



SCM SOLAR INTEGRATED ROOF METHODOLOGY

MATERIALS

SCM STONE COATED METAL ALUM-ZINC ROOFING TILE

SHINGLE TILE

Available Colors: Black, Gray, Brown, Arctic Blue

Panel Size: 1340mm x 420mm

Installed Exposure: 1290mm x 370mm





SCM SOLAR INTEGRATED ROOF



PHYSICAL PARAMETERS

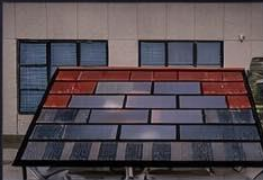
Color	Black (JS80C-26),
Dimensions	1340 × 420mm
Effective Size	1260 × 370mm
Power Output	80W
Weight	6.5kg
Solar Cell Type	166°83mm(2°13) cells
Junction Box	≥IP67
Cable Type	900mm / 4mm ²
Glass Material / Thickness	Tempered glass 3.2mm + Backsheet
Plug Connector	MC4
Life Span	>30 years

TECHNICAL / OPERATING CONDITIONS

Max. system voltage	1500Vdc
Max. series fuse rating	16A
Operating temperature range	-40°C ~+85°C
Max. static load (front)	5400Pa
Max. static load (back)	2400Pa
Max. hailstone impact diameter /	25mm / 23m/s



Installed Application



Product Sample

☎ 09304968136, 09171105517, 09177062924

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✉ scmroofingsales@gmail.com

MATERIALS (cont.)

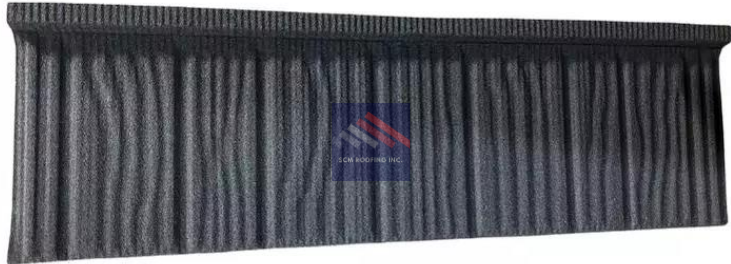
SCM STONE COATED METAL ALUM-ZINC ROOFING TILE

WOOD TILE

Available Colors: Black, Gray, Brown

Panel Size: 1340mm x 420mm

Installed Exposure: 1290mm x 370mm





SCM SOLAR INTEGRATED ROOF



PHYSICAL PARAMETERS

Color	Black (JS80C-26),
Dimensions	Rled, (JS6CB-26)
Power Output	80W
Weight	6.5kg
Solar Cell Type	166*83mm(2*13)cells
Junction Box	>IP67
Cable Type	900mm / 4mm ²

TECHNICAL / OPERATING CONDITIONS

Max. system voltage	1500Vdc
Max. series fuse rating	16A
Operating temperature range	-40°C -+85°C
Max. static load (front)	5400Pa
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Installed Application



Product Sample



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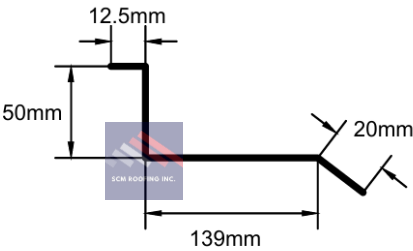
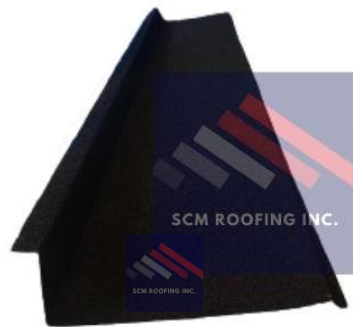


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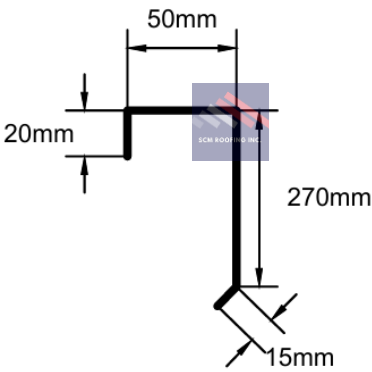
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BENDED MATERIALS

BARGE WALL FLASHING



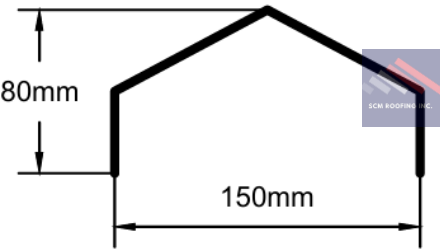
BARGE END FLASHING



BENDED MATERIALS (cont.)

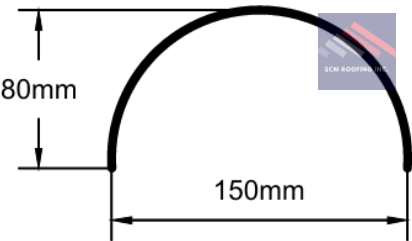
ANGLE RIDGE

Applicable for Shingle Tile and Wood Tile.



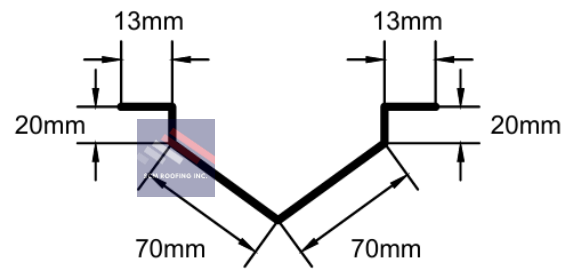
ROUND RIDGE

Applicable for Roman Tile only.

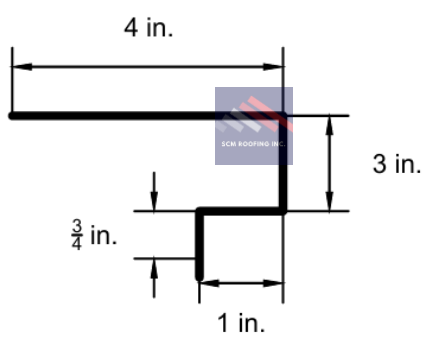


BENDED MATERIALS (cont.)

VALLEY TRAY

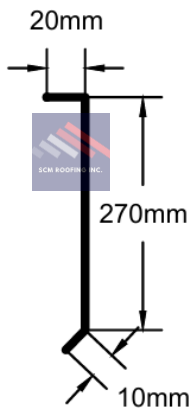


EAVES COVER



BENDED MATERIALS (cont.)

FASCIA COVER





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Website: <https://www.scmroofinginc.com> | Email: scmroofinginc@gmail.com

NEW METAL SHINGLE



SHINGLE TILE



Product: Stone Coated Metal Aluminum
Zinc - New Zealand
Profile: New Metal Shingle
Size: 1340mm * 420mm
Installed Exposure: 1290mm * 370mm

Tiles per Square Meter: 2.08 sheets
Installed Weight: 2.80 kgs per sheet
Color: Arctic Blue, Black, Brown Black, Green Black, Terracotta
Special Color: Two (2) Tone available upon request - MOQ 1000 pcs + Freight - Shipping

WOODSHAKE



WOOD TILE



Product: Stone Coated Metal Aluminum
Zinc - New Zealand
Profile: Woodshake
Size: 1340mm * 420mm
Installed Exposure: 1290mm * 370mm

Tiles per Square Meter: 2.08 sheets
Installed Weight: 2.80 kgs per sheet
Color: Arctic Blue, Black, Brown Black, Green Black, Terracotta
Special Color: Two (2) Tone available upon request - MOQ 1000 pcs + Freight - Shipping

ROMAN



ROMAN TILE



Product: Stone Coated Metal Aluminum
Zinc - New Zealand
Profile: Roman
Size: 1300mm * 420mm
Installed Exposure: 1250mm * 370mm

Tiles per Square Meter: 2.16 sheets
Installed Weight: 3 kgs per sheet
Color: Arctic Blue, Black, Brown Black, Green Black, Terracotta
Special Color: Two (2) Tone available upon request - MOQ 1000 pcs + Freight - Shipping

1. GENERAL GUIDANCE

1.1 Reference Document

The waterproofing of the roof should be in accordance with the local government's quality acceptance specification and technical specifications for roofing projects. The performance of solar tiles should be in accordance with the local safety appraisal of photovoltaic modules and the acceptance specification of photovoltaic power generation project. The performance of ventilated self-adhesive membrane and self-adhesive finished waterproofing membrane should be in accordance with local standards.

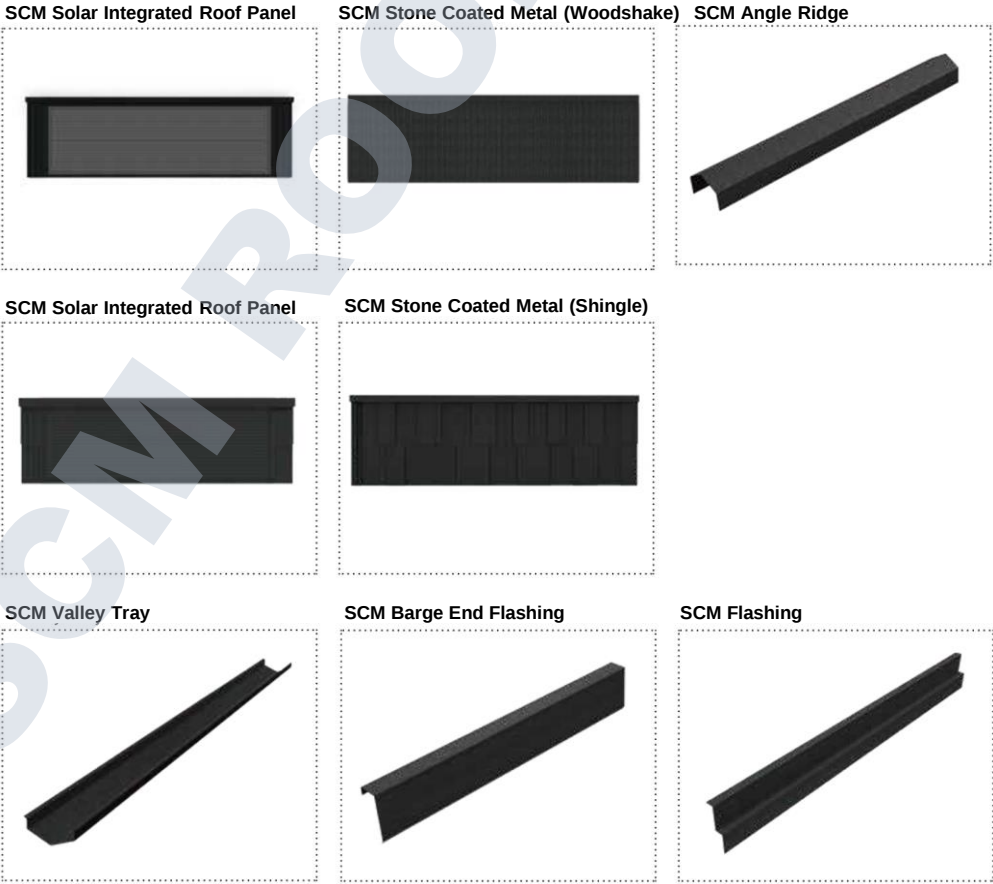
1.2 Requirements for Operators

Anyone installing the product should be trained in the correct manual handling of the product and must be trained in general construction site training and working at height safety. All relevant health and safety legislation should be correctly observed. Avoid installing the system in adverse weather conditions such as strong winds, rain, ice or snow.

1.3 Product Description

The Solar tile is roofing material that integrates photovoltaic technology with construction and is suitable for single or multi-slope roofs with slopes greater than 15 degrees and less than 60 degrees. As a roofing material, it not only matches the style of the building itself, but also replaces the traditional tile material and is endowed with the function of generating electricity, making the building itself zero carbon in the true sense.

1.4 List of Roofing Materials

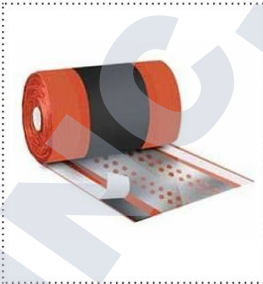


1.5 List of Other Accessories

Battens



SCM Repair Kit



2. INSTALLATION PREPARATION

2.1 Construction Method

Prior to the installation of the system, it is necessary to determine the final system location for solar tiles and accessory tiles to be used in conjunction according to the layout guide and installation instruction manual designed by SCM Roofing Inc.

2.2 Preparation



Hand Drill



Cutting Saw



Angle Grinder



Welding Machine



Cutter



Folding Pliers



Tape Measure



Tape Measure



Battens



Hammer



Level Ruler



Power Box with Leakage Protector



Glue Gun



Safety Hat



Temporary Cord



Safety Harness



Safety Goggles



Safety Vest



Broom



SCM SOLAR INTEGRATED ROOF



PHYSICAL PARAMETERS

Color	Black (JS80C-26),
Dimensions	1340 × 420mm
Effective Size	1260 × 370mm
Power Output	80W
Weight	6.5kg
Solar Cell Type	166°83mm(2*13) cells
Junction Box	≥IP67
Cable Type	900mm / 4mm ²
Glass Material / Thickness	Tempered glass 3.2mm + Backsheet
Plug Connector	MC4
Life Span	>30 years

TECHNICAL / OPERATING CONDITIONS

Max. system voltage	1500Vdc
Max. series fuse rating	16A
Operating temperature range	-40°C ~+85°C
Max. static load (front)	5400Pa
Max. static load (back)	2400Pa
Max. hailstone impact diameter /	25mm / 23m/s



Installed Application



Product Sample



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2.3 Pre-Installation

Personnel assigned with the installation must familiarize themselves with the overall layout according to the rooftop component layout drawings provided by the owner to determine the position of the cables into the roof. Following inspections should be made before installation.

The surface of solar tiles and components are intact and the quantity is consistent with the bill of materials.

- a. Installation tools are fully prepared, including multimeter.
- b. All relevant sit requirements have been checked and authorized.
- c. Ensure all cable connectors are dry and free of dirt before installation.

Confirmation of the cable connection method.

Connect the solar tiles in series according to the layout diagram to the special PV cable pre-laid on the roof, and connect the other side of the cable to the inverter.

