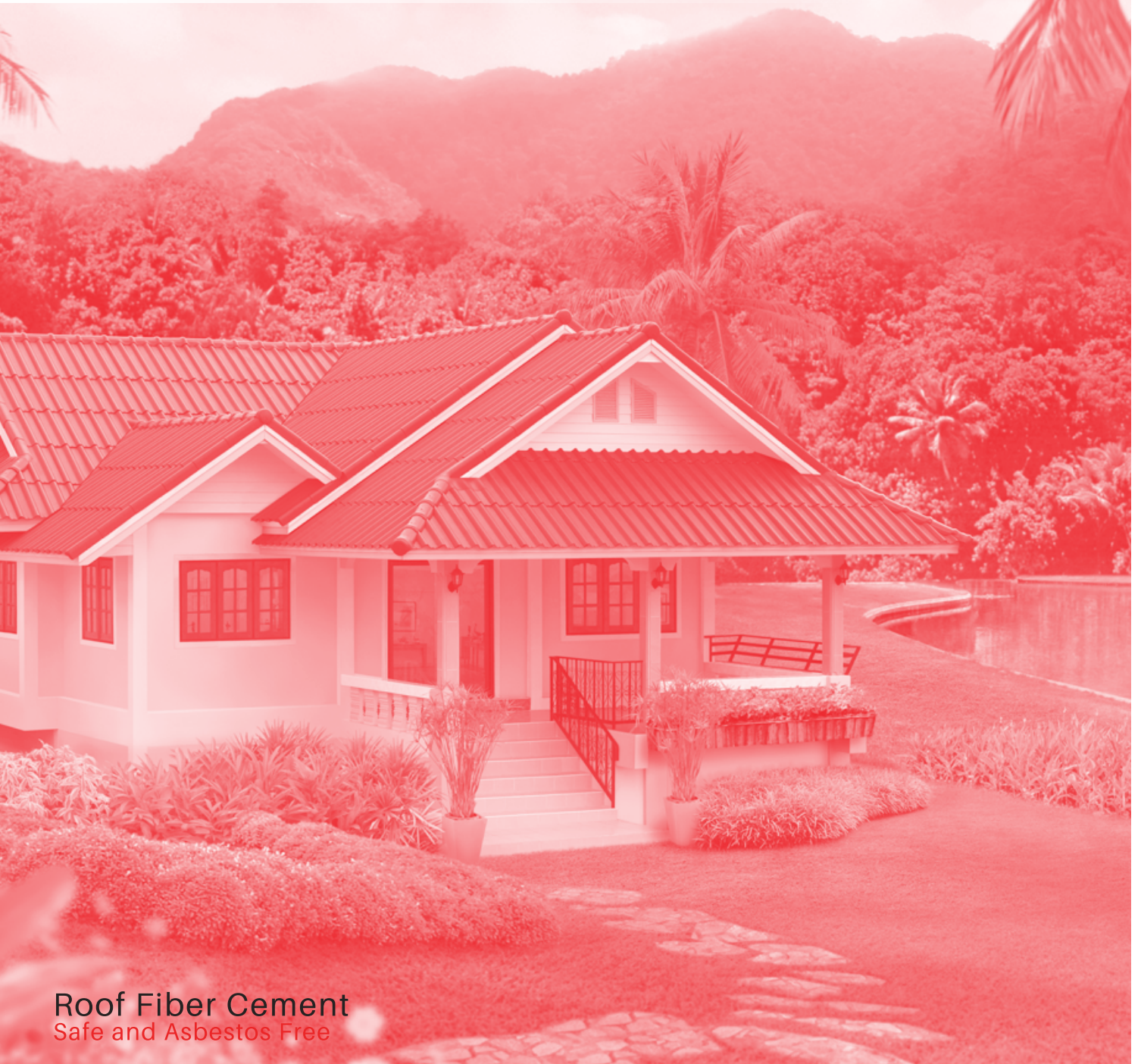


# ATAP GAJAH

## Installation Manual



Roof Fiber Cement  
Safe and Asbestos Free

# SCG Roman Tiles, Safe and Asbestos Free

## ▶ Special properties

- Long-lasting color, non-peel**  
 With 2 layers of coating produced by color curtaining system which is considered as the world-class technology.  
 (except Cement Grey color)
- Save on structure cost and installation cost**  
 With 1000 mm batten spacing for 1200 mm length.
- Seamless elegant roof**  
 SCG Dry Ridge System is a dry way of installation without the plastering. Your roof will be clean without plastering stain.
- Leak Proof**  
 With a complete set of SCG Roof Accessory

## ▶ 3 qualities of excellent roof tile

**Safe & Asbestos Free**

- Since there is no Asbestos in the product composition, it is safe to use. You can be worry free.

**5.5 mm. Thickness**

- SCG Roman Tiles provides 5.5 mm thickness. Therefore, the roof is more robust and strong compared to lighter model (4.4 mm thickness). Moreover, the product is worth the price, since it is hardly requires replacement.

**Branded by SCG**

- You can trust in quality of the SCG Brand, qualified by TIS 1407-2540 for Asbestos free Fiber Cement Roof.

## ▶ Storing of roof tile at site

- Pile the tiles on smooth, dry, and strong surface that can bear weight load.
- Provide hard timber piece of 1.5" x 3" size to support both sides of tiles at 200 mm from each edge.
  - For 1200 mm length tile, use 2 pieces of timber
- Maximum stock is 150 tiles.
- Alternate each layer by 5 tiles for convenience of counting or transporting.
- Store under roof or covered area to avoid the rain.

## ▶ Safety regulation during operation

- Always wear personal protection equipments, such as safety helmet, rubber shoes, and gloves, etc.
- Always wear dust protection equipments, such as dust protection goggle, dust protection mask during tiles cutting in order to prevent dust from entering your eyes and nose.
- When walking on the roof tiles, always step on where battens are placed directly beneath it. To ensure safety, place 1.5" x 4" timber pieces on tiles which are in the same batten alignment when walking on roof.
- Whenever working on the roof, always wear a safety belt that can be firmly hold the structures.

## ▶ Technical information

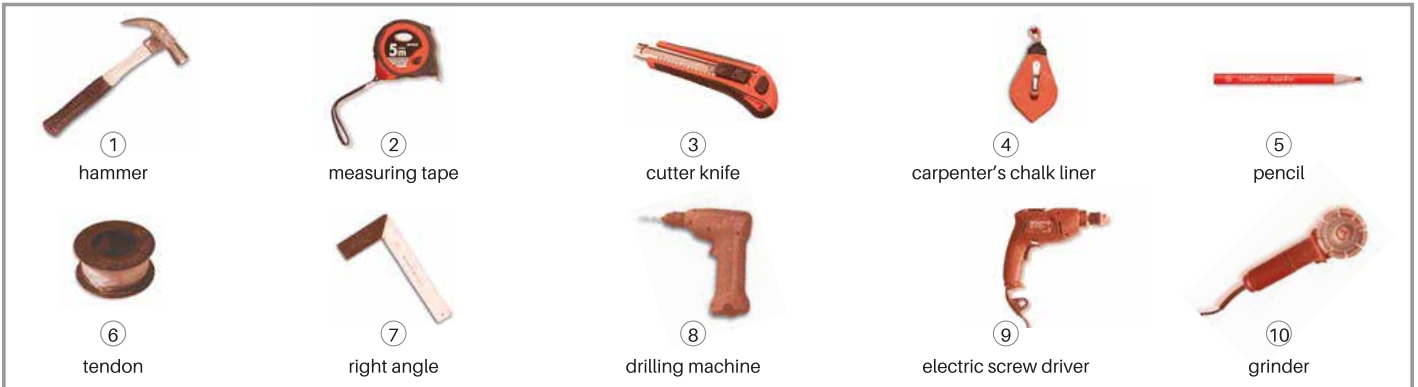
Products Specification	
Size : width x length (mm)	500 x 1200
Thickness (mm)	5.5
Weight (kg. / pcs)	6.7
Number of Pieces/sq.m.	2.2
Roof slope (degree)	15 - 40
Batten spacing (mm)	1000
Industrial standard	TIS.1407-2540
Color	Cocoa, Red, Stone Grey, Brown, Light Blue, Green

# Content

Installation equipment and recommendation for installation of SCG Roman Tiles	1 - 2
Installation of SCG SmartWOOD fascia board, and SCG Roman Tiles eave filler set	3
Installation of SCG Roman Tiles	4
Installation of SCG Roman Tiles for Gable form roof	5
Installation of SCG Roman Tiles for Hip form roof	6
Installation of SCG Roman Tiles for other types of steel purlin	7
Installation of SCG Valley Trough for SCG Roman Tiles and Prima	8
Installation of SCG Dry Ridge System	
• Installation of round ridge by SCG Dry Ridge System	9
• Installation of round hip ridge by SCG Dry Ridge System	10
• Installation of barge by SCG Dry Ridge System	11
• Installation of round 3 ways apex, round 4 ways apex and wall ridge by SCG Dry Ridge System	12
Installation of SCG Flashing	13
Prevention and solution for the wrong installation of SCG Roman Tiles	14

## ▶ Installation equipment and recommendation for installation of SCG Roman Tiles

### TOOLS



### Installation Method

**1**

SCG Roman Tiles      SCG RT Clip Lock      SCG Galvanized Steel Purlin

It is recommended to install SCG Roman Tiles by using SCG galvanized Steel Purlin and SCG RT Clip Lock to have a long-lasting roof. This also time saving for installation and reduces any damage cost.

