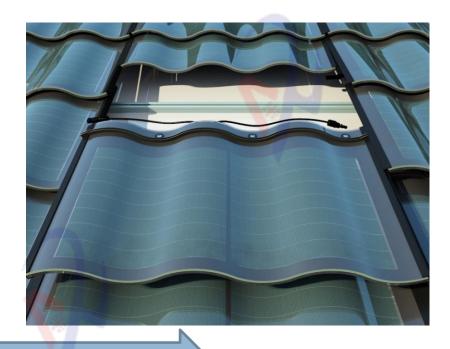






# **Installation-Replacement**



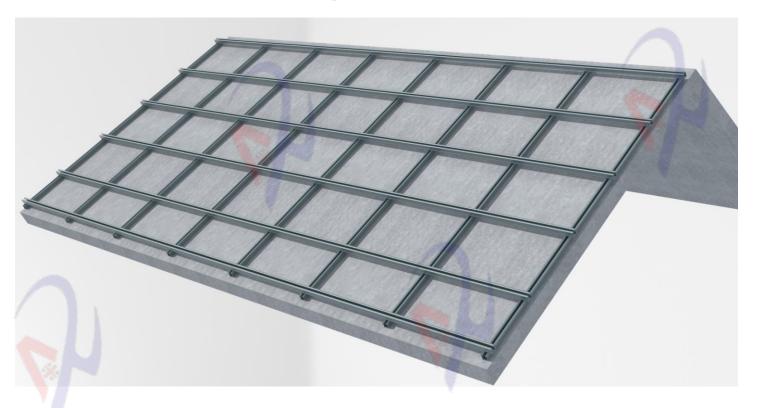


push up the upper one of the replaced tile

take off the replaced tile



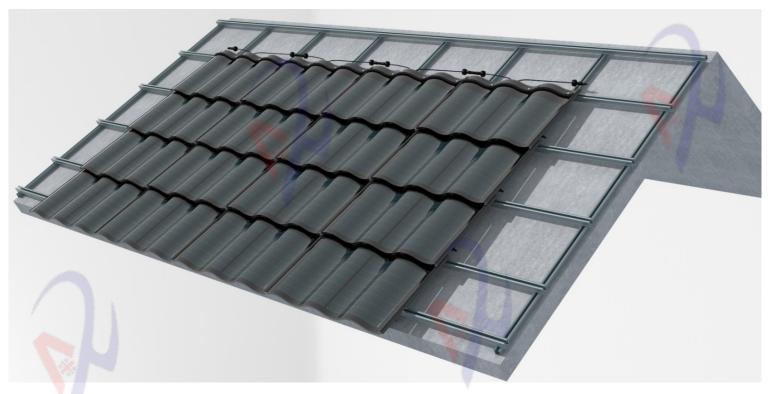
# **Installation Steps of Concrate Roof**