2.4 Roof Preparation

2.4.1 Roof Type

The SCM Solar Integrated Roof is applicable to steel-structures roof, concrete roof, and wooden roof.



Steel-Structured Roof



Concrete Roof



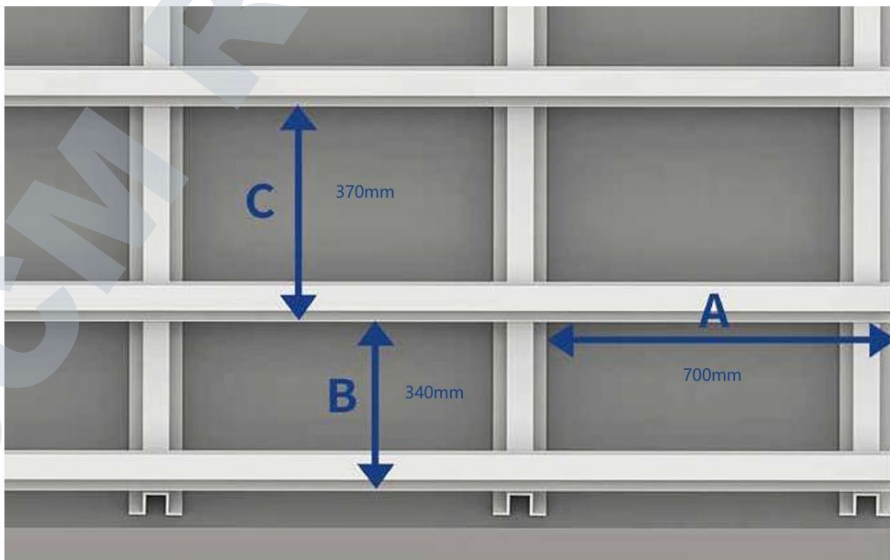
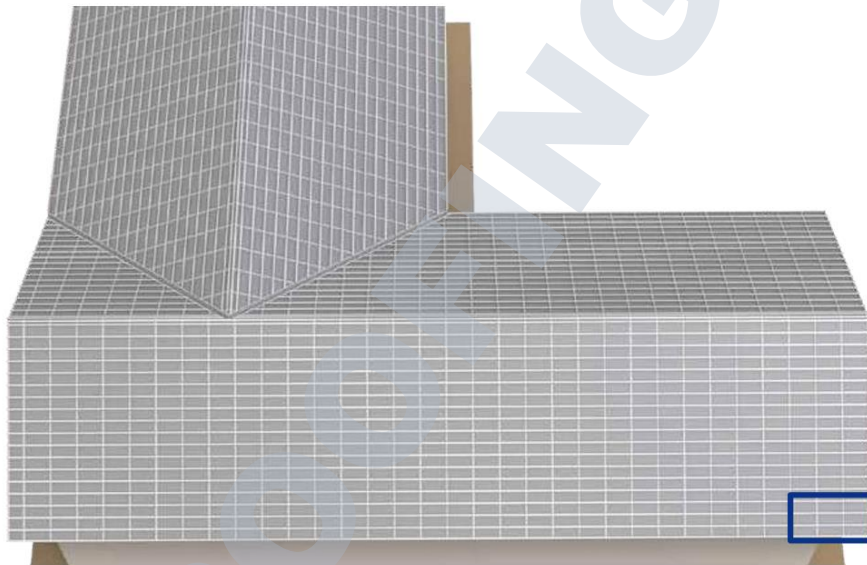
Wooden Roof

2.4.2 Slope Requirements

SCM Roofing Inc.'s Integrated Roof panels are suitable for roofs with slopes from 10 to 80 degrees. For roofs with slopes outside of this range, please consult with SCM Roofing Inc.'s Engineering Department.

2.4.3 Counter Batten and Batten

Counter battens, placed underneath the battens, are the metal or wood strips that intersect perpendicularly with the battens to fix them, elevated the underside of the shingles, and facilitate roof ventilation, with a pitch of A (700mm). The use of battens is the most common practice of arranging the tiles on a sloping roof. In general, battens are installed on the roof, and the tiles are then fixed onto the batten. Counting from the bottom, the spacing B between the first and second battens = 340mm and the spacing C between the third and second battens = 370mm.





SCM SOLAR INTEGRATED ROOF



PHYSICAL PARAMETERS

Color	Black (JS80C-26),
Dimensions	Rled, (JS6CB-26)
Effective Size	1260 × 370mm
Power Output	80W
Weight	6.5kg
Solar Cell Type	166*83mm(2*13) cells
Junction Box	>IP67
Cable Type	900mm / 4mm ²
Glass Material / Thickness	Tempered glass, 3.2mm + Backsheet
Plug Connector	MC4
Life Span	>30 years

TECHNICAL / OPERATING CONDITIONS

Max. system voltage	1500Vdc
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Max. static load (front)	5400Pa
Max. static load (back)	2400Pa
Max. hailstone impact diameter / velocity 25mm / 23m/s	



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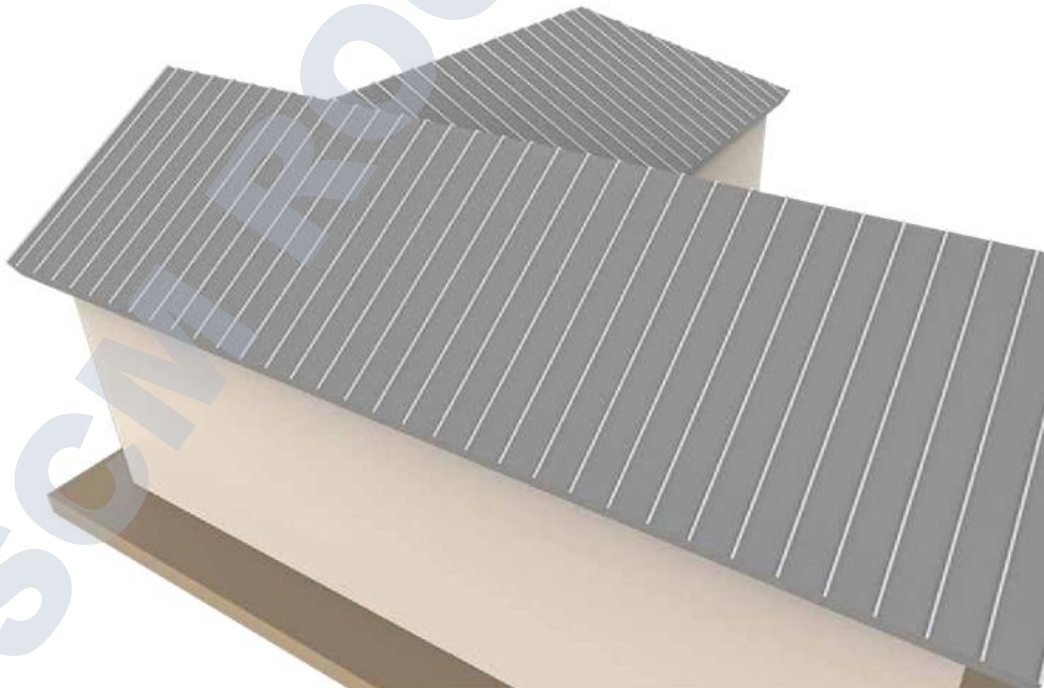
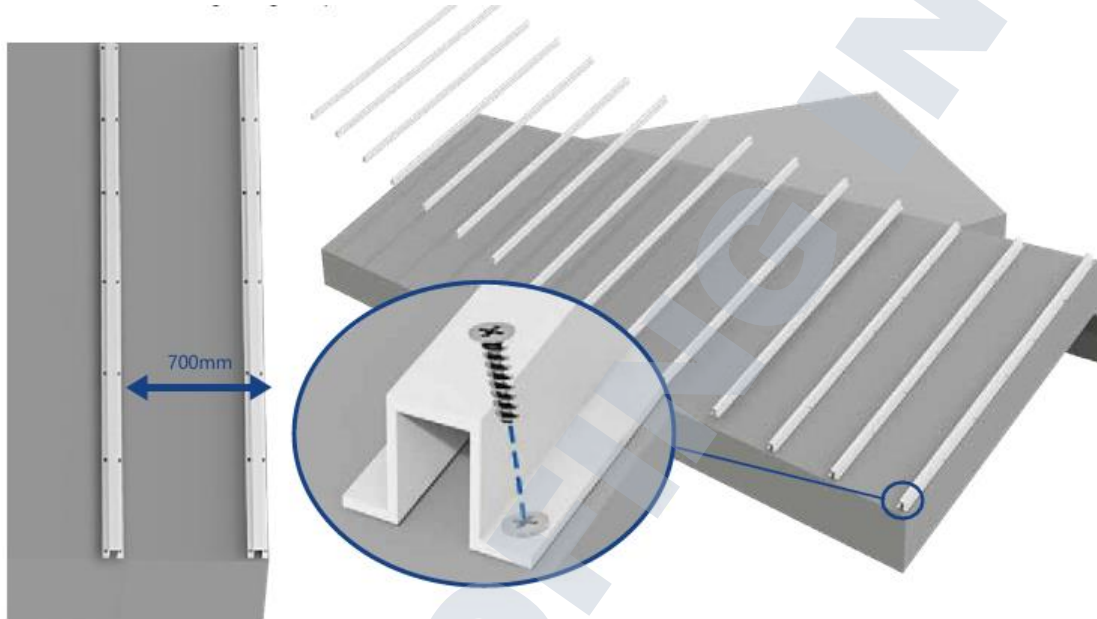


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3. INSTALLATION AND CONSTRUCTION

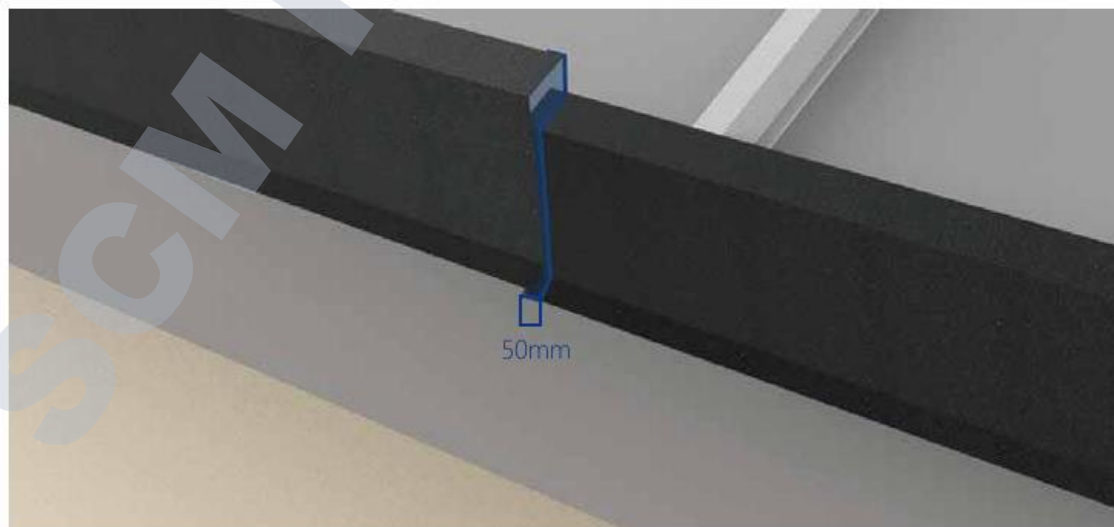
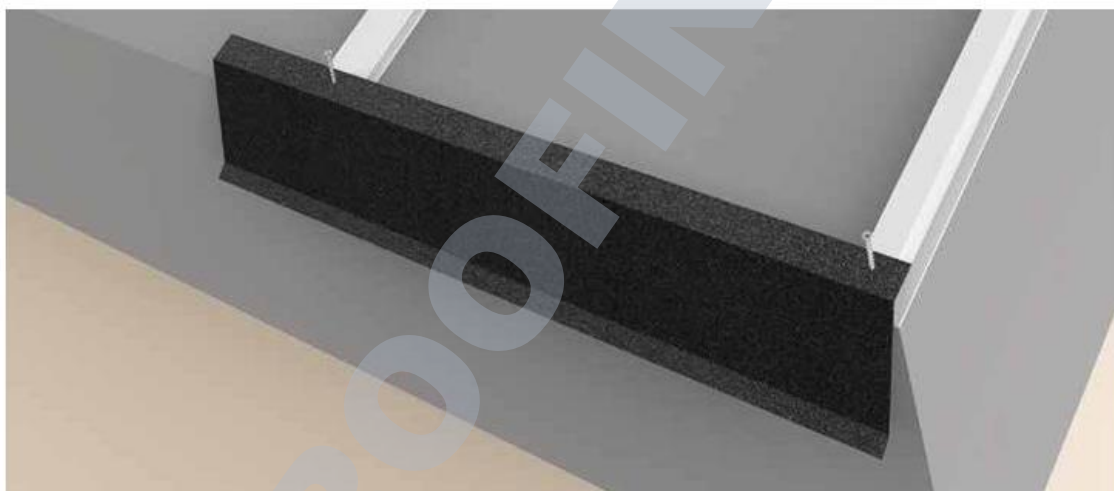
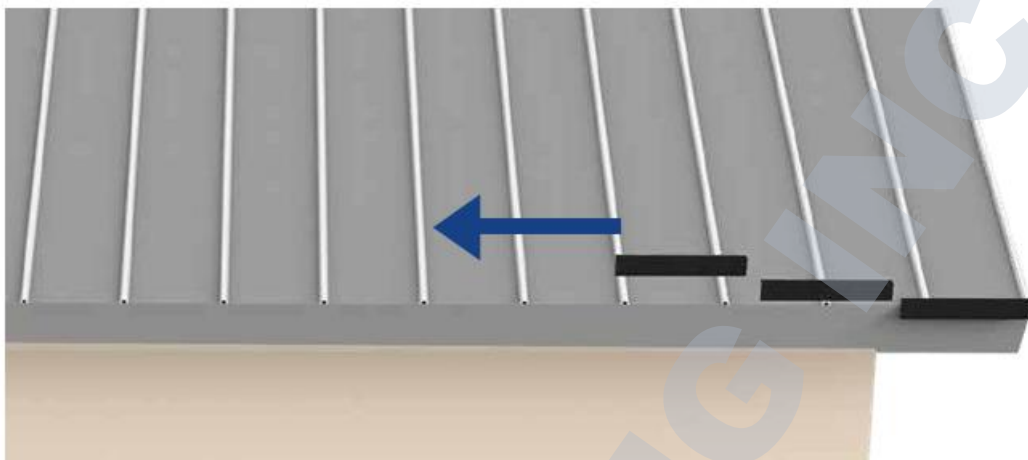
3.1 Fixing Counter Battens