**2**

20-40 degree

Building width

Designed slope of roof has to be 20 - 40 degrees for appropriate installation of SCG RT Clip Lock together with SCG Dry Ridge System. If the slope is 15 - 20 degree, it is recommended to use SCG corner fixing set.

**3**

Eave meets gable end

Ridge meets gable end

Eaves meet each other

Ensure that the roof structures are all in right angles, by inspecting the following 4 points :

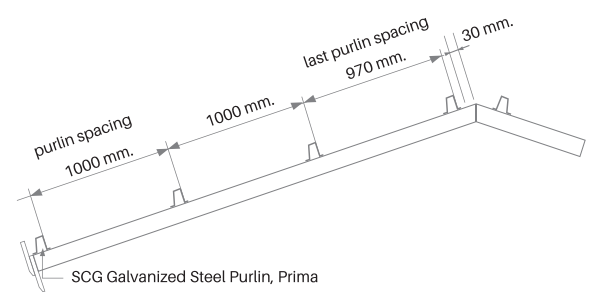
1. Point at ridge meets gable end
2. Point at eave meets gable end
3. Point at 2 eaves meeting each other
4. Align of the ridge must divide equal angle of eaves

**4**

Ensure that the whole roof plane is in level, inspect both lines of rafter by:

1. No bending of the rafter line
2. Levels of each rafter should be equal. If roof structures are in plane, installation of SCG Roman Tiles shall be done neatly, this will make the roof look elegant and can prevent leakage.

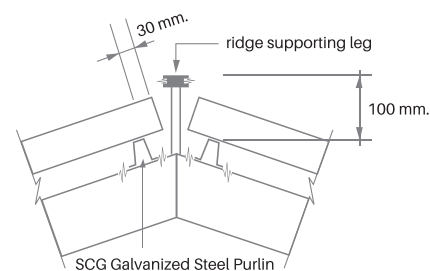
**5**



**Purlin Spacing**

1200 mm length tile, 1000 mm purlin typical spacing, 970 mm for last purlin lapping tile distance, 20 mm

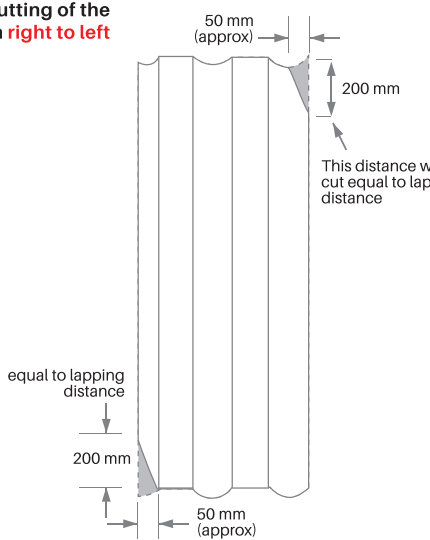
**6**



**Tiles in last row : install tile edge 30 mm further from purlin**  
Install as close as possible to the right supporting leg in order to provide tiles the covering space for SCG Roman Tiles round ridge.

**7**

**Example for tile cutting of the roof from right to left**



50 mm (approx)

200 mm

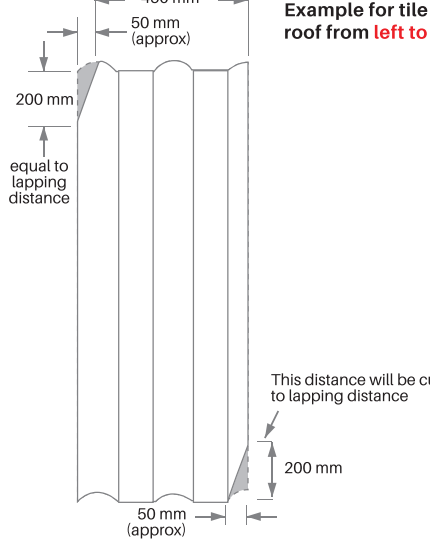
This distance will be cut equal to lapping distance

equal to lapping distance

200 mm

50 mm (approx)

**Example for tile cutting of the roof from left to right**



450 mm

50 mm (approx)

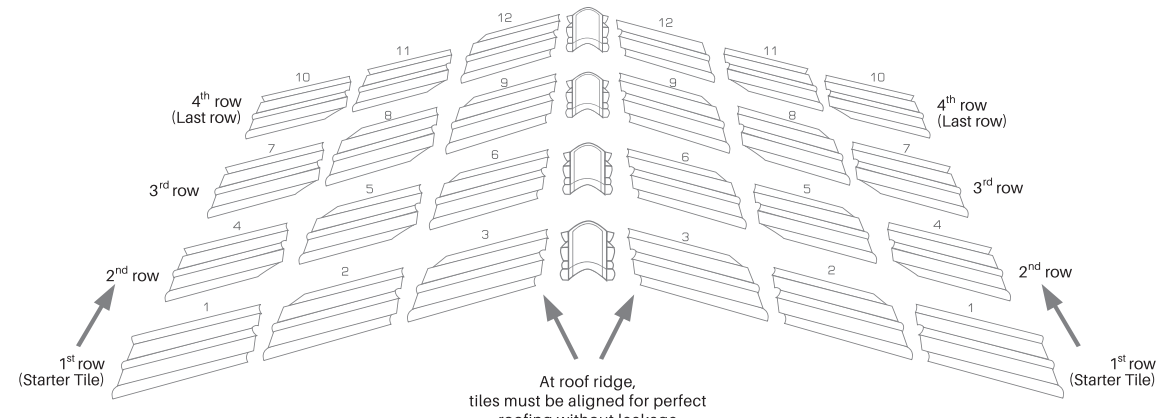
200 mm

equal to lapping distance

200 mm

This distance will be cut equal to lapping distance

50 mm (approx)



**A Side : roof from right to left**

**B Side : roof from left to right**

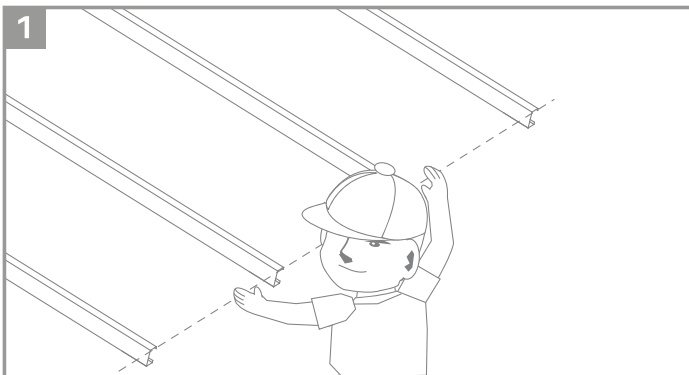
At roof ridge, tiles must be aligned for perfect roofing without leakage

**Installation of SCG Roman Tiles:**

The tile corners and roofing in typical form without alternating the tile to allow complete lapping, which will make the roof look elegant and prevent leakage problem, following the charts for trimming of Roman Tiles.

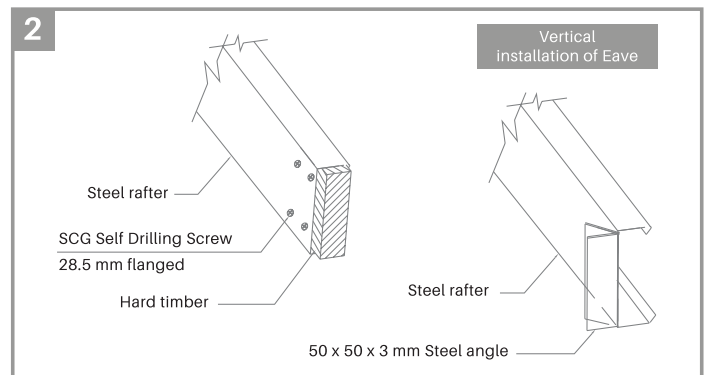
## ▶ Installation of SCG SmartWOOD fascia board, and SCG Roman Tiles eave cover set

**1**



Cut the rafters to get the required line of eaves, then tense the tendon between rafters to obtain eaves plane.

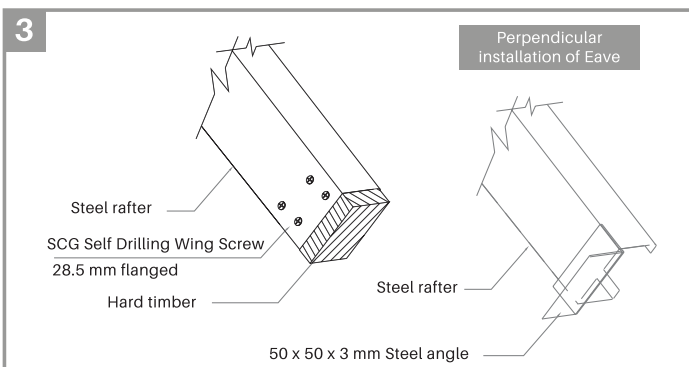
**2**



Vertical installation of Eave

Install hard timber or angle steel into the edge of rafter vertically, then fixed by SCG Self Drilling Screw 28.5 mm flanged for hardtimber.