**Step 1: Surveying and setting out**, fix the frame

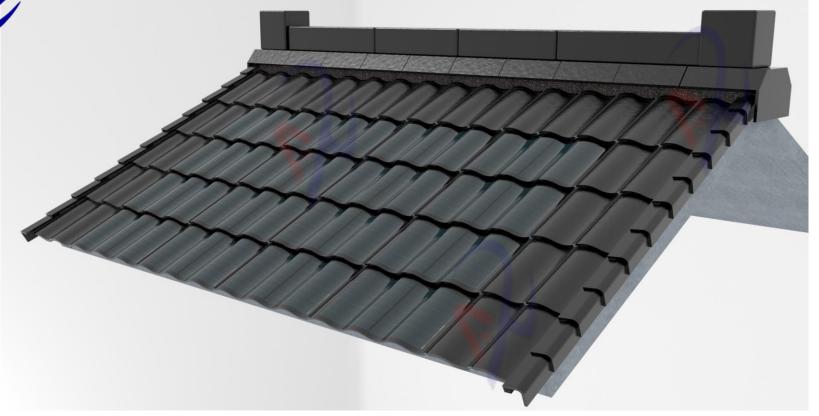


## **Installation Steps of Concrate Roof**

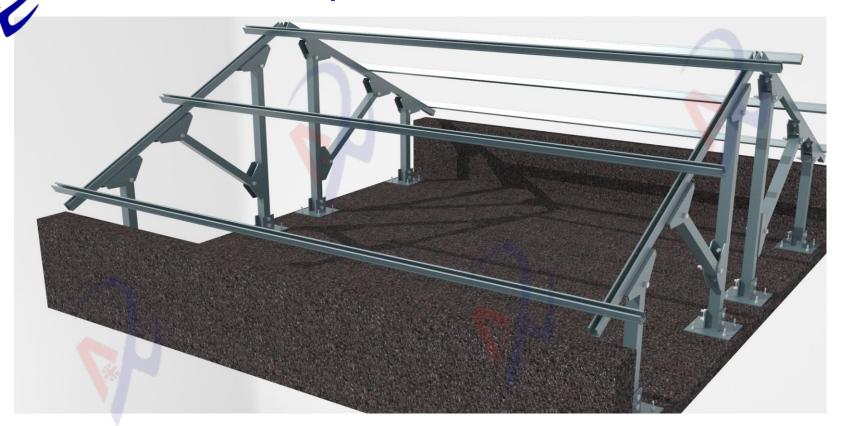


Step 2: Lay the tiles, put the first row over the lower roof edge about 50-70mm



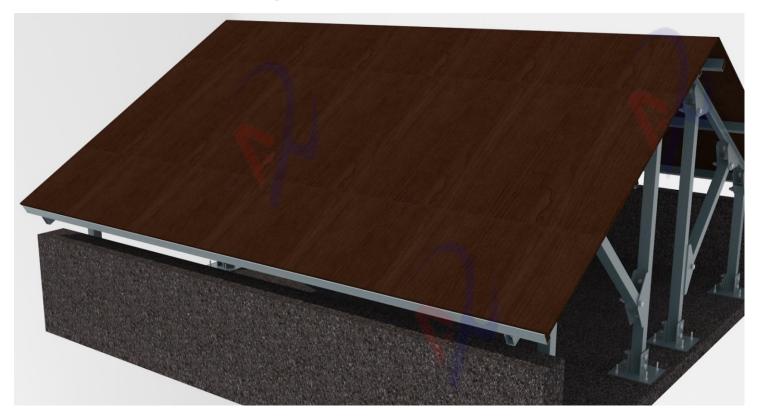


**Step 3: Install the edge tile and ridge tile** 



**Step 1: Set up the Steel Skeleton** 





**Step 2: Paving the wooden board** 





Step 3: Cover the steel sheet roof on the wooden board





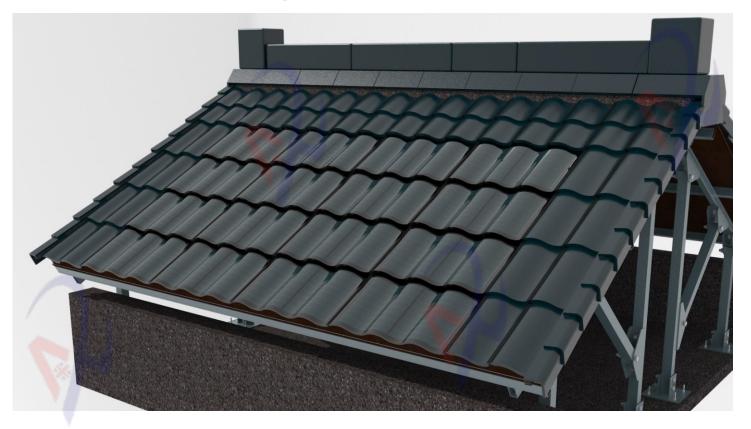
**Step 4: Fix the steel frame** 





Step 5: Lay the tiles, put the first row over the lower roof edge about 50-70mm





**Step 6: Install the edge tile and ridge tile**