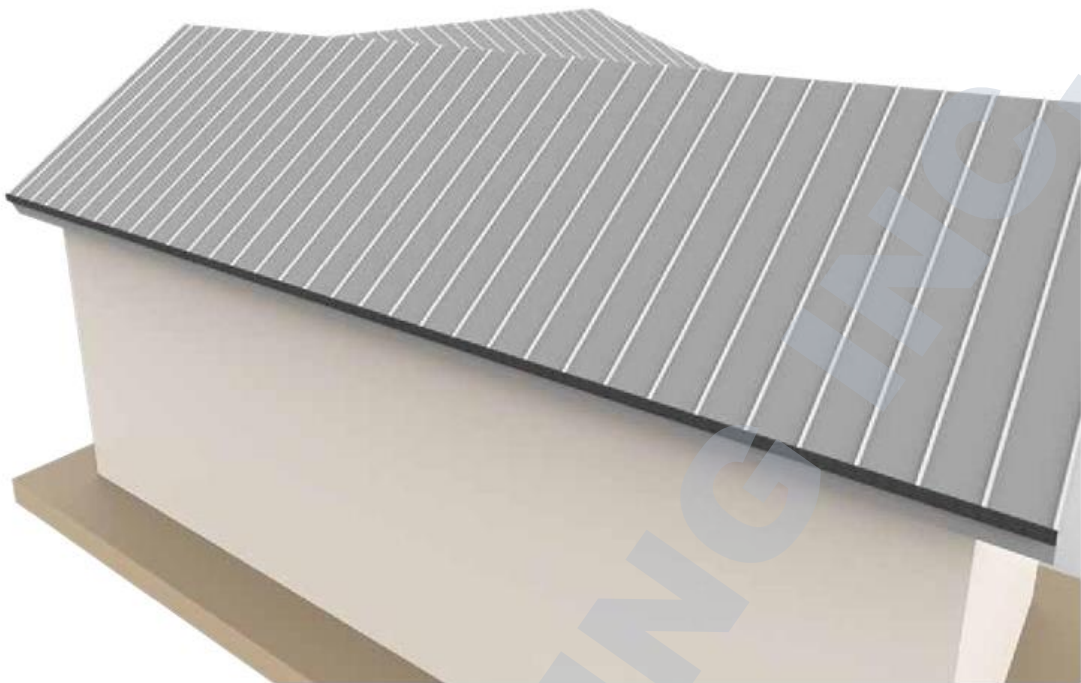
The Counter battens used in this manual is a 30*35*1mm omega-profile metal bar with 700mm spacing. Firstly, the installer will need to set out the area with twines for the counter batten installation, then install the counter batten and secure it with 8mm lightweight expansion bolts.



3.2 Installing Front Flashing

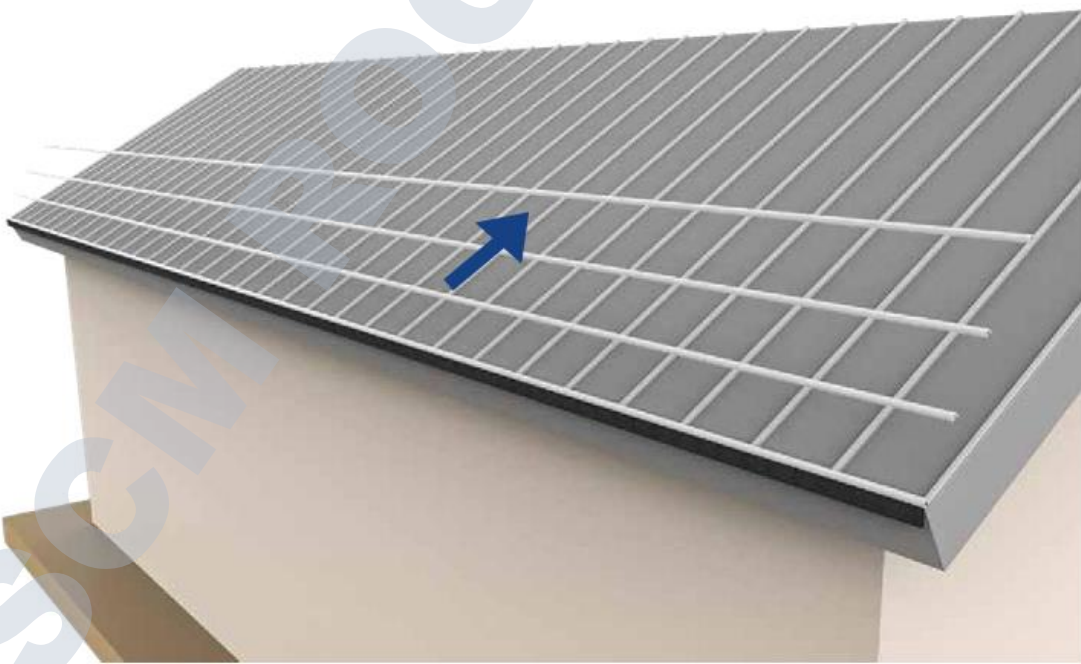
Place the flashing in sequence from one side to the other.

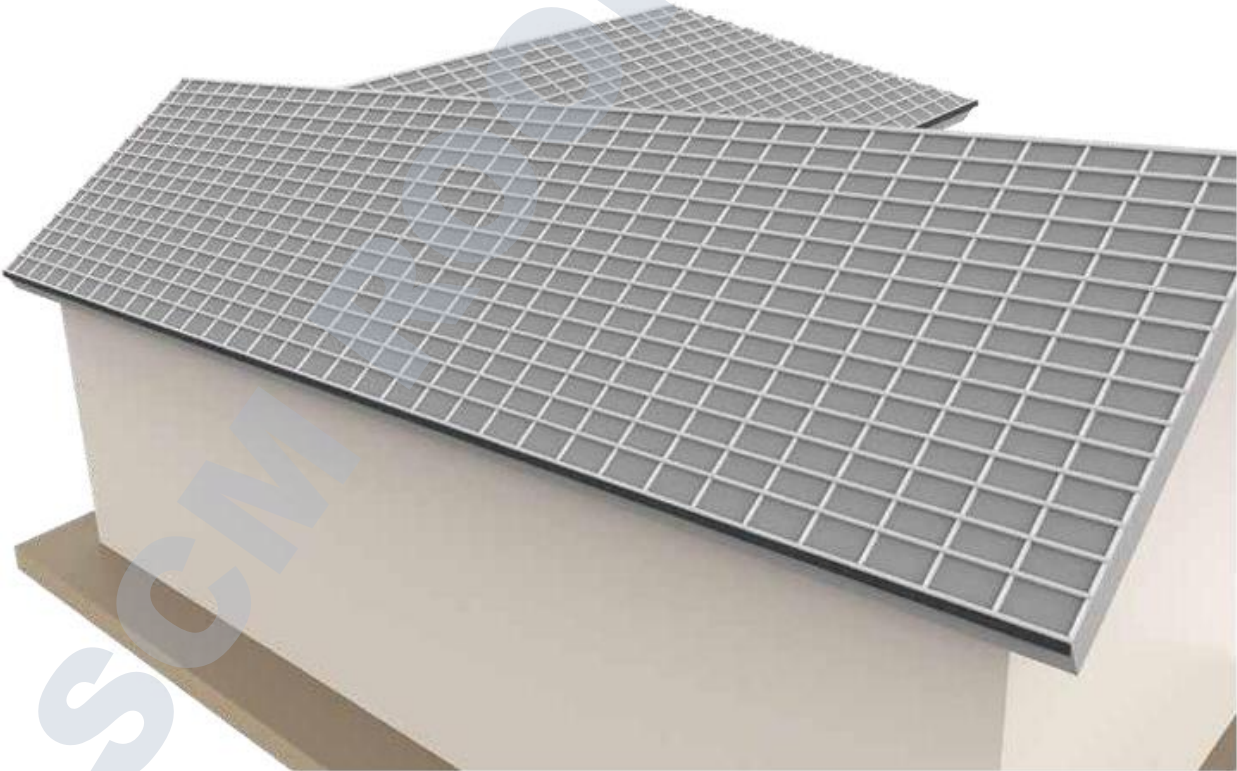
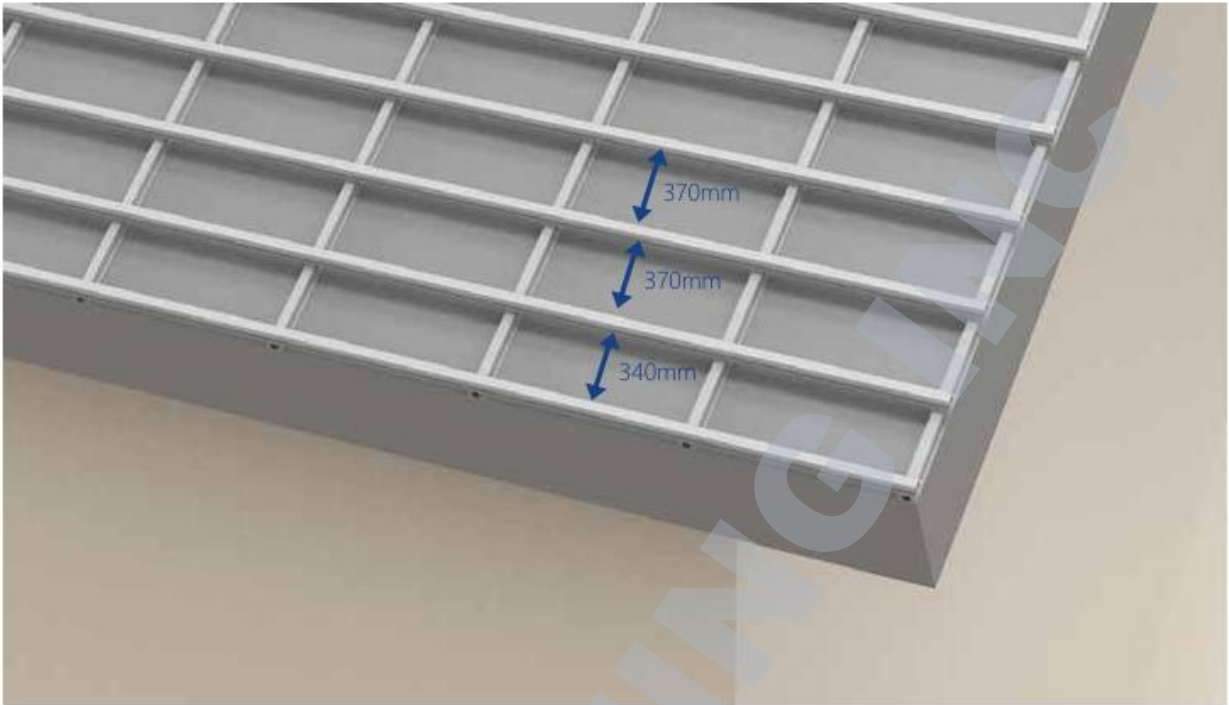




3.3 Fixing the Battens

To ensure that the battens are installed nice and even, it is necessary to check the battens while they are being installed and to correct any deviations in order to avoid any rework.







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Website: <https://www.scmroofinginc.com> | Email: scmroofinginc@gmail.com

NEW METAL SHINGLE



SHINGLE TILE



Product: Stone Coated Metal Aluminum
Zinc - New Zealand
Profile: New Metal Shingle
Size: 1340mm * 420mm
Installed Exposure: 1290mm * 370mm

Tiles per Square Meter: 2.08 sheets
Installed Weight: 2.80 kgs per sheet
Color: Arctic Blue, Black, Brown Black, Green Black, Terracotta
Special Color: Two (2) Tone available upon request - MOQ 1000 pcs + Freight - Shipping

WOODSHAKE



WOOD TILE



Product: Stone Coated Metal Aluminum
Zinc - New Zealand
Profile: Woodshake
Size: 1340mm * 420mm
Installed Exposure: 1290mm * 370mm

Tiles per Square Meter: 2.08 sheets
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ROMAN