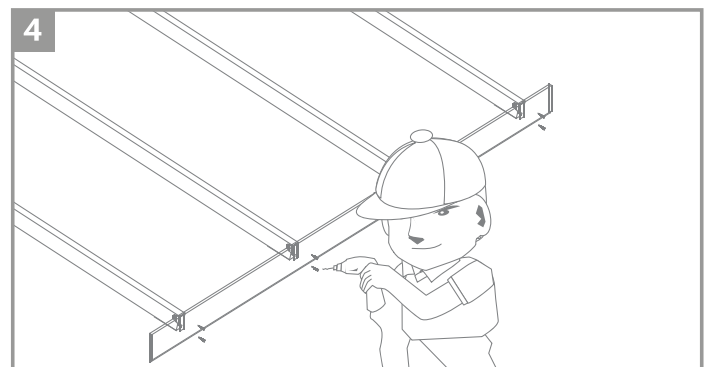
**3**



Perpendicular installation of Eave

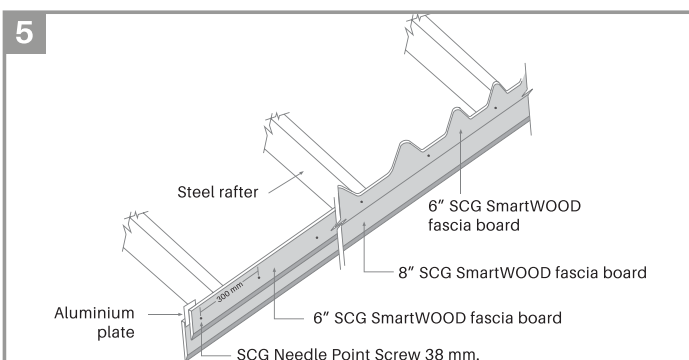
Install hard timber or angle steel perpendicular to rafter line, then fixed by SCG Self Drilling Wing Screw 28.5 mm flanged for hardtimber.

**4**



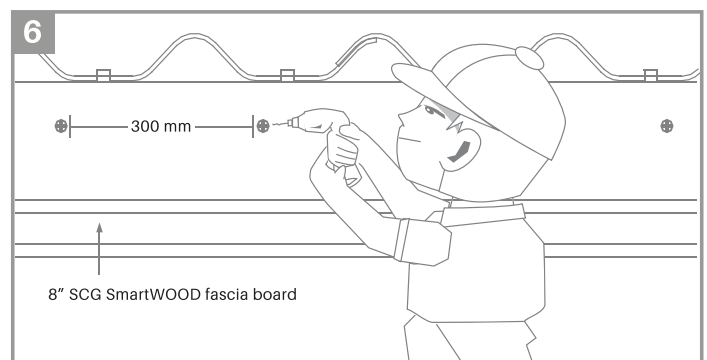
Install 8" board of SCG SmartWOOD fascia board, or install SCG SmartWOOD fascia board, fixed by 2 of SCG Self Drilling Screws 45 mm flanged per one location.

**5**



Make roofing for the last row of tiles in the whole area, then install SCG Roman Tiles Eave Filler set with 8" of SCG SmartWOOD fascia board to match with corrugated pattern of tiles by using 1" nail to fix the eave cover board, or use SCG SmartWood fascia board to fix with the eave board by SCG Needle Point Screw 38 mm sharp-end SCG screw for every 300 mm spacing.

**6**



300 mm

8" SCG SmartWOOD fascia board

\* In case of using SCG Roman Tiles Eave Filler Set, this shall be covered by 6" SCG SmartWOOD eave board fixed by 38 mm fully-embedded type of sharp-end SCG screw at every 300 mm spacing (in case of fixing rafter, use 55 mm Self-drilling screw), drive the screw to be fully embedded into eave matrix.

\* In case of using 6" SCG SmartWOOD eave board in the first row, it shall be covered by 4" SCG SmartWOOD eave board for aesthetic concern.

## ▶ Installation of SCG Roman Tiles

**Tip :** SCG Galvanized Steel Purlin and SCG Self Drilling Screw 13 mm (pin-head type) are rust free and endure (see details in pages 15 - 16)

**1**

Water Leveling  
20° - 40°

Check the perpendicularity and leveling of roof frame, and also the slope of roof to ensure that the Slope is between 20 - 40 degree (in case it is less than 15 degree, please consult the manufacturer).

**2**

10 m  
20° - 40°

Roof with 20 degree slope is suited with the rafter with maximum length of 10 m In case the rafter with length is longer than 10 m, the slope shall be increased to be more than 15 degrees.

**3**

SCG Galvanized Steel Purlin  
Gable end  
Eave

Start installation of first piece of SCG Galvanized Steel Purlin on the eave by turning the side with hook upward, fix the purlin to steel rafter by using SCG Self Drilling Screw 13 mm (pin-head type).

**4**

(Tile length = 1200 mm)  
1000 mm 1000 mm 1000 mm  
20°

Use SCG Self Drilling Screw 13 mm to install the next purlin with space at 1000 mm (tile length = 1200 mm)

**5**

50 mm

In case batten jointing is required, this shall be done in the rafter area only, with 50 mm lapping distance. Hit the batten leg in lapping area evenly, then fix by SCG Self Drilling Screw 13 mm .

**6**

1000 mm 1000 mm 1000 mm 970 mm 30 mm 970 mm  
20°  
(Tile length = 1200 mm)

Provide 970 mm spacing for the last batten, and leave 30 mm distance from rafter's end for the uppermost batten.

## ▶ Installation of SCG Roman Tiles for Gable form roof

**Tip :** SCG Galvanized Steel Purlin has been designed for rafter with 1.2 m of maximum spacing, provided with a flange for fixing with particular SCG RT Clip Lock (see details in page 15 - 16)

**1**

Hook the SCG RT Clip Lock with SCG Galvanized Steel Purlin following the figure. One of double corrugated tile will require 2 of SCG RT Clip Lock. At the first row of purlin, fix it by SCG RT Clip Lock and SCG Self Drilling Screw 13 mm.

**2**

Start roofing the first tile by making the inverted side of tile aligned with the gable end (use 2 SCG RT Clip Lock per panel).

**3**

Upon completion of roofing the row at the bottommost tiles the corrugated tiles at the last panel of the row should be 20 mm apart from the gable end board.

**4**

Put SCG RT Clip Lock at the second row in the center of corrugate without using the screw to fix SCG RT Clip Lock with purlin as in the case of first row.

**5**

Install the tiles on the second row and next row by making a straight line. Never roof alternately since this can cause the lackage or cracking.

**6**

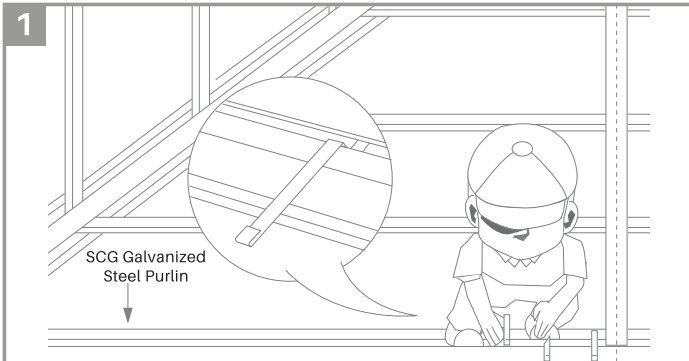
Continue installation of roofing until complete. At the end part, align both tiles to be in the same line, and then fix the upper edge of the tile to the batten panel with SCG Self Drilling Screw 32 mm. (embedded-head type).



## ▶ Installation of SCG Roman Tiles for Hip form roof

**Tip :** Roof is elegant without any extruding equipments on it by using SCG RT Clip Lock to fix with SCG Galvanized Steel Purlin for easier and more rapid work.

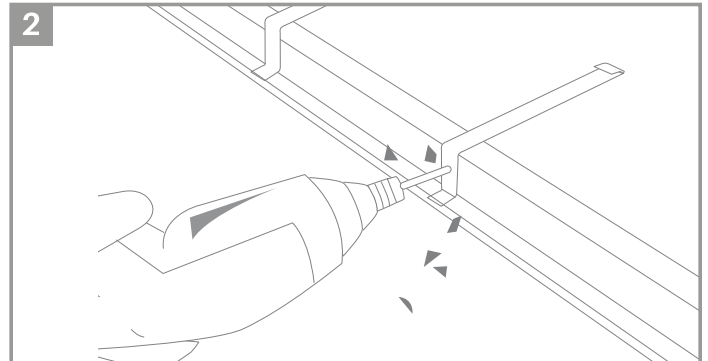
**1**



SCG Galvanized Steel Purlin

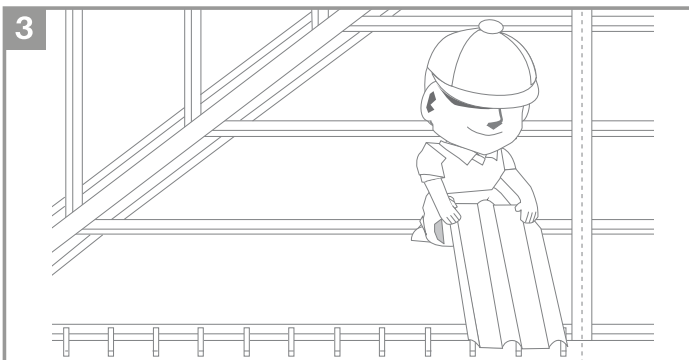
Start roofing SCG Roman Tiles from the middle line by using 2 of SCG RT Clip Lock for each batten in the first row.