ROMAN TILE

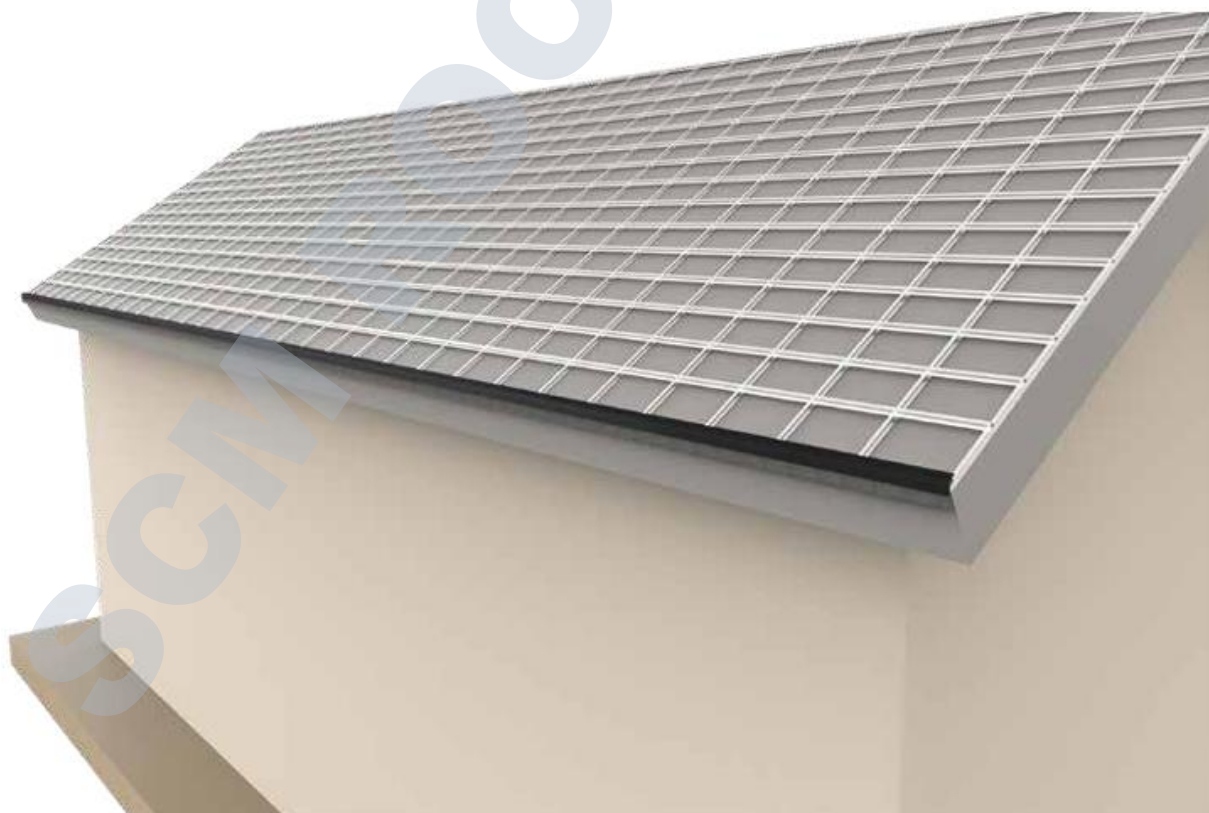
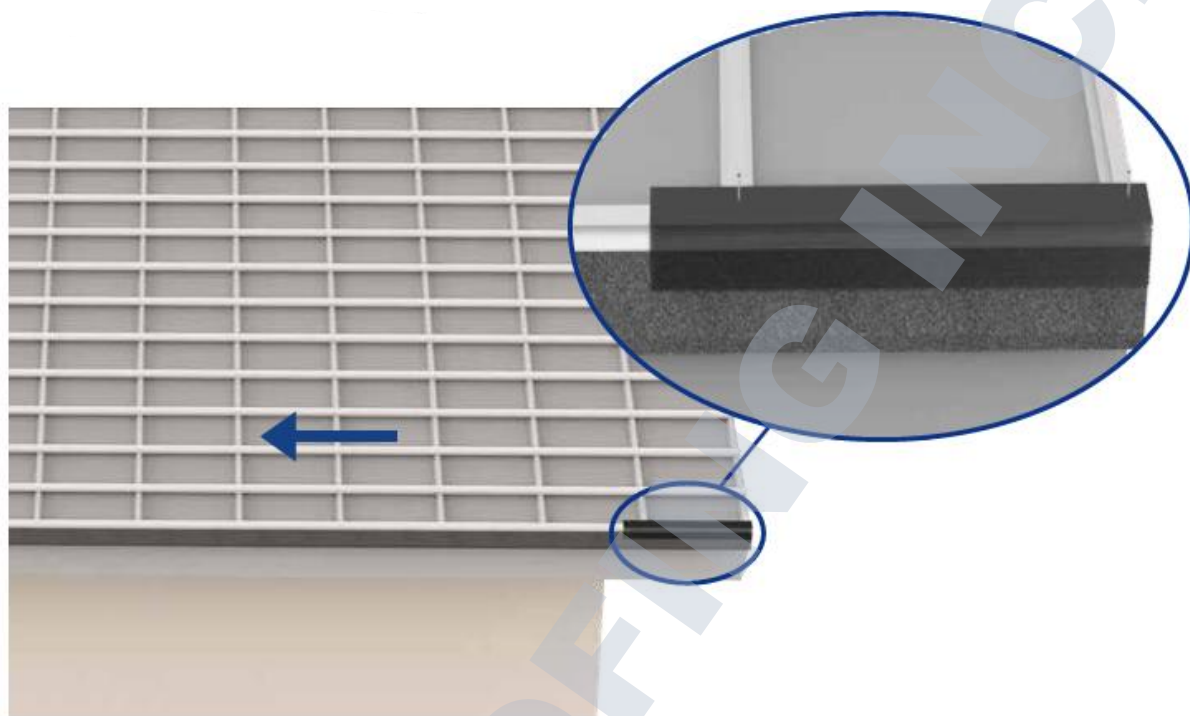


Product: Stone Coated Metal Aluminum
Zinc - New Zealand
Profile: Roman
Size: 1300mm * 420mm
Installed Exposure: 1250mm * 370mm

Tiles per Square Meter: 2.16 sheets
Installed Weight: 3 kgs per sheet
Color: Arctic Blue, Black, Brown Black, Green Black, Terracotta
Special Color: Two (2) Tone available upon request - MOQ 1000 pcs + Freight - Shipping

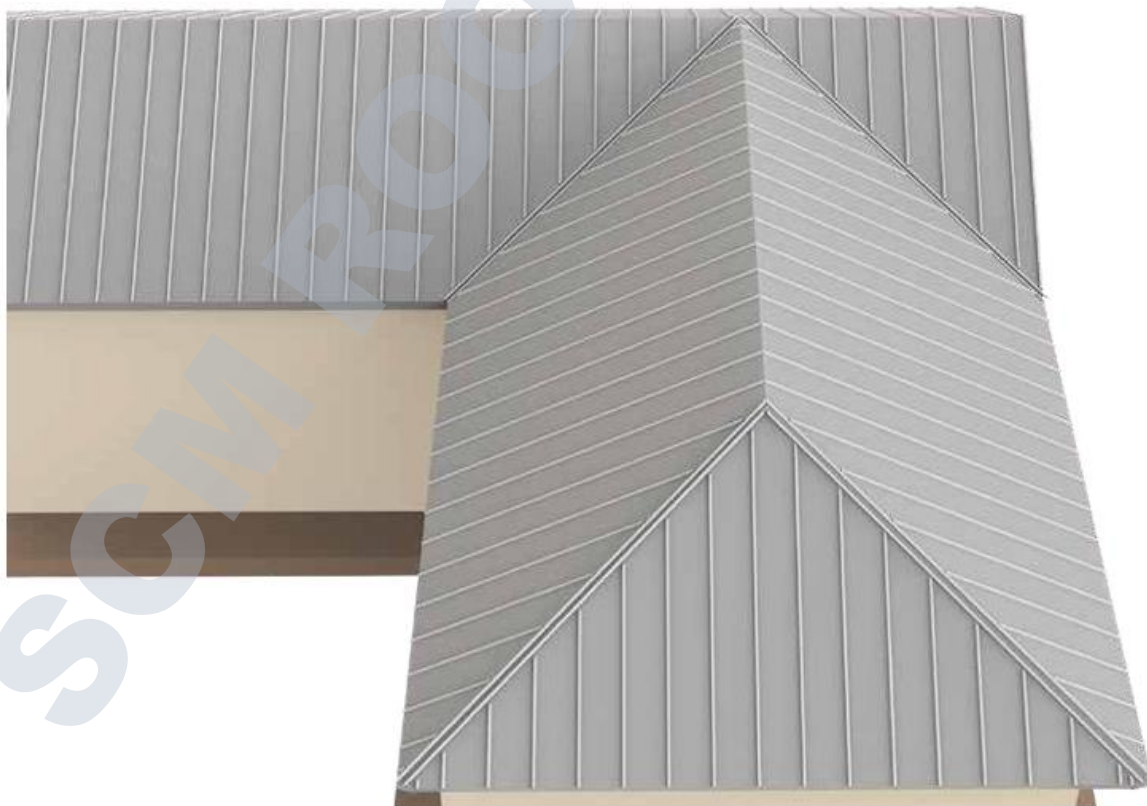
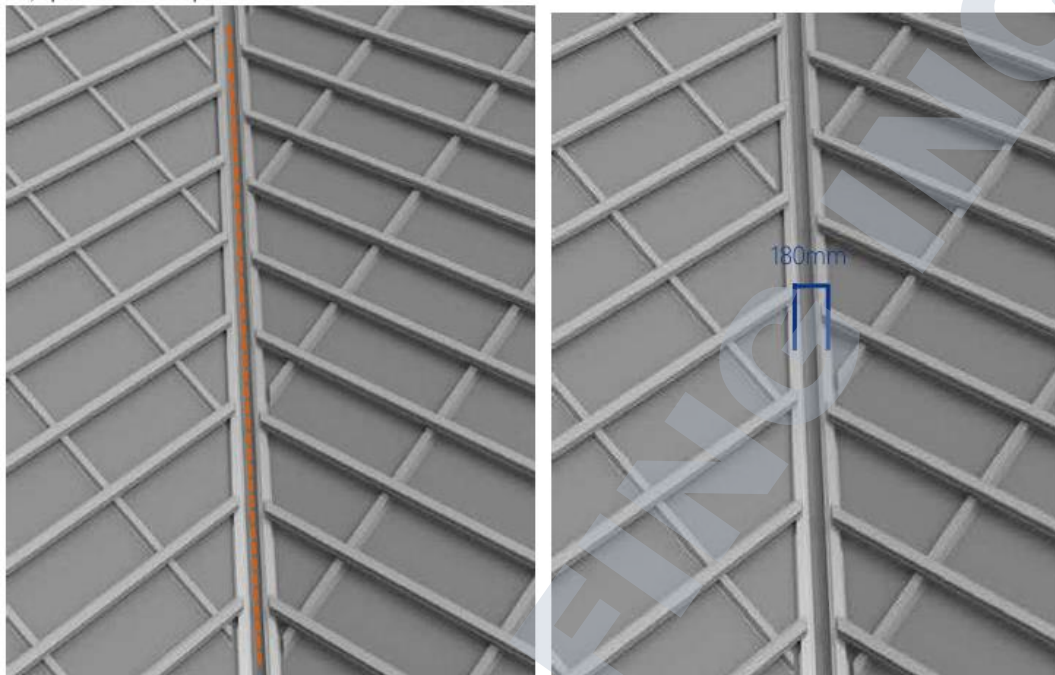
3.4 Installing Eaves Comb Filler

The installer will install the eaves comb filler in sequence from one side to the other, fix the joints with galvanized nails and finally cut off the excess length at the other end.



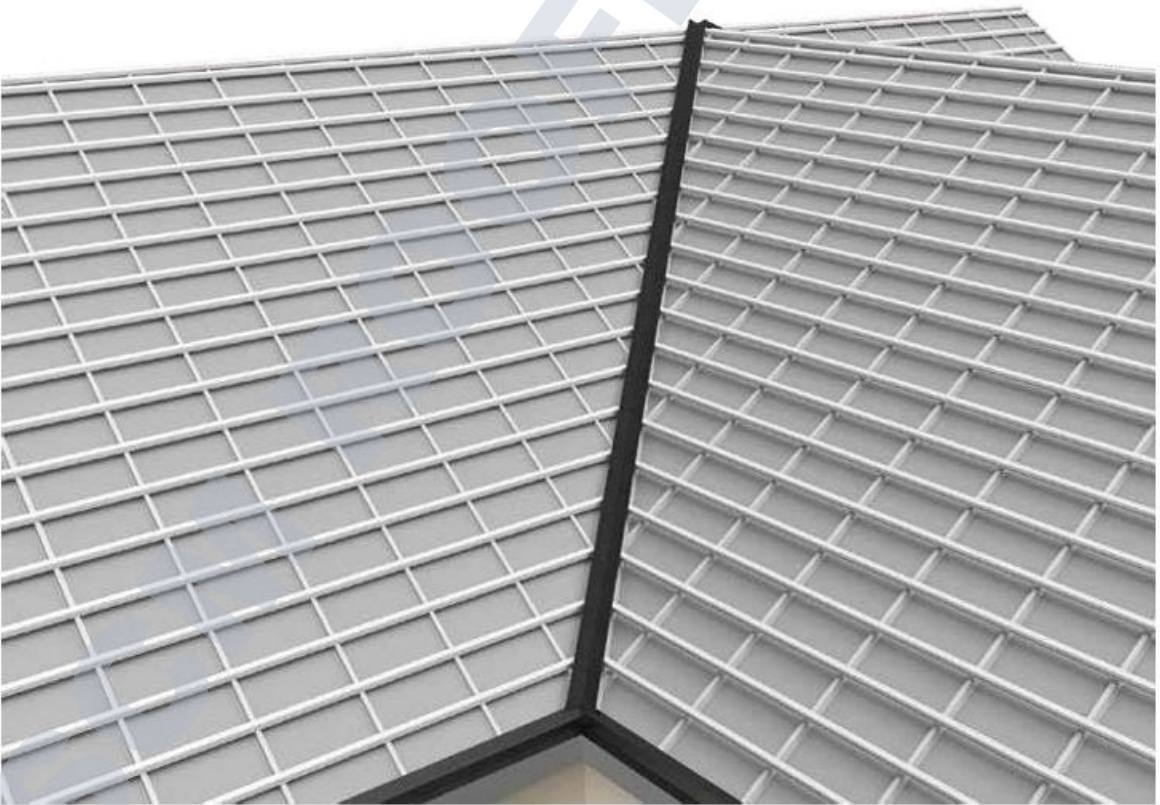
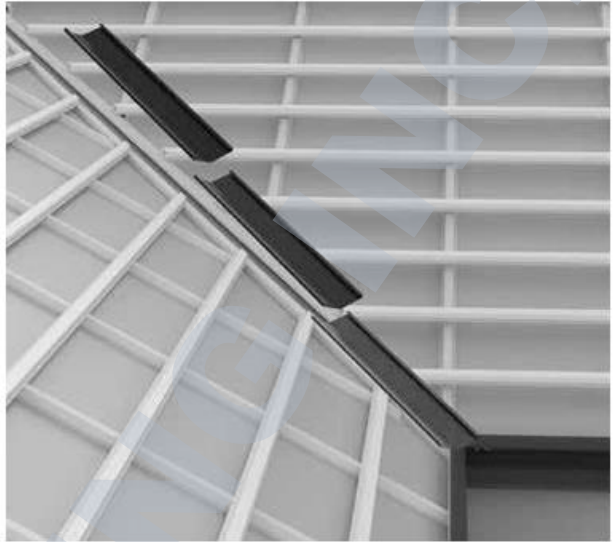
3.5 Installing the Valley Trays

On both sides of the ditch, two counter battens are installed in the same direction as the ditch, spaced 180mm apart.



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The ditch tiles will be installed on the valley and fixed to the batten, overlapping each other. It should get in line with the ditch.





SCM SOLAR INTEGRATED ROOF



PHYSICAL PARAMETERS

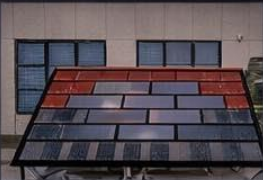
Color	Black (JS80C-26),
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Cable Type	900mm / 4mm ²
Glass Material / Thickness	Tempered glass 3.2mm + Backsheet
Plug Connector	MC4
Life Span	>30 years

TECHNICAL / OPERATING CONDITIONS

Max. system voltage	1500Vdc
Max. series fuse rating	16A
Operating temperature range	-40°C ~+85°C
Max. static load (front)	5400Pa
Max. static load (back)	2400Pa
Max. hailstone impact diameter /	25mm / 23m/s



Installed Application



Product Sample



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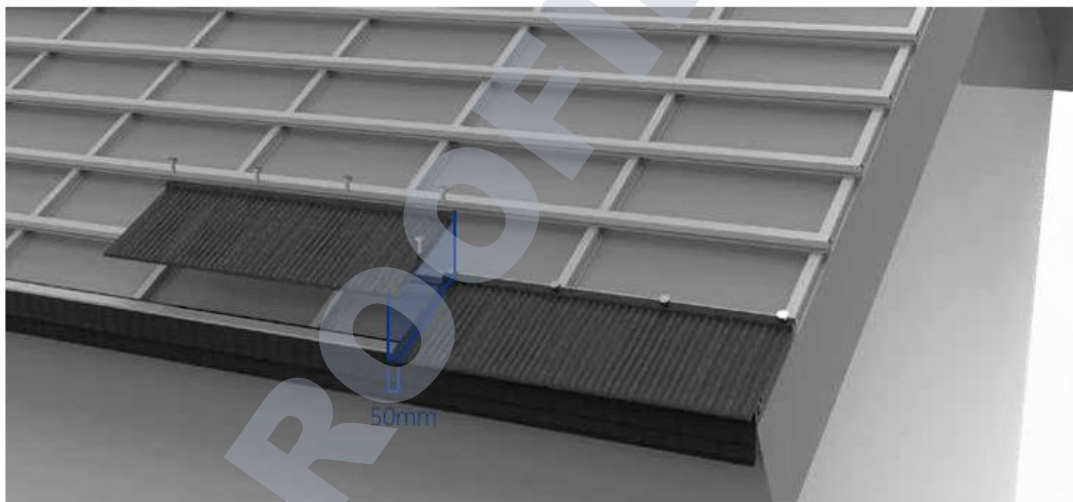
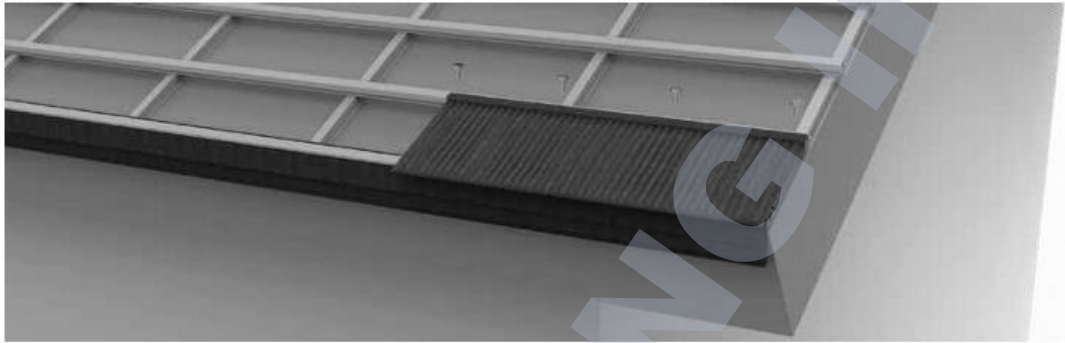


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3.6 Installing SCM Stone Coated Metal Roof Panel

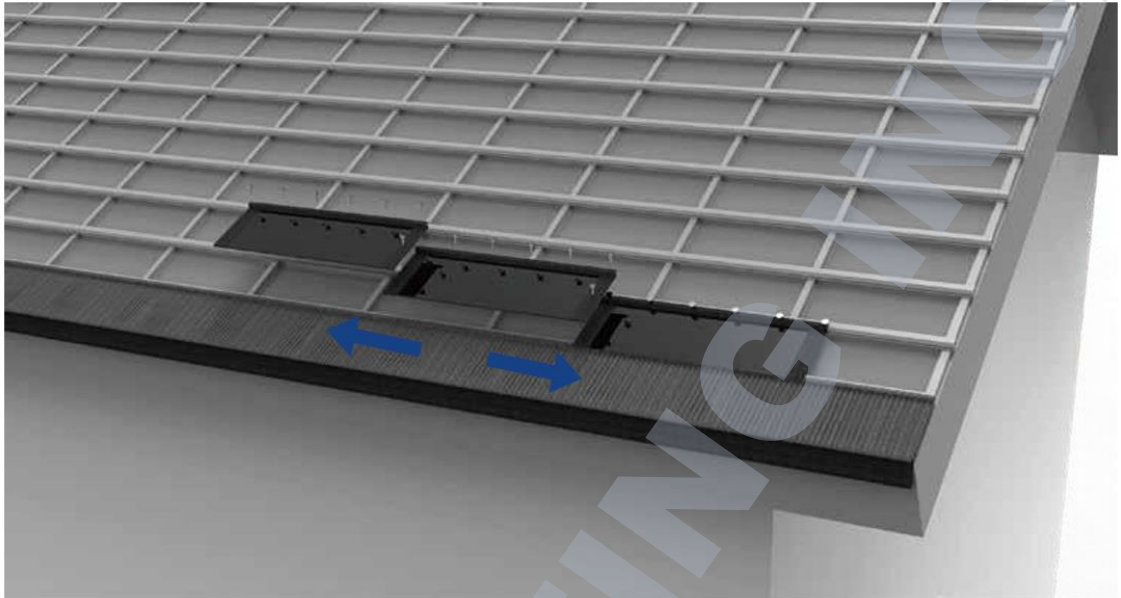
Prepare in advance the SCM Solar Integrated Roof Panel layout drawing provided by SCM Roofing Inc.'s Engineering Department. The first row of tile should be non-solar roof panels, screwed to the battens (no less than 4 screws per 1340mm length of SCM Stone Coated Metal Roof Panel) with a 50mm lap width.

Note: The demonstration uses SCM Stone Coated Metal Roof Panel in “Woodshake” design as an example, but this manual is also applicable to “Shingle” design.



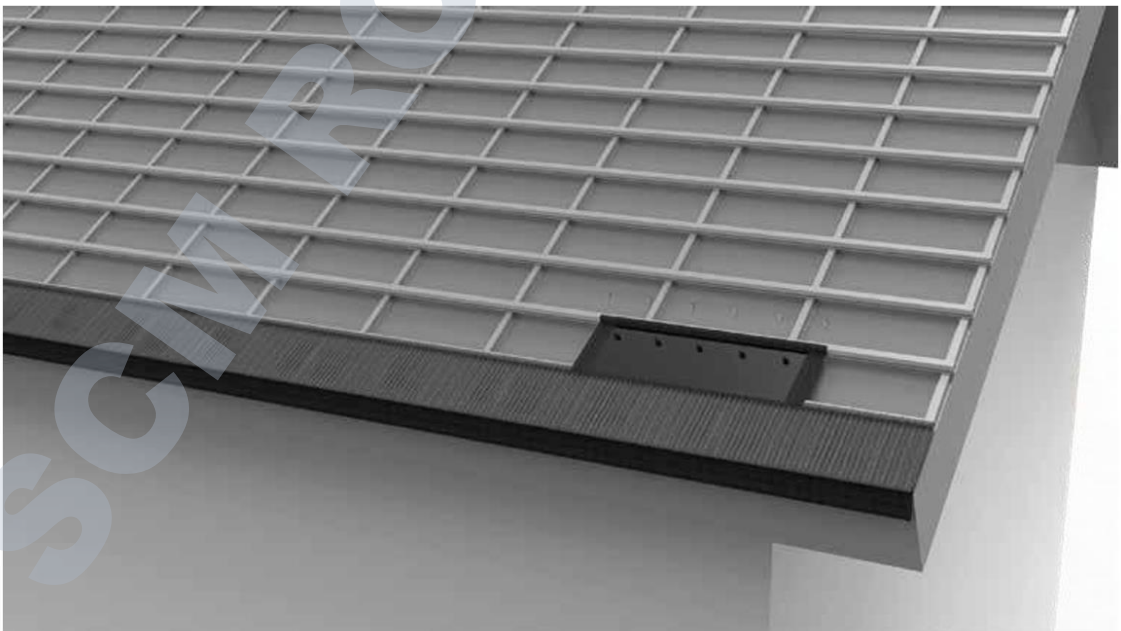
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Following the layout plan provided by SCM Roofing Inc.'s Engineering Department, the installer should install the SCM Solar integrated Roof Panel in offset pattern, starting from the middle to the sides to fix the panels onto the battens.



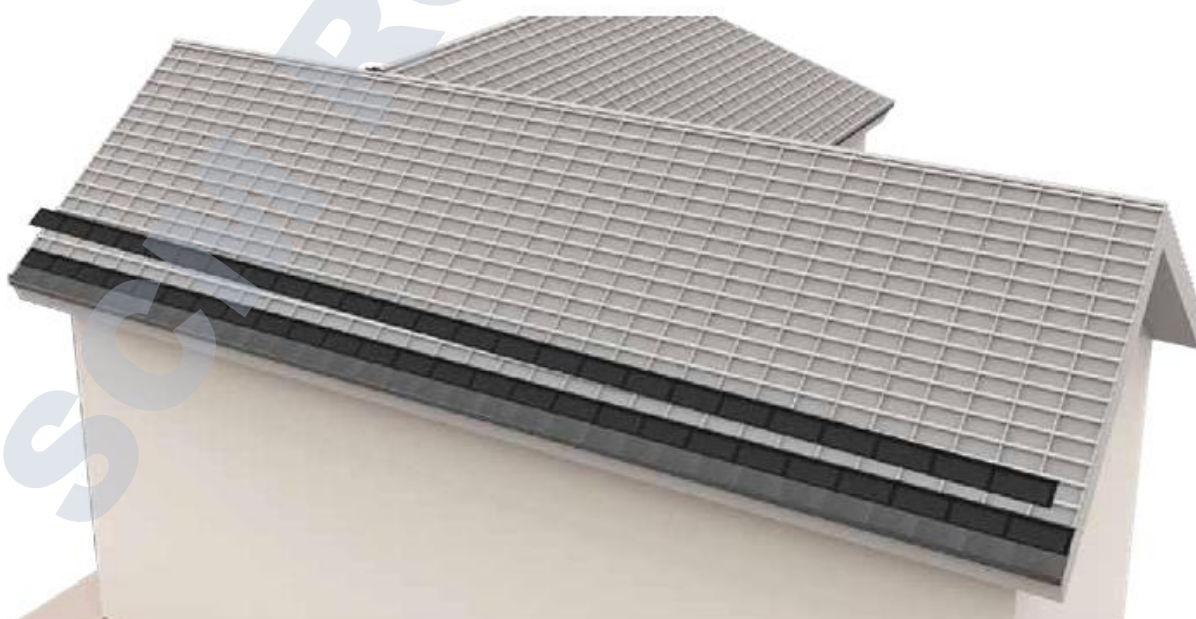
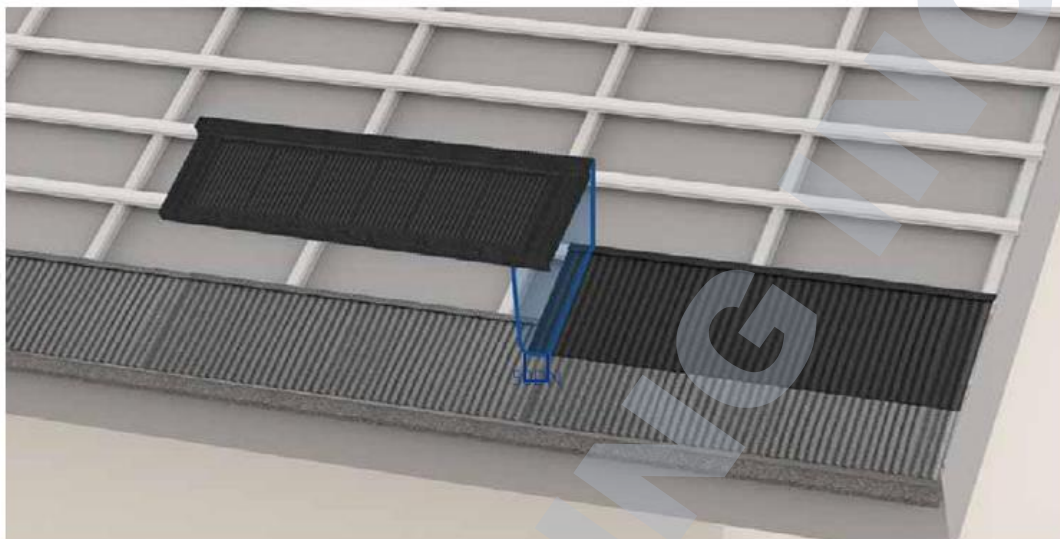
Each SCM Solar Integrated Roof Panel must be fixed with not less than 4 screws on the front side. For high-rise or sloping roofs, the number of nails per solar tile should not be less than 8. Overlaps in the horizontal direction must be fixed with screws.

Note: Please avoid covering the glass of the Solar Integrated Roof panel with the edge of another Solar Integrated Roof panel.