**2**



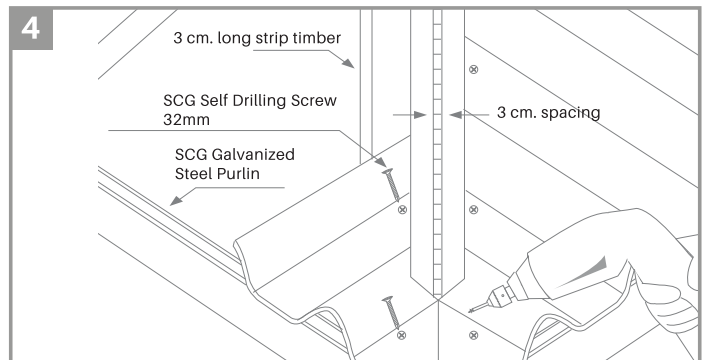
Screw SCG RT Clip Lock to the purlin by using SCG Self Drilling Screw 13 mm.

**3**



Install the first SCG Roman Tiles by lining the ridge to be aligned at the center line of roof, and continue roofing the next tiles until complete the row.

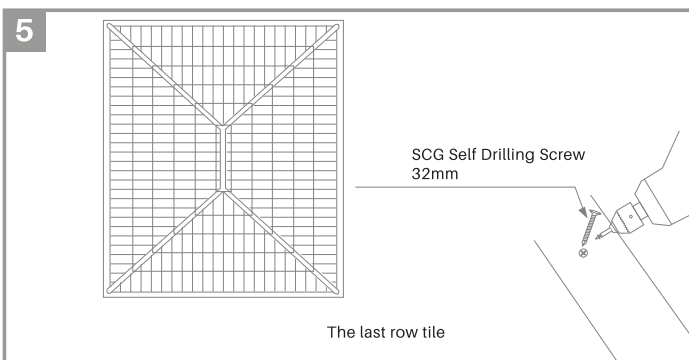
**4**



3 cm. long strip timber  
SCG Self Drilling Screw 32mm  
SCG Galvanized Steel Purlin  
3 cm. spacing

Screw the tile to long strip timber by using SCG Self Drilling Screw 32 mm, furnish by trimming to provide 3 cm space.

**5**

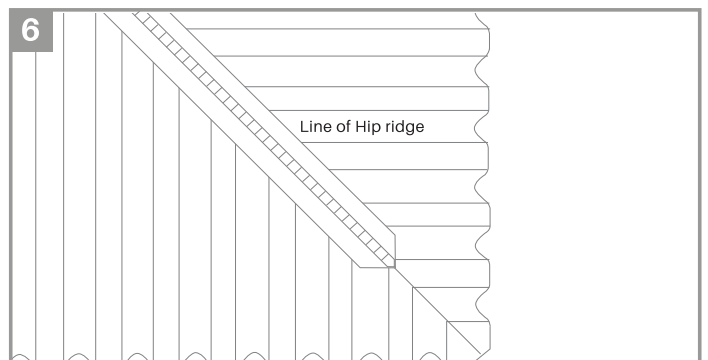


SCG Self Drilling Screw 32mm

The last row tile

Continue roofing until whole area is complete. At the last row of the roofing area, 2 sides of tiles must be kept aligned, then screw the edge of tiles on upper row to the batten by using SCG Self Drilling Screw 32 mm.

**6**

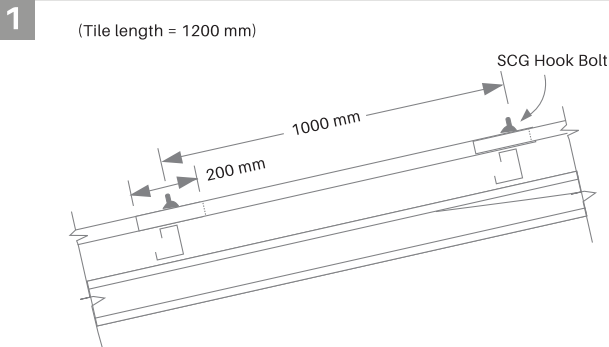


Line of Hip ridge

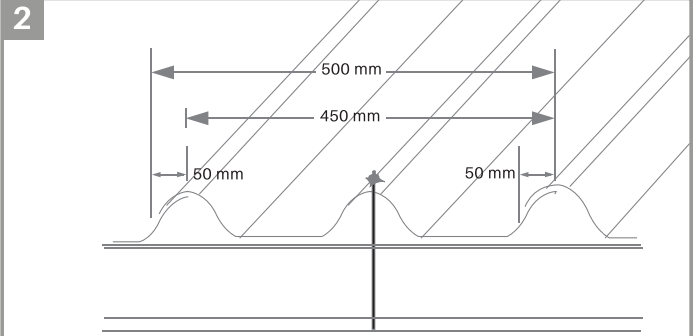
Two sides of tiles at hip ridge must be kept aligned as well.

## ► Installation of SCG Roman Tiles for other types of steel purlin

### Steel Purlin C75 x 45 x 2.3

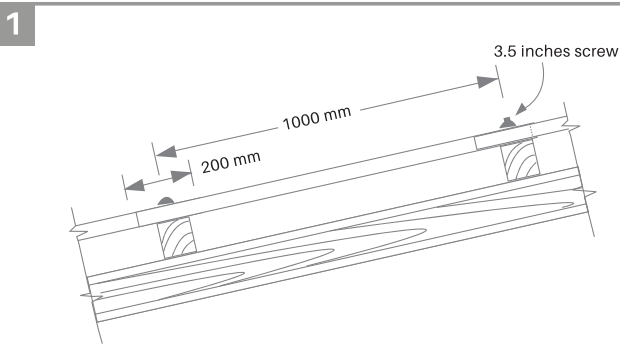


In case of C75 x 45 x 2.4 mm batten, roofing must be done 50 mm away from the batten in order to fix both upper and lower tiles and to prevent the tile from falling.

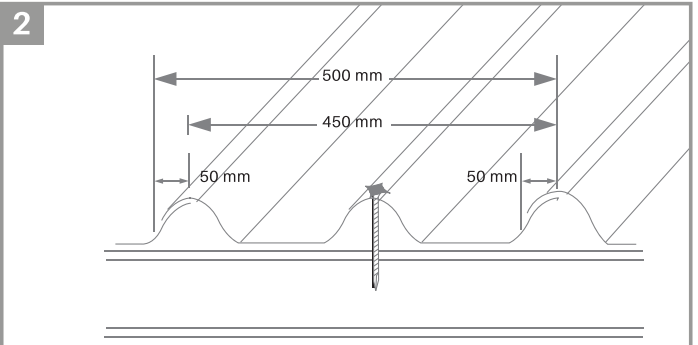


Fix SCG Roman Tiles at the center of the corrugated by using SCG hook set.

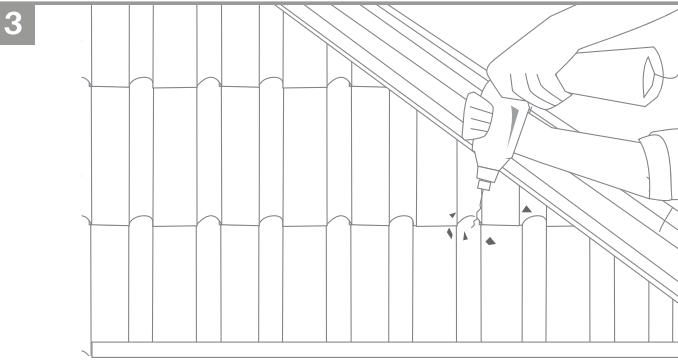
### Timber Purlin 1.5 x 3



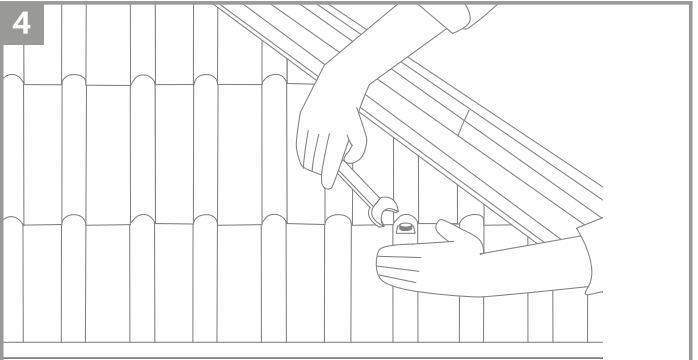
In case of 1.5 x 3 inches timber batten, roofing must be done 50 mm away from the batten in order to fix both upper and lower tiles and to prevent the tile from falling.



Screw SCG Roman Tiles at the center of the corrugated.



Install SCG Roman Tiles by using C shape purlin, and timber purlin, a 6 mm diameter drill will be used penetrate the roof tile.



Use No.10 open-end wrench to tighten the knot or screw just until you feel tense at hand, and then release it out half-round.

## ▶ Installation of SCG Valley Trough for SCG Roman Tiles and Prima

**Tip:** Use SCG Valley Trough to end a problem of trough spill over, because of deep valley which holds higher water volume, and allows faster drain when compared to other types (see details in page 15-16)

**1**

Center line of valley trough gutter

170 mm

For installation of SCG Valley Trough for roman tiles, make the pair of long strip timbers with 170 mm valley trough width or it, 85 mm measured from centerline of the valley trough to inner edge of strip timber. Use similar material with purlin, and install it at the spacing specified in the installation manual.

**2**

Line of eave

Fix the nail at gutter's flange edge

Place SCG Valley Trough from lower edge. Make the flange edge of valley trough to be aligned with the eave's line. Fix both sides of valley trough flanges to the purlin by using screw for steel purlin, or nail for timber purlin at 1000 mm spacing.

**3**

200 mm

Sealed by silicone

For jointing the SCG Valley Trough, place the upper valley trough over lower valley trough with at least 200 mm of lapping distance. Seal the joint with silicone, and fix both sides of valley trough flanges by using screw or binding wire.

**4**

Install to be as close as possible

For jointing SCG Valley Trough, in case 2 sides of valley trough meet each other. Cut the edge of SCG Valley Trough both sides at 45 degree inclination for to make the corners be jointed to valley trough by using a by zinc scissor. Then install as close as possible.

**5**

Make small rib at center line of flashing

Cut into half the SCG Flashing along longitudinal axis to get 2 plates of 17.5 x 50 cm. flashing. Use these SCG Flashings to cover the joint areas of gutters. Start attaching the first flashing from the flange edge of the lower gutter along the joint, and compress the flashing to be completely attached with the gutter.

**6**

100 mm

After that, attach the second flashing with 100 mm lapping distance over the first flashing until the farthest upper edge. Compress the SCG Flashing it to be completely attached with the valley trough along the line.

**7**

Fold up the valley trough head

Fold the valley trough flange to be adhere to purlin

In case of using one side valley trough, fold the edge near water receptor valley of SCG Valley Trough in order to make water barrier. Fix both edges of valley trough lunge to the upper pair of purlin by screw for steel purlin, or nail for timber purlin.

**8**

200 mm

For furnishing or trimming of SCG Valley Trough in case the valley trough edge is on the tile. Cut the valley trough edge in order to cover the lower tile for at least 200 mm, and then bend valley trough edge flatly.

## ▶ Installation of SCG Dry Ridge System

### Installation of round ridge by SCG Dry Ridge System

Tip: No more problem of blown ridge cover, unlevelled cover, by using SCG Dry Ridge System (see details in page 15 - 16)

**1**

Steel U-Leg

30 mm  
100 mm

Install the ridge supporting set to rafter at every 1000 mm spacing, to be about 10 mm higher than top of the purlin.

**2**

Ridge supporting C-Line steel

Position of screws fixing

Fix the ridge supporting C-Line steel by screw to the steel leg / steel frame, 2 screws for each side.

**3**

Determine the line of round ridge at the edge of both sides.

**4**

150 mm

Put SCG RT Clip Lock at the second row in the center of corrugate without using the screw to fix SCG RT Clip Lock with purlin as in the case of first row.

**5**

150 mm

Install the next round ridge by put the ridge fit to each corrugated of tile. Provide equal lapping distances. Alignment of whole roof ridge must be a straight line.

**6**

80 mm  
150 mm

SCG Drilling Screw

Round Hip End Ridge

Barge

Barge End

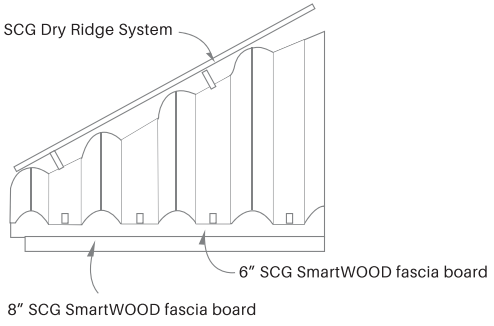
Round ridge

Install round hip end ridge at gable. Fix the ridge by using SCG Drilling Screw after installing the barge, and round ridge.

### Installation of round hip ridge by SCG Dry Ridge System

**Tip:** Solve the problem of blown ridge cover, unlevelled cover by using SCG Dry Ridge System (see details in page 15-16)

**1**



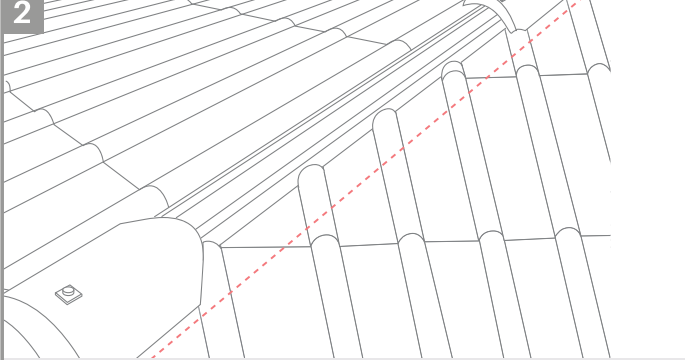
SCG Dry Ridge System

6" SCG SmartWOOD fascia board

8" SCG SmartWOOD fascia board

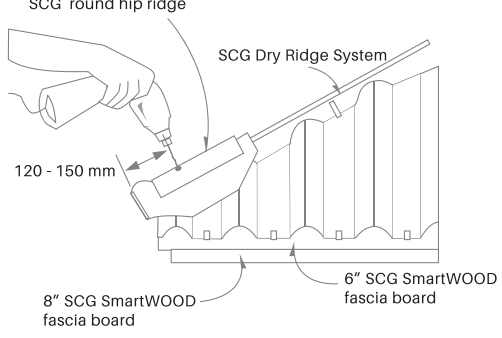
Install hip ridge supporting set to the line of hip ridge at about 100 mm higher than top of the purlin, at 1000 mm spacing (similar to the roof ridge).

**2**



Install round hip ridge, starting from the bottom edge of hip ridge line. Determine the line of round hip ridge at both edges.

**3**



SCG round hip ridge

SCG Dry Ridge System

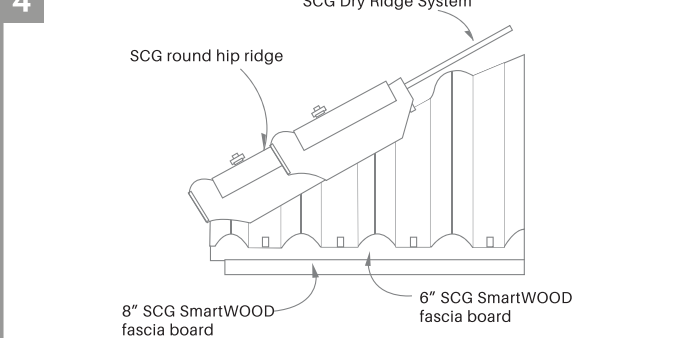
120 - 150 mm

8" SCG SmartWOOD fascia board

6" SCG SmartWOOD fascia board

Install round hip ridge, starting from the bottom edge of hip ridge line by using ridge fixing screw.

**4**



SCG Dry Ridge System

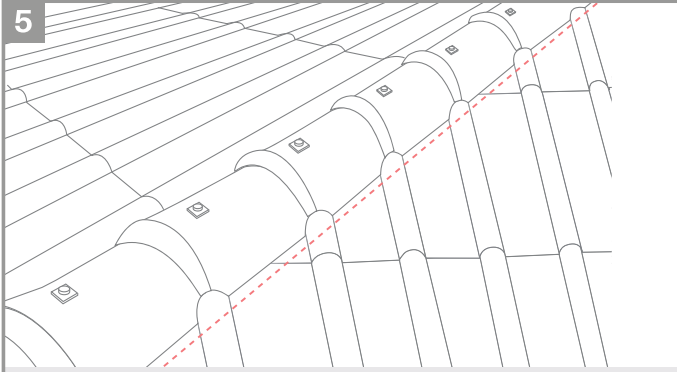
SCG round hip ridge

8" SCG SmartWOOD fascia board

6" SCG SmartWOOD fascia board

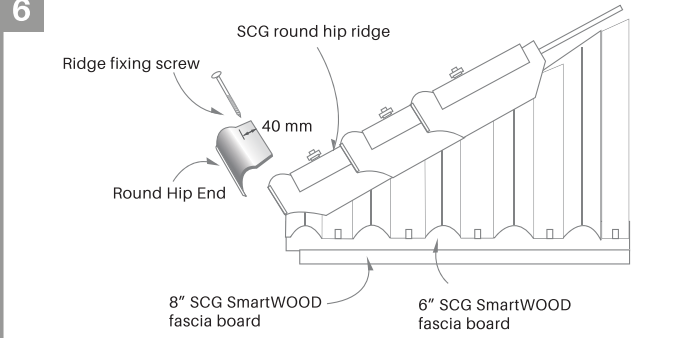
Fix the next round hip ridge by allocation to match with the tiles, using by ridge fixing screw.

**5**



Install all round hip ridge by trying to maintain the ridge line to be aligned as a line.