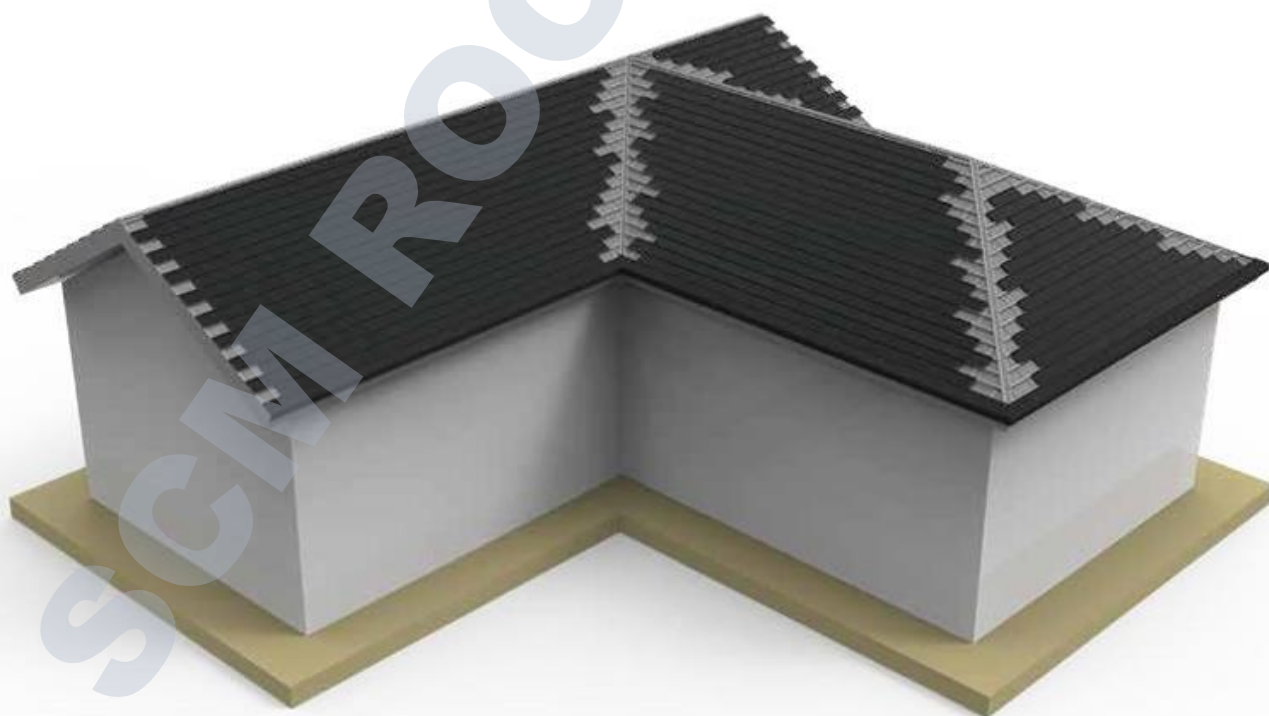
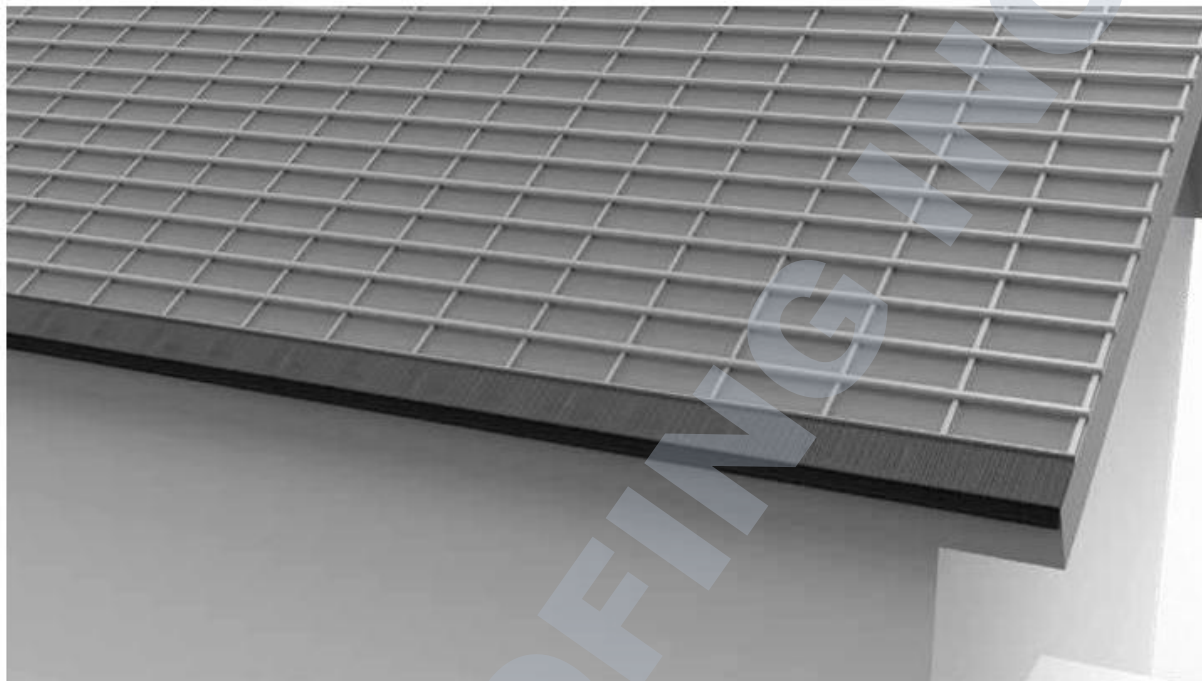
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The horizontal lap width of the SCM Solar Integrated Roof Panel is about 50 mm. After fixing the Solar Integrated Roof Panel, the installer should check the cables of the two neighboring Solar Integrated Roof Panel and connect them. Only after the test is passed, the connection of the next pair can be carried out in turn.



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This demonstration is about an offset-pattern layout. The front edge of the upper row of tiles is to be snapped over the raised rear edge of the lower row of tiles. At the juncture with the ditch tiles, the Solar Integrated Roof Panel/Stone Coated Metal Panel should be placed into the ditch tiles by 3-5cm.





SCM SOLAR INTEGRATED ROOF



PHYSICAL PARAMETERS

Color	Black (JS80C-26),
Dimensions	Rled, (JS6CB-26)
Power Output	80W
Weight	6.5kg
Solar Cell Type	166*83mm(2*13)cells
Junction Box	>IP67
Cable Type	900mm / 4mm ²

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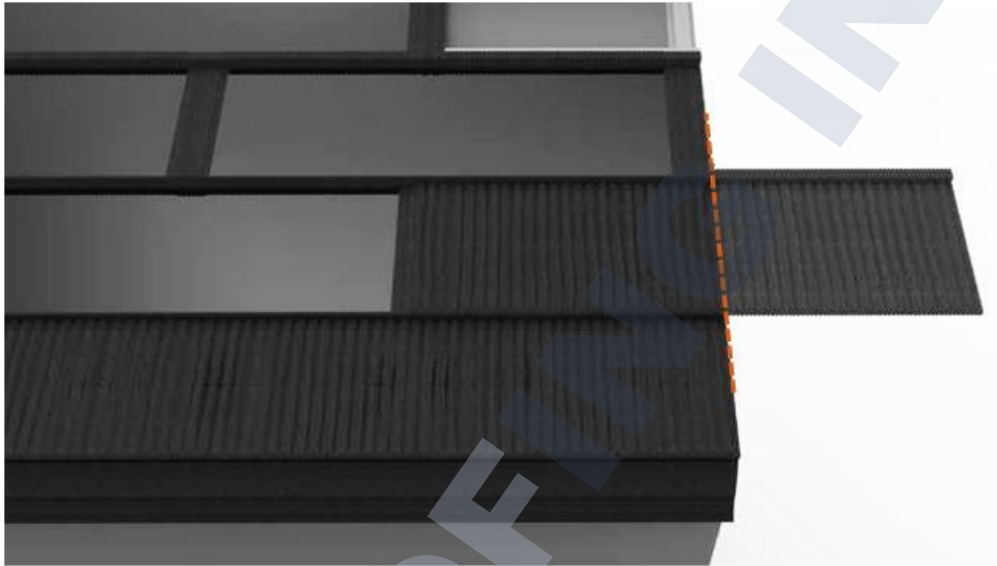


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3.7 Installing Accessory Tiles

Prepare in advance the Solar integrated Roof panel layout drawing provided by SCM Roofing Inc.'s Engineering Department. The installer should fix the accessory tiles to the battens with self-tapping screws from right to left according to the drawing. The lap area is 50mm. If accessory tiles need to be cut, proceed in this order.

Mark the position of the accessory tiles to be cut with a marking line.



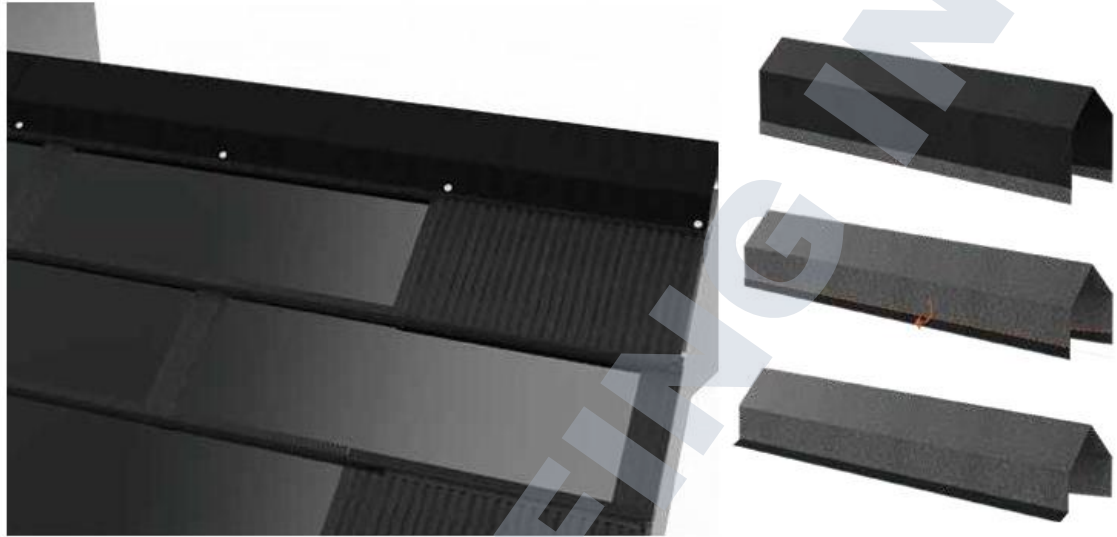
Note: Please go to the specialized workshop for the cutting procedure, and do not perform any cutting procedure on the sloping roof.

Anyone installing the Solar Integrated Roof Panel should get trained in the correct manual handling practices and must have general construction site training and safe working at heights training. All appropriate health and safety regulations should be correctly observed and the installation of the system should be avoided in adverse weather conditions, including strong winds, rain, ice or snow.

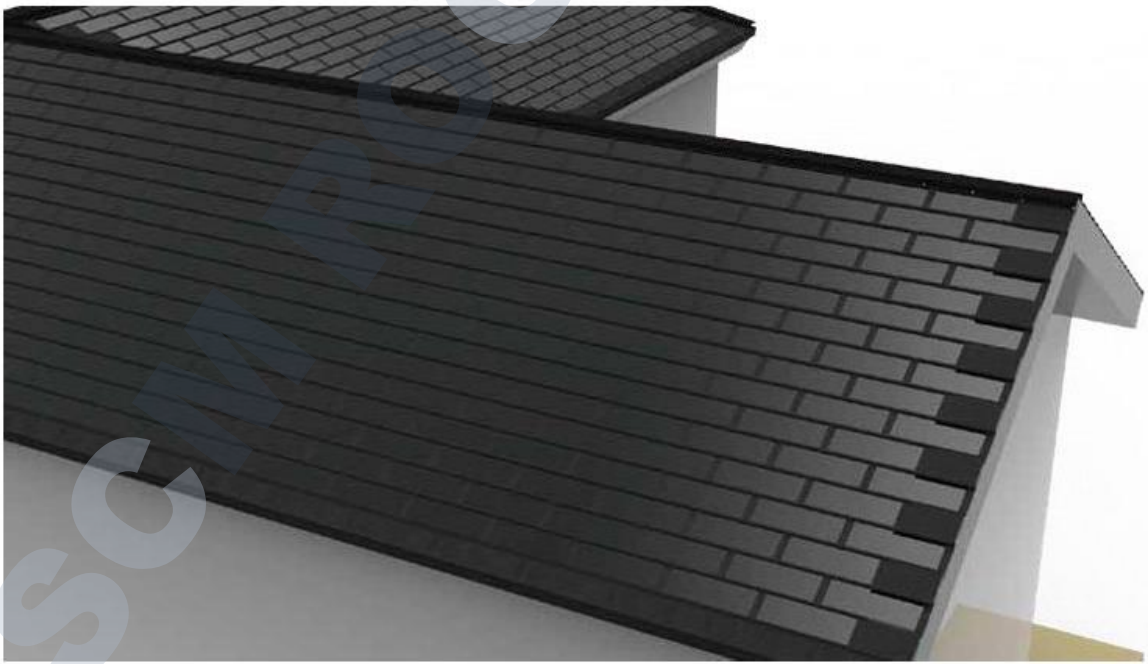


3.8 Installing Ridge Tiles and Hip Tiles

The installer needs to cut out the rest of the main Stone Coated Metal panel after leaving a certain width at the joint with the ridge tiles/hip tiles, then fold it upwards by 3-5cm and fasten it to the battens with self-tapping screws. Finally, the installer needs to fasten the ridge tile on top and fix it to the batten with self-tapping screws on both sides. At least 4 self-tapping nails are required on both sides of each ridge tiles/hip tile, spaced 40cm-60cm apart.