**6**



SCG round hip ridge

Ridge fixing screw

40 mm

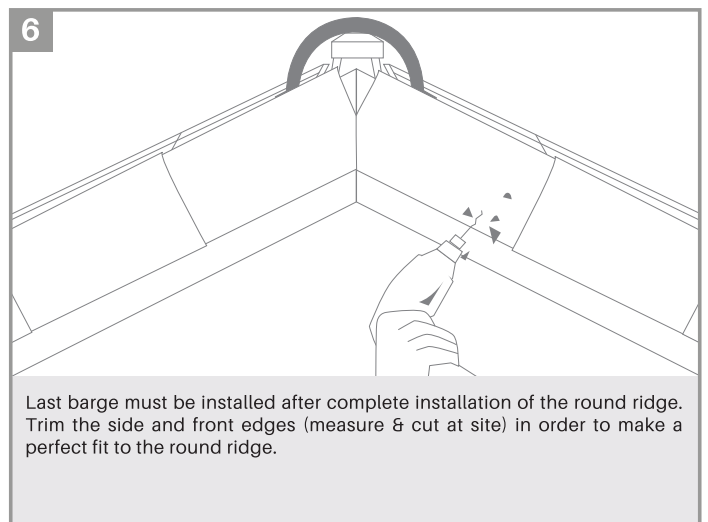
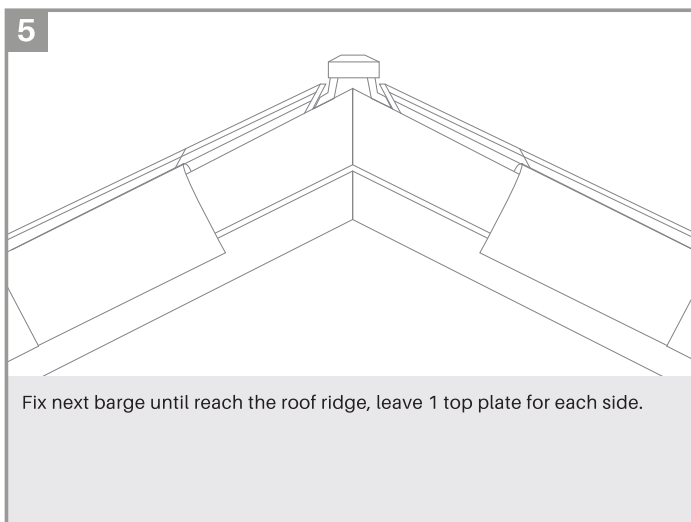
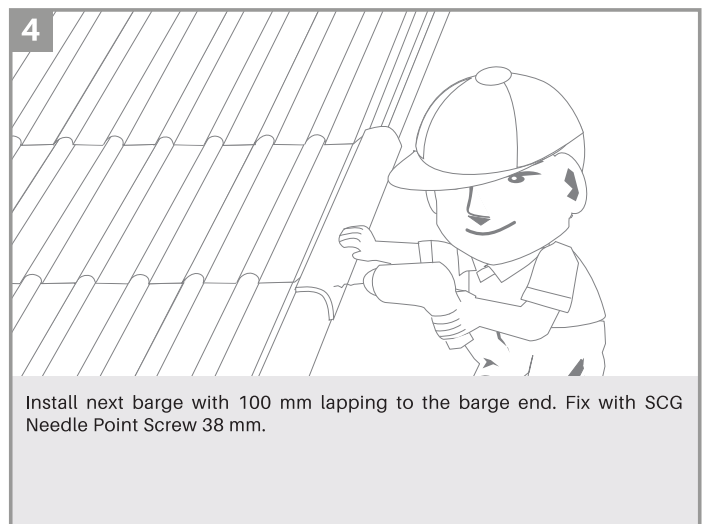
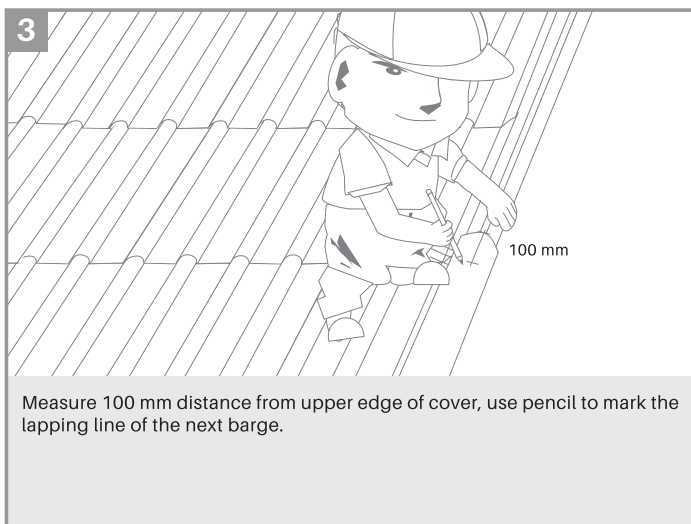
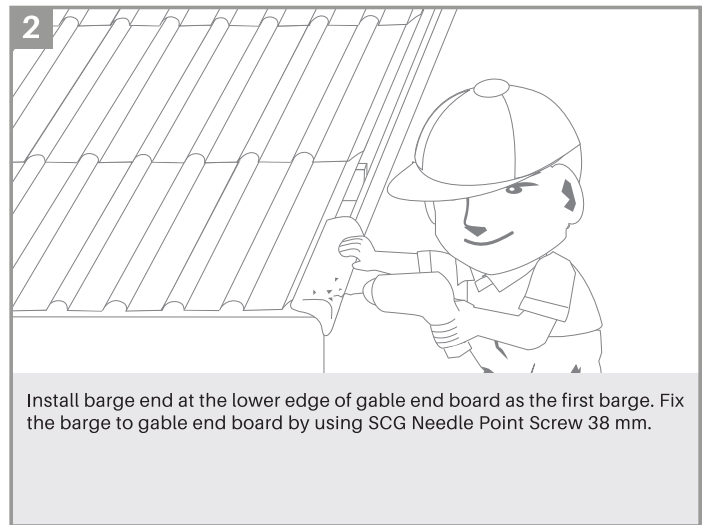
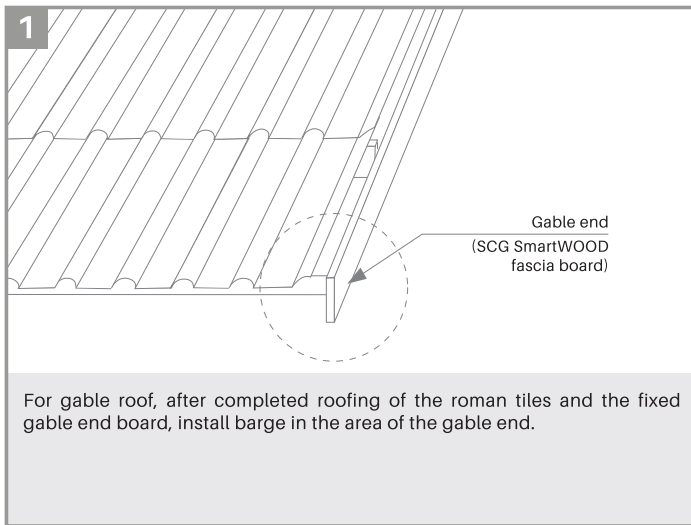
Round Hip End

8" SCG SmartWOOD fascia board

6" SCG SmartWOOD fascia board

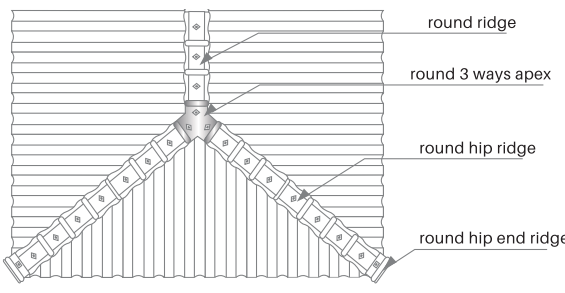
Install round hip end ridge at the end of hip ridge by using ridge fixing screw.

### Installation of barge by SCG Dry Ridge System



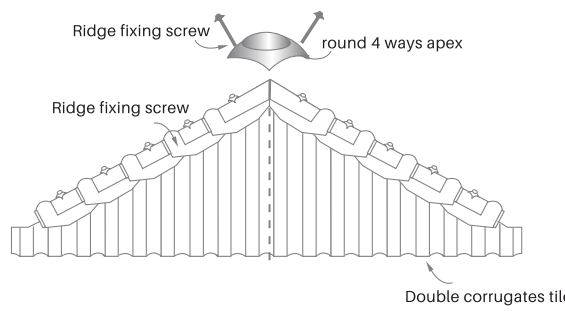
Installation of round 3 ways apex, 4 ways apex and wall ridge by using SCG Dry Ridge System

**Installation of round 3 ways apex**



Install round 3 ways apex over the round hip ridge, screw the round 3 ways apex and both sides of round hip ridge and ridgepole.

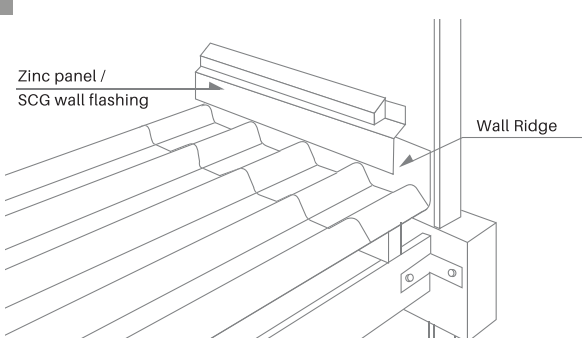
**Installation of round 4 ways apex**



Install round 4 ways apex over the round hip ridge, screw the round 4 ways apex and 4 sides of hip ridge.

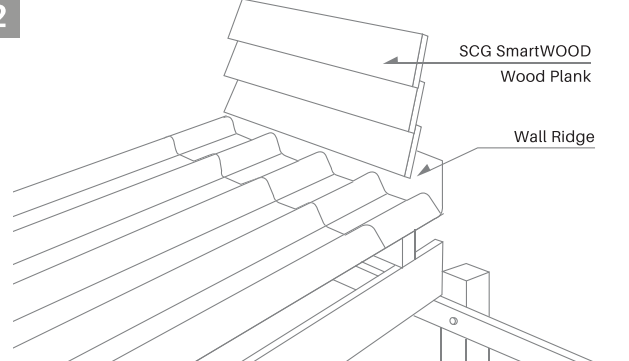
**Installation of Wall Ridge**

**1**



In case of plastering brick wall, use 1 of ridge fixing screw for 1 of the wall ridge to fix at center of corrugated. The direction of shingling shall be similar to that roman tiles. Place the water protective flashing on top.

**2**

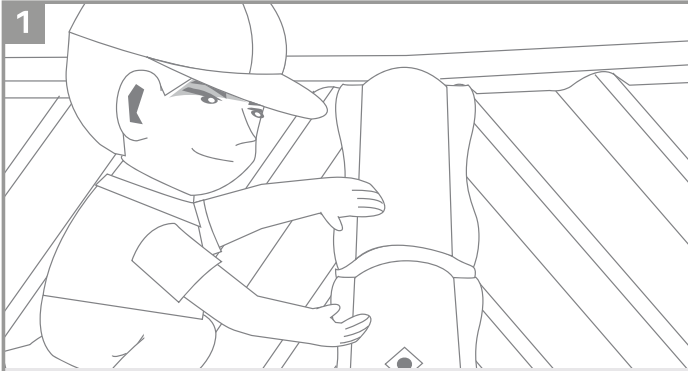


In case of using SCG SmartWOOD wood plank, or SCG SmartBOARD, insert the wall ridge inside of SCG SmartWOOD, or SCG SmartBOARD. Barge shall be installed after complete installation of wall ridge.

## ▶ Installation of SCG Flashing

**Tip:** • Use SCG Flashing with 35 cm. width, 50 cm. length, for SCG Roman Tiles only. The product can be used to cover the wide joint, because of its larger size.

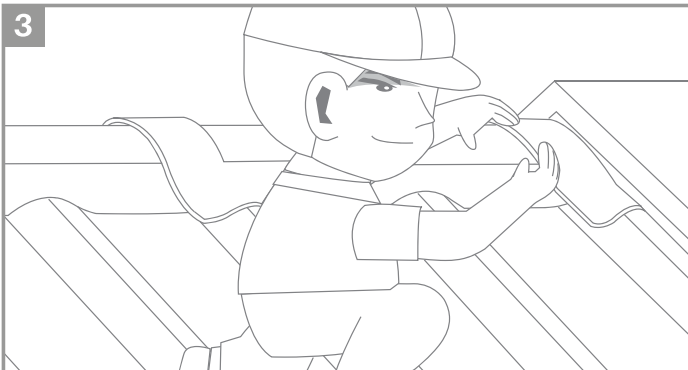
- Perfectly adhered to corrugate shape without peeling by putting adhesive glue at the flashing, including reinforced luminum at middle core. (see details in pages 15-16)



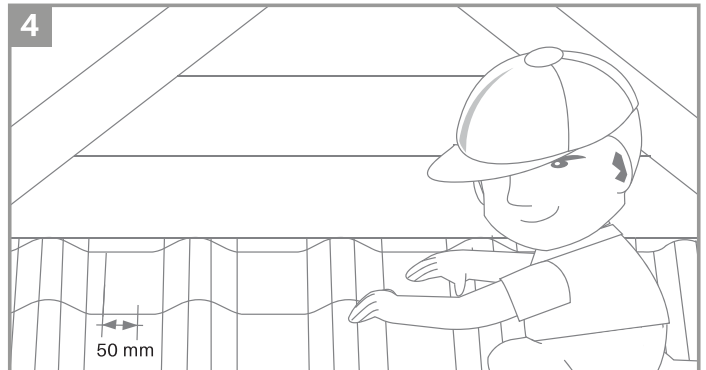
1  
In the area that hip ridge meets the reinforced concrete flange, leave gap between round ridge and RC flange about 30 mm. Fold the edge of SCG Flashing and insert under RC flange, compress SCG Flashing to perfectly adhere with round ridge and tile panel.



2  
In the area that hip ridge meets the gable end, insert SCG Flashing under the gable end and cover the round ridge. Compress SCG Flashing to perfectly adhere with round ridge and tile panel.



3  
In the area that roof ridge meets the reinforced concrete flange, install the round ridge to line of RC flange. Leave gap between round ridge and RC flange about 30 mm. Slightly fold the edge of SCG Flashing and insert under RC flange, compress SCG Flashing to perfectly adhere with round ridge and tile panel.



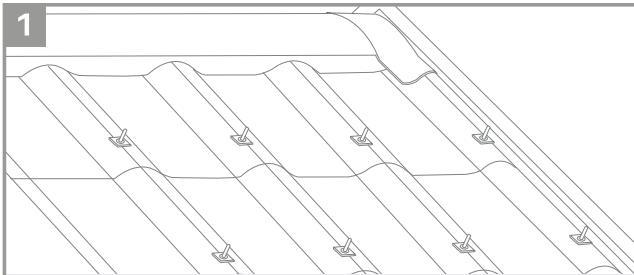
4  
In the area of pediment, insert SCG Flashing in the pediment for about 200 mm height, with 50 mm of side lapping distance.



▶ **Prevention and Solution for the wrong installation of SCG Roman Tiles**

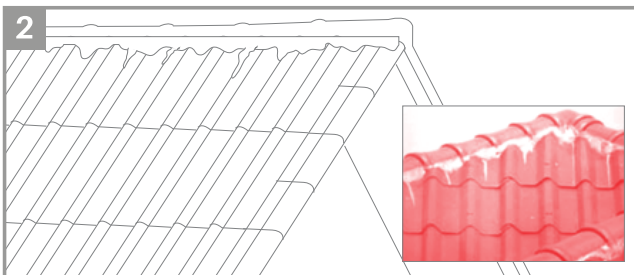
**Water Leakage Problem**

**1**



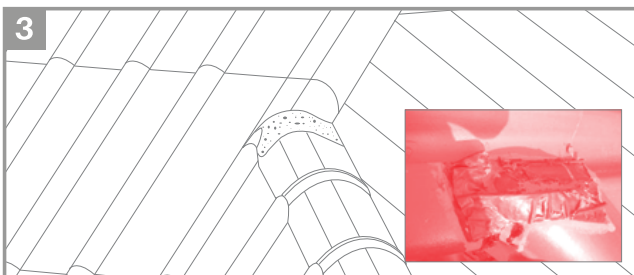
Poor aesthetic appearance of the roof, risk to leakage and rusting because of using low quality hook bolt or screw.

**2**



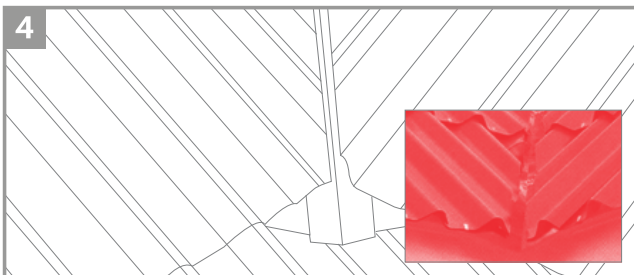
Blown ridge, dirt stains on roof panel, because installed the roof ridge cover by cementing under the ridge resulting in spilling of cement water. Painting over the cement water will also result in poor roof coloring.

**3**



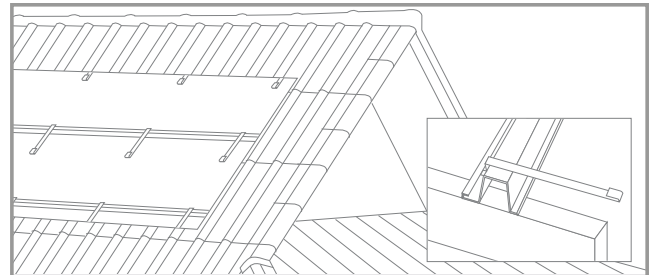
Leakage on the roof at the jointing area, because of using wrong joint materials, such as zinc plate or cement, which cannot perfectly seal the joint, and can be easily peeled off.

**4**

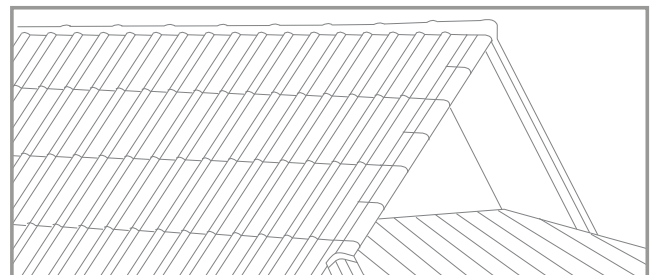


Using of normal gully which provides narrow flange will cause the over spilling, roof leakage and easily can corrosion because of using low quality zinc gully.