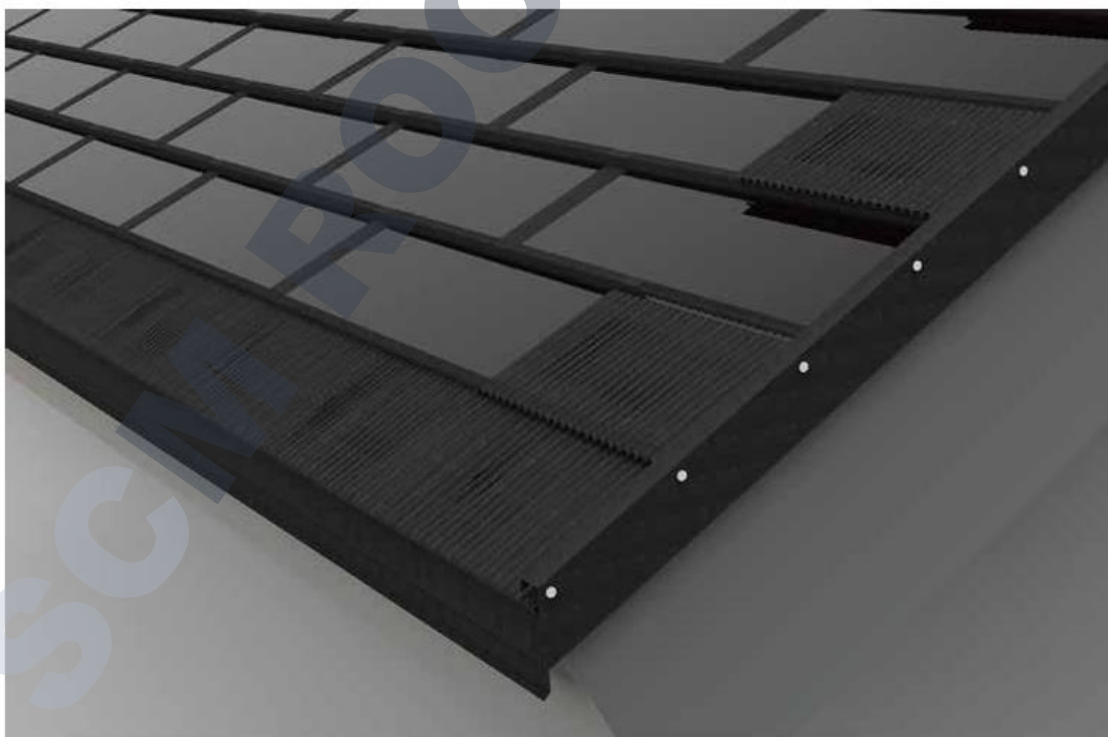
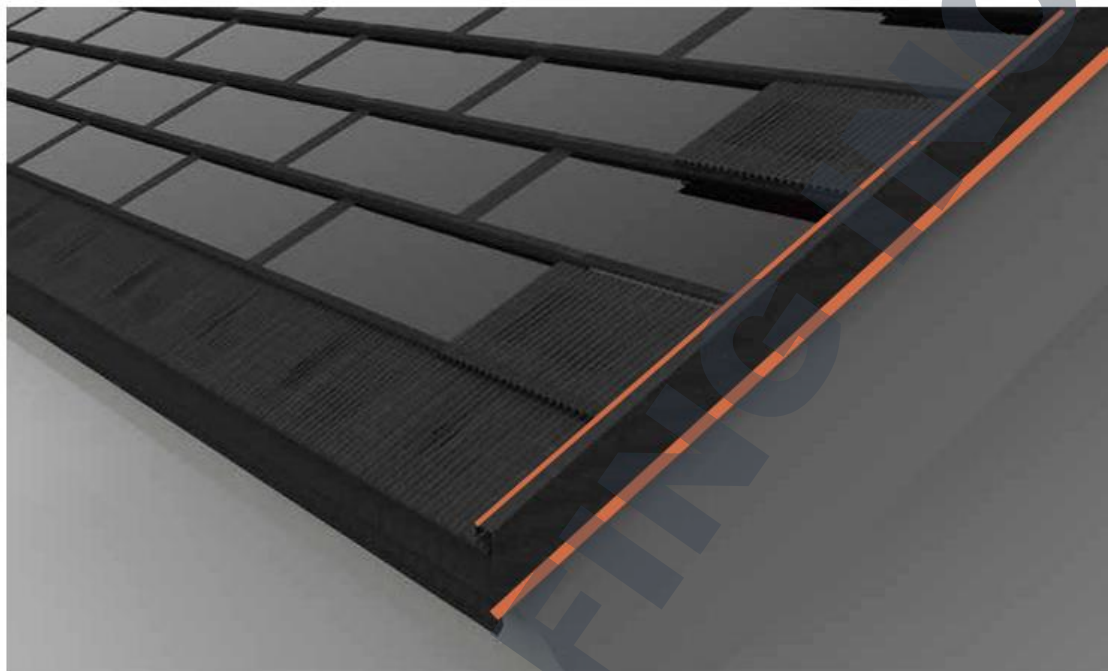


The installer must ensure that the ridge tiles/hip tiles look nice and neat, without undulations or twists.



3.9 Installing Barge End Flashing

Before installation, both sides of the gable will be treated with butyl waterproofing membrane, and then the SCM Barge End Flashing will be installed and fixed with nylon expanding nails.

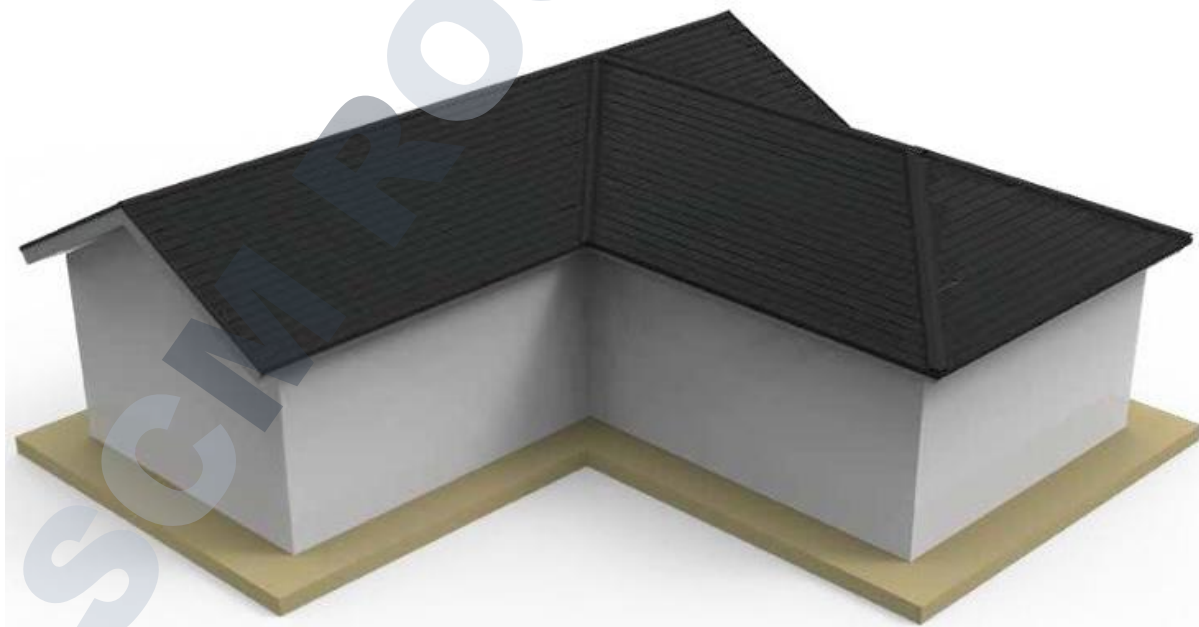


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(OPTIONAL) Install the side wall flashing board on the top wall of the roof. Before installation, use butyl waterproofing membrane on both sides of the inner corner, and then use nylon expansion nails to fix it. This is a rare case in European buildings.



3.10 Finished





SCM SOLAR INTEGRATED ROOF



PHYSICAL PARAMETERS

Color	Black (JS80C-26),
Dimensions	Rled, (JS6CB-26)
Effective Size	1260 × 370mm
Power Output	80W
Weight	6.5kg
Solar Cell Type	166*83mm(2*13) cells
Junction Box	>IP67
Cable Type	900mm / 4mm ²
Glass Material / Thickness	Tempered glass, 3.2mm + Backsheet
Plug Connector	MC4
Life Span	>30 years

TECHNICAL / OPERATING CONDITIONS

Max. system voltage	1500Vdc
Max. series fuse rating	16A
Operating temperature range	-40°C ~+85°C
Max. static load (front)	5400Pa
Max. static load (back)	2400Pa
Max. hailstone impact diameter / velocity 25mm / 23m/s	



Installed Application



Product Sample



09304968136, 09171105517, 09177062924



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4. ELECTRICAL INSTALLATION

4.1 List of Electrical System Materials

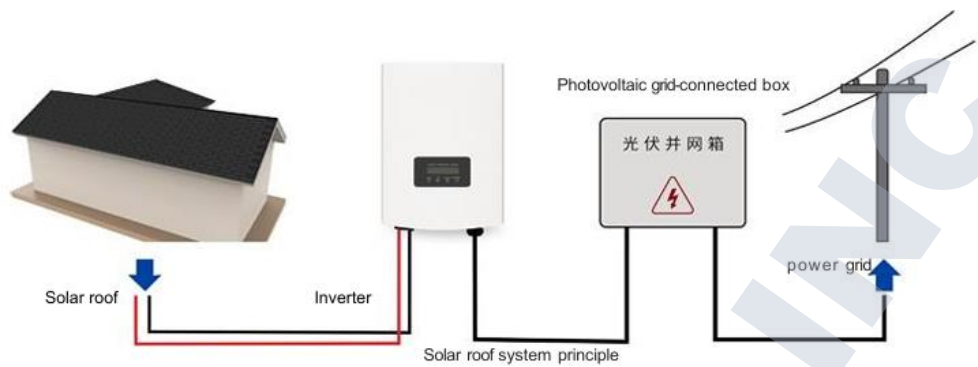
		
Inverter	Photovoltaic Grid-Connected Box	DC Cable
		
AC Cable	MC4 Connector	2-in-1 Photovoltaic Connector

4.2 Checks

- a. Appearance should be intact;
- b. The model and specification shall meet the requirements of design drawings;
- c. Accessories and spare parts are complete.

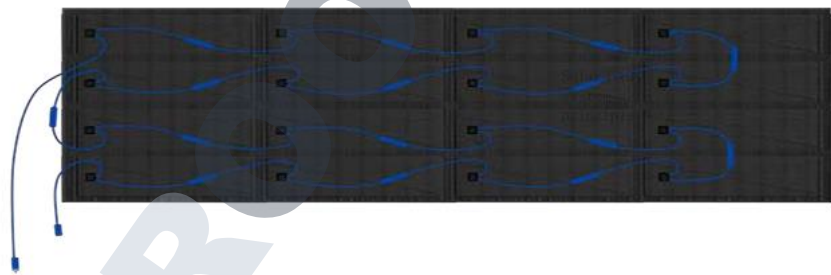
			
Wire strippers	Cord Cutters	Screw Driver	Crimping tool
			
MC4 Watch	Hydraulic Pliers	Thermal Casing	Heat Gun
			
Multimetre	Insulating Gloves	Protection Goggles	Safety Shoes

4.3 Electrical System Installation

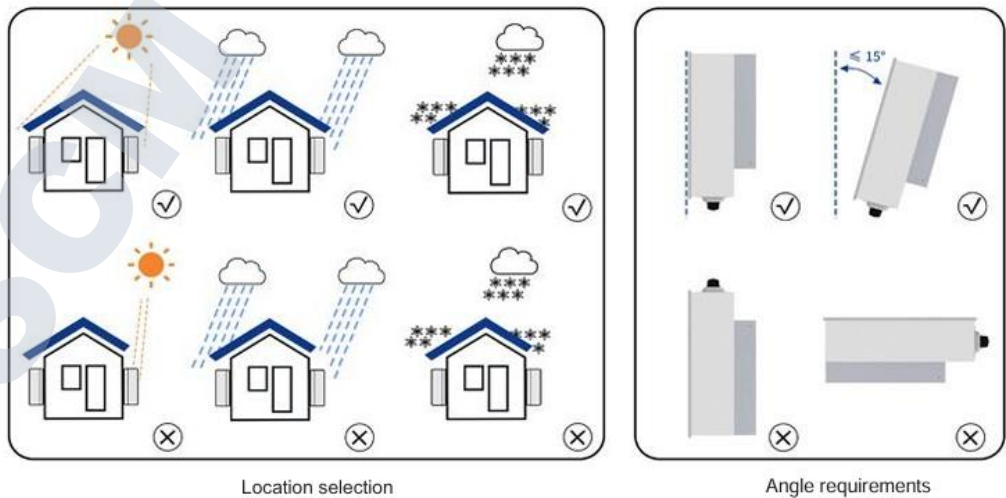


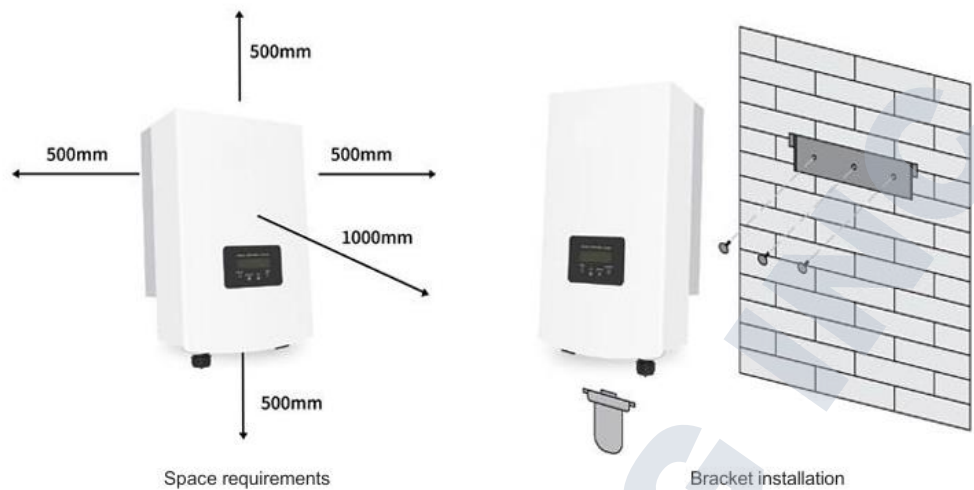
4.3.1 Solar Integrated Roof Panel String Electrical Connection

Solar Integrated Roof Panel should be installed from bottom to top. Under normal circumstances, the installation and wiring of the second row can only be done after the installation and wiring of the lower row is completed. For those that need to connect Solar Integrated Roof panels, it is necessary to increase the extension line processing. When installing, first install the conventionally installed Solar Integrated Roof Panel according to the drawings; and reserve the cable for the Solar Integrated Roof Panels that need to be bridged, and do not install the Solar Integrated Roof Panels at the bridged parts first. And connect the extension cord here first. Lead out the other end of the extension cable, and lead it to another location to be bridged according to the wiring diagram, and then complete the installation of the nearby Solar Integrated Roof panels. To be installed to the PV watt-hours at the other end of the jumper cable, complete he installation at the other end.