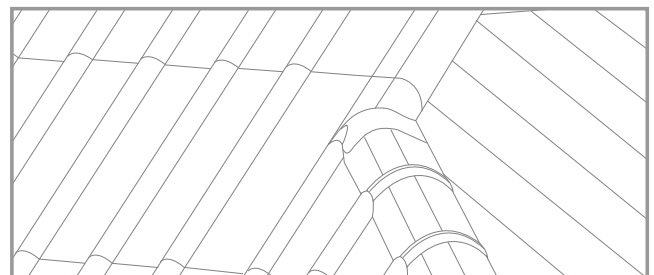
**Solution Method**



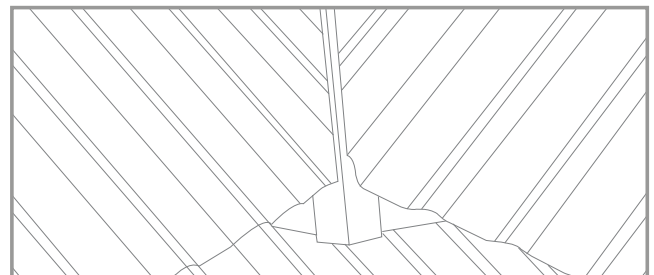
Use SCG RT Clip Lock with SCG Galvanized Steel Purlin. The appearance of the whole roof will be authentic beautiful (see details in page 15).



Long-lasting color roof because of using SCG Dry Ridge System from the factory. Roof ridge cover or hip ridge cover will be fixed tightly to the roof avoiding leakage problem resulting from blown covers and with the right leveling, there will be no stains from cement water on the roof (see details in page 16).



All joints on roof shall be sealed by SCG Flashing. The joint will be perfectly sealed, and endure because of glue matrix and additional reinforced mesh which can be easily compressed, endurance for tearing (see details in page 16).



Use SCG Valley Trough which provides wider flange and deeper valley. (see details in page 16).

## SCG Cover Set and Accessories

### SCG Curve cover set

Used for roof with 20 - 40 degree slope

<p><b>1</b></p> <p><b>Round Ridge</b> Cover along whole roof ridge (2.2 panels/1 m of roof ridge)</p>	<p><b>2</b></p> <p><b>Round Hip Ridge</b> Cover along whole hip ridge (2.5 panels/1 m of hip ridge)</p>
<p><b>3</b></p> <p><b>Round Hip End Ridge</b> Cover gable of gable roof or cover edge of hip ridge</p>	<p><b>4</b></p> <p><b>Round 3 ways Apex</b> Cover point where roof ridge joins hip ridges, for hip form roof</p>
<p><b>5</b></p> <p><b>Round 4 ways Apex</b> Cover point where 4 sides of hip ridge joined together, for hip form roof</p>	<p><b>6</b></p> <p><b>Barge</b> Cover gable end of gable form roof (2 panel/1 m of gable end)</p>
<p><b>7</b></p> <p><b>Barge End</b> Continue from last rake cover at gable end area of gable form roof</p>	<p><b>8</b></p> <p><b>Wall Ridge</b> Cover at tile edge jointing with the wall panel (2.2 panel / 1 m of wall)</p>

### SCG Corner cover set

Used for roof with 15 - 40 degree slope

<p><b>Adjustable Angle Ridge</b> Cover roof ridge for roof with 15 - 40 degree slope</p>	<p><b>Adjustable End Ridge</b> Cover gable for gable form roof</p>
<p><b>Ridge (15 &amp; 20 degree)</b> Cover roof ridge for roof with 15 and 20 degree slope (available only cement gray color)</p>	



### SCG Accessories

<p><b>9</b></p> <p><b>SCG Galvanized Steel Purlin and Clip Lock</b> For installation with roof tile without necessity of tile's penetration, easily installed, rust free, no roof leakage, high strength and safe Containment : 5 pieces / wrap</p>	<p><b>10</b></p> <p><b>SCG Roman Tiles Hook Belt</b> Used for install the roof tiles with timber batten or C-steel batten, no more roof leakage problem Length : 5, 6, 7, 8, 9 and 10 inches Containment : 300 set / box</p>	<p><b>10</b></p> <p><b>SCG Dry Ridge System</b> Used for installation with curve ridge cover and curve hip ridge cover Contain : 1 set can be used for installation of round ridge or round hip ridge for 3 m. length</p>
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<p><b>11</b></p> <p><b>SCG Valley Trough</b> For valley trough gutter, wide and deep, allow rapid drain(stainless steel) Length : 2 m. / palen Flange width : 184 mm Valley depth : 50 mm</p>	<p><b>12</b></p> <p><b>SCG Flashing</b> Used for seal joints on roof, prevent roof leakage, adhere to the corrugate form Contain : 1 piece / box 350 mm width, 50 mm length, 2 mm thickness</p>
<p><b>13</b></p> <p><b>SCG Roman Tiles Eave Filler Set</b> Used for cover the eave, prevent small animal Contain : 10 pieces / box, including screws cover for 4.5 m length of eave</p>	<p><b>14</b></p> <p><b>SCG Roman Tiles Roofing Paint</b> Used for immediate repair of roof color, same color shade with SCG Roman Tiles Contain : 2 kg / can</p>
<p><b>15</b></p> <p><b>SCG Needle Point Screw 38 mm</b> Used to fix the eave board in the area of eave and gable end in order to strengthen the installation. The screw is embedded-head type, perfectly match with the cover's surface after advanced drill, sharp-end, endurance, high strength. Contain : 250 pieces / box</p>	
<p><b>16</b></p> <p><b>SCG Self Drilling Screw 38 mm</b> Used for fixing of SCG Galvanized Steel Purlin with steel rafter, and fix SCG RT Clip Lock and SCG Galvanized Steel Purlin in the edge row of all sides, in order to strengthen. The screw is pin-head type, endurance, Self-drilling, easy for operation without advanced drill. Contain : 500 pieces / box</p>	
<p><b>17</b></p> <p><b>SCG Self Drilling Screw 32 mm</b> Used for fixing of roman tiles in the edge row of all sides, roof ridge side, gable end side, eave side, and hip ridge side. The screw will enhance strength, Self-drilling embedded-head type, easy for operation without advanced drill. Contain : 500 pieces / box</p>	

# Specification for installation of SCG Roman Tiles



## Caution

- Do not use as structural part of any building, or other purposes. Installation shall follow installation manual, and use only qualified standard equipments from manufacturer.



Do not eat



Do not inhale



## Precaution to avoid danger

- SCG fiber cement roof product has been designed and specified for the operation method which suits the condition of application in Thailand only. Application outside Thailand shall be under direct responsibility of the designer, construction supervisor and installer.

### For Designer

- Any qualification specified in this document is the average value derived from testing of product under specified standard by sampling from group of products during period prior distribution only.
- Specifications for any installation are the fundamental recommendations for residential house, or any building with height from ground to roof ridge less than 23 m only. For any other buildings, or building with considerable risk shall consider the wind load effect in structural design and joint method. If the design calculation is required with no certified document from any reliable institute, unit wind load following Item No. 17 of 6th Edition of the Ministry Regulation (1984) as designated by the Act of Building (1979).
- Application of the products other than those specified in this installation manual shall be under the direct responsibility of the designer, construction supervisor.

### For Installer and User

- Any installation specification are the fundamental recommendations for normal application only. For determination of the installation method, and applicable structure, shall consider standard for Structural Steel EIT 1015-40, and Design Specification following the 6th Edition of the Ministry Regulation (1984) as designated by the Act of Building (1979).
- Product application other than those specified in this installation manual shall be consulted with the design architect design engineer.



## Recommendation for safety operation

- Fiber cement SCG roof is composed of cement materials. Cutting, grinding, penetration, or polishing of products may cause blowing dust. If this dust is eaten, or inhaled to human body at considerable amount, and time, this may cause danger to the respiratory system and body.
- Cutting, grinding, penetration, or polishing of products shall be carried out in an area with good ventilation. Avoid using the machine for cutting, grinding, penetration, or polishing of products that can cause high amount of dust.
- Do not work during storm or heavy rain, or when roof is wet.
- Wear personal protection equipments, such as dust protection mask, safety goggle, clothes, gloves, shoes.
- Any personnel without personal protection equipments or is not related to the operation, shall approach working area in order to avoid possible danger.
- Lifting or relocation of products shall be carried out with special attention. Do not bend one's back down for lifting, nor twist one's body or never change direction during lifting. In addition, avoid working in long period to prevent injury and fatigue.
- Whenever the lifting is required, one must lift by lowering knee down, and hold firmly. Then use strength from your leg to lift up.
- Cleaning of working area after cutting, grinding, penetration, or polishing of products shall be carried out by vacuum machine. Dust container shall be sealed tightly or cleaned by water. Do not clean by sweeping which will cause dust scattering.
- Separate and collect any debris from the installation, repair, dismantle of products with special attention. Eliminate those by appropriate and sanitarian method specified by the government.
- Clean one's body by using clean water after cutting, grinding, penetration, or polishing any products.

### First Aid

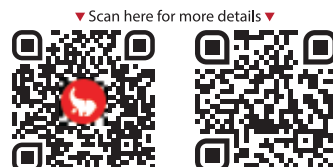
- If any dust or material debris enters one's eye, do not rub or scratch the eyes. Immediately, clean with water several times, and bring to the physician.

### Verify that the installation manual of product is the latest one

- Installation manual of product is always improved. The designer, construction supervisor, and installer shall always verify that the installation manual of product being used is the latest version. In case of uncertainty, verify or inspect at [www.siamfibrecement.com](http://www.siamfibrecement.com)

### Malaysia Infoline 018-399 2122

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