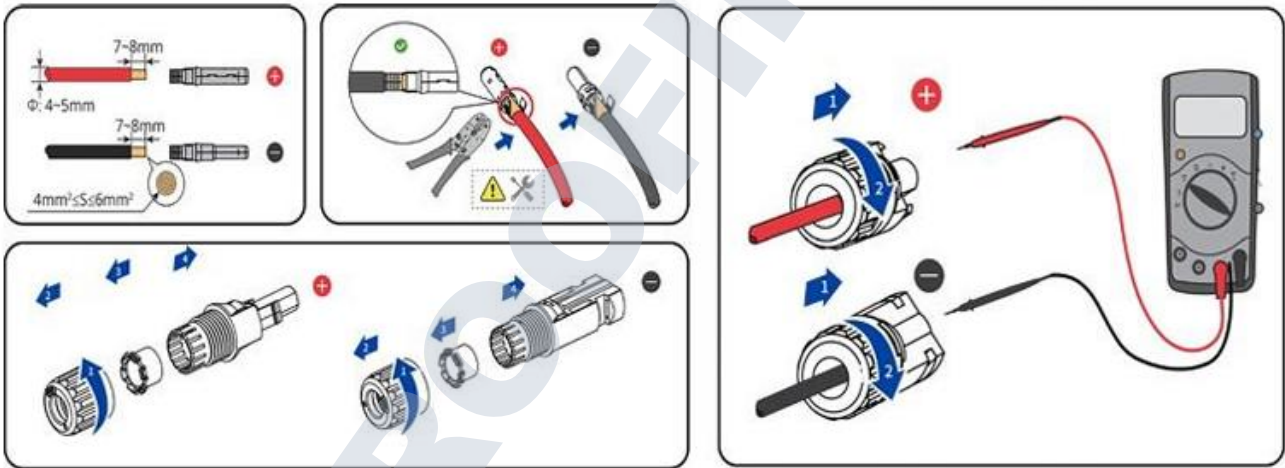
4.3.2 Inverter Installation



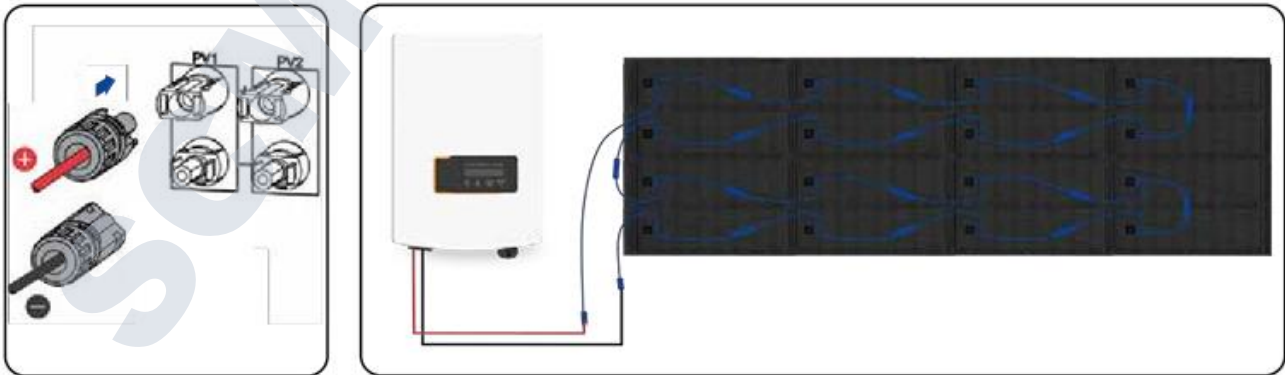


4.3.3 Photovoltaic Connector Production

Use a multimeter to measure the photovoltaic voltage of the DC input, and verify that the value and polarity of the DC input voltage are consistent with the requirements of the design drawings.

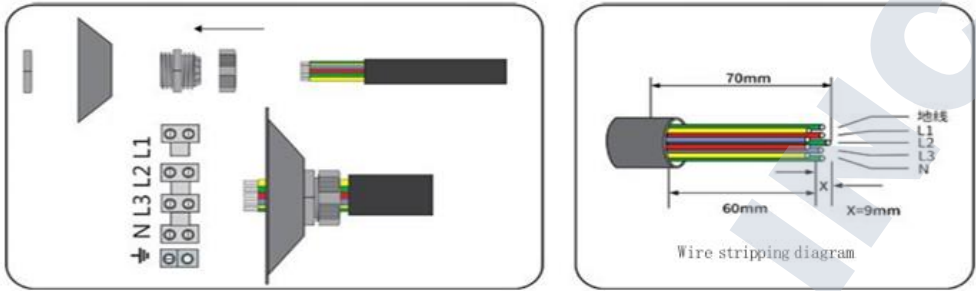


4.3.4 Photovoltaic DC Line Connection to the Inverter



4.3.5 Inverter AC Line Terminal Production

Use a multimeter to measure the photovoltaic voltage of the DC input, and verify that the value and polarity of the DC input voltage are consistent with the requirements of the design drawings.

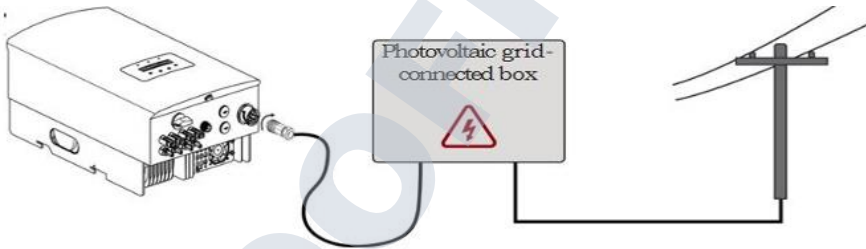


Wire Stripping Diagram

- 1. Choose the right tool to strip the insulating sheath.
- 2. Connect the wires to the AC terminals correctly according to the wiring diagram.
- 3. Fasten the waterproof cover (PG16) to the product.

4.3.6 The AC Line of the Inverter is Connected to the Grid

Connect the AC connector to the inverter, then turn the AC connector to the right and hear a slight click to indicate a good connection

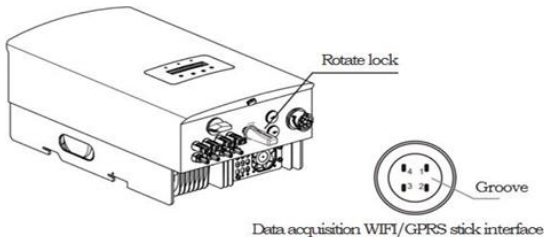


Correctly connect the photovoltaic tile array, inverter and AC grid according to the aforementioned installation process. Ensure that the AC and DC side voltages meet the machine start-up conditions.

Number	Check Item
1	The inverter is firmly installed, the installation location is convenient for operation and maintenance, the installation space is convenient for ventilation and heat dissipation, and the installation environment is clean and tidy.
2	The protective ground wire, DC input wire, AC input wire, and communication wire are correctly and firmly connected.
3	The cable binding meets the routing requirements, the distribution is reasonable, and there is no damage.
4	Unused ports are blocked.
5	The voltage and frequency of the grid-connected inlet of the inverter meet the grid-connected requirements.

4.3.7 Data Collector Installation

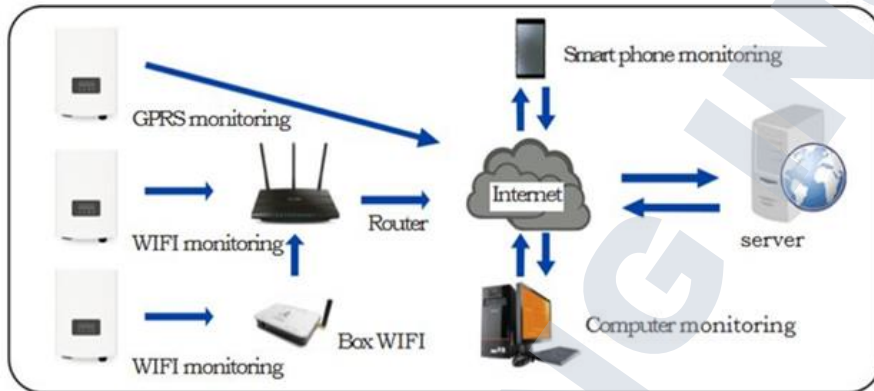
Please turn off the AC and DC power supply of the inverter before inserting the monitoring stick in the COM, and turn the black coil clockwise after inserting the monitoring stick (do not directly rotate the shell of the collector).



4.3.8 Communication Connection

The inverter can be monitored via Wi-Fi or GPRS, and these communication functions are optional. Please refer to the operating instructions of the relevant communication methods.

Please turn off the AC and DC power supply of the inverter before inserting the monitoring stick into the COM, and turn the black coil clockwise after inserting the monitoring stick (do not directly rotate the shell of the collector).

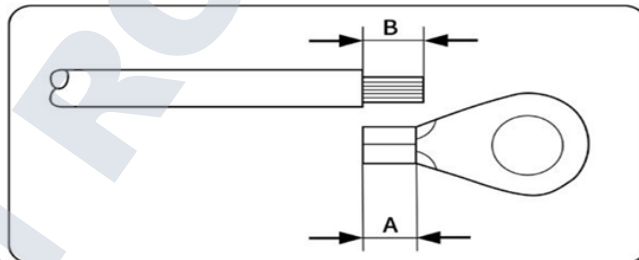


4.3.9 Connecting the Protective Earth (PE)

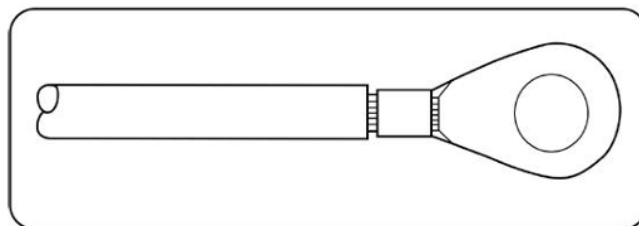
In order to effectively protect the inverter, two grounding methods must be used at the same time. Make sure that the AC ground wire and the external ground terminal are reliably grounded, and connect to the external ground terminal.

Please follow the steps below:

- Prepare grounding cable: It is recommended to use outdoor copper core cables with a cross-sectional area $\geq 6\text{mm}^2$.
- Prepare OT terminal: M4.
- Use a wire stripper to strip the insulation layer of the grounding cable to an appropriate length (B is 2mm-3mm longer than A).



- Feed the stripped wire core into the conductor crimping area of the OT terminal and press it tightly with hydraulic pliers.



- Unscrew the screw at the ground location.
- Fix the prepared ground cable with the screw at the ground position, and fasten the screw with a Phillips screwdriver.

4.4 Extra Notes

4.4.1 Lightning Protection

Installing a photovoltaic roof system on a building not lower the lightning protection level of the building, and should meet the requirements of the current national standard GB 50057. and make multi-point reliable connections with the roof lightning protection grounding device. The metal bracket of the roof photovoltaic roof system should be reliably connected to the grounding system of the building or grounded separately.

4.4.2 Functional Ground

Repeated grounding of distribution box and inverter functional grounding; use tinned copper braid or annealed copper wire. Connect the ground bar of the device to the ground jumper.

Grounding resistance measurement: the integrated grounding resistance of the system is required to be no greater than 4 ohm.

4.4.3 Power Generation Test Run

- a. Ensure that the above inspection items meet the requirements;
- b. Close the circuit breaker on the DC input side;
- c. Close the grid side circuit breaker;
- d. When the conditions required for the normal operation of the machine are met, the inverter will automatically start and perform grid-connected power generation.

4.4.4 Shutdown Process

- a. When the light is not enough to generate electricity, the grid-connected inverter will automatically shut down;
- b. Emergency shutdown process: When encountering the risk of electric shock or other emergencies, the grid side circuit breaker and DC side circuit breaker can be disconnected;
- c. After the grid-connected inverter is in normal operation; no human control is required, and it has the function of automatic shutdown and startup after a fault.

5. Safety Precautions

5.1 Electrical Construction Operation Requirements

Requirements: professional electrician, welding work, holding a certificate.

SCM Solar Integrated Roof Panel DC Side Wiring

- a. Do not open the junction box on the back of the photovoltaic tile;
- b. Do not directly touch the positive & negative poles of the photovoltaic tile with your hands;
- c. Do not directly unplug the positive & negative terminals of the string when the power is supplied;
- d. Do not exert mechanical force on the photovoltaic tile backplane wire;
- e. After laying the DC line between the square array and the inverter, measure the insulation resistance of the positive and negative poles to the ground to avoid grounding electric shock accidents caused by damage to the cable sheath.

5.2 Wiring Between the Inverter and the Photovoltaic Grid-Connected Box Side

After the laying of the AC cable is completed, the insulation resistance between each phase, zero and ground should be measured first, and the electrical debugging can only be carried out after the measured resistance value is qualified

6. As-built Drawings

After the completion of the project, the owner should submit a completed drawing, including the layout diagram of the actual installation of the roof, the string diagram, and the electrical diagram, so as to facilitate later maintenance.



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NEW METAL SHINGLE



SHINGLE TILE



Product: Stone Coated Metal Aluminum
Zinc - New Zealand
Profile: New Metal Shingle
Size: 1340mm * 420mm
Installed Exposure: 1290mm * 370mm

Tiles per Square Meter: 2.08 sheets
Installed Weight: 2.80 kgs per sheet
Color: Arctic Blue, Black, Brown Black, Green Black, Terracotta
Special Color: Two (2) Tone available upon request - MOQ 1000 pcs + Freight - Shipping

WOODSHAKE



WOOD TILE



Product: Stone Coated Metal Aluminum
Zinc - New Zealand
Profile: Woodshake
Size: 1340mm * 420mm
Installed Exposure: 1290mm * 370mm

Tiles per Square Meter: 2.08 sheets
Installed Weight: 2.80 kgs per sheet
Color: Arctic Blue, Black, Brown Black, Green Black, Terracotta
Special Color: Two (2) Tone available upon request - MOQ 1000 pcs + Freight - Shipping

ROMAN



ROMAN TILE



Product: Stone Coated Metal Aluminum
Zinc - New Zealand
Profile: Roman
Size: 1300mm * 420mm
Installed Exposure: 1250mm * 370mm

Tiles per Square Meter: 2.16 sheets
Installed Weight: 3 kgs per sheet
Color: Arctic Blue, Black, Brown Black, Green Black, Terracotta
Special Color: Two (2) Tone available upon request - MOQ 1000 pcs + Freight - Shipping