



# Installation Manual for SCG Roman Tiles

**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 100 cm. batten spacing for 120 cm. 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

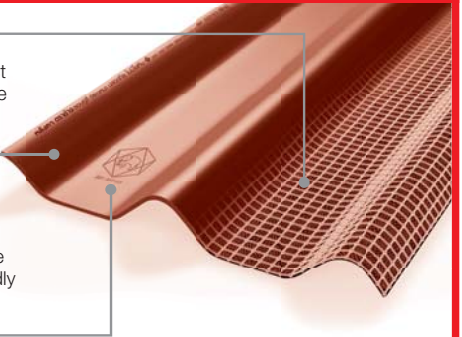
- Since there is no Asbestos in the product composition, it is safe to use. You can be worry free.

### 5.5 mm. Thickness

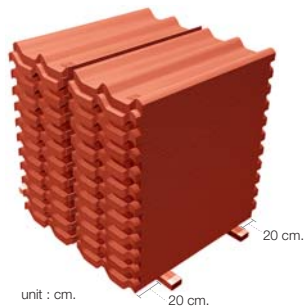
- SCG Roman Tiles provides 5.5 mm. thickness. Therefore, the roof is more robust and strong compared to lighter model (4.4 mm. thickness). Moreover, the product is worth the price, since it is hardly requires replacement.

### 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 20 cm. from each edge.
  - For 120 cm. length tile, use 2 pieces of timber
  - For 150 cm. length tile, use 3 pieces of timber by putting 1 piece at the center
- 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

1



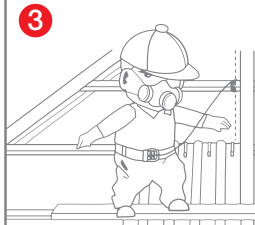
Always wear personal protection equipments, such as safety helmet, rubber shoes, and gloves, etc.

2



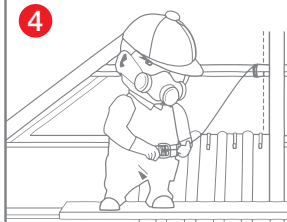
Always wear dust protection equipments, such as dust protection goggle, dust protection mask during tiles cutting in order to prevent dust from entering your eyes and nose.

3



When walking on the roof tiles, always step on where battens are placed directly beneath it. To ensure safety, place 1.5"x4" timber pieces on tiles which are in the same batten alignment when walking on roof.

4



Whenever working on the roof, always wear a safety belt that can be firmly hold the structures.

## TECHNICAL INFORMATION

Detail Specification	Size : width x length (cm.)	
	50 x 120	50 x 150
Thickness (mm.)	5.5	5.5
Weight (kg. / tile)	6.7	8.4
Tile/sq.m.	2.2	1.7
Roof slope (degree)	15 - 40	15 - 40
Batten spacing (cm.)	100	130
Industrial standard	TIS.1407-2540	
color	Cement grey, Red, Green, Brown, Cocoa, Light blue, Marine green, Shiny pearl blue, Shiny pearl green, Shiny pearl red, Shiny pearl purple, Shiny pearl orange	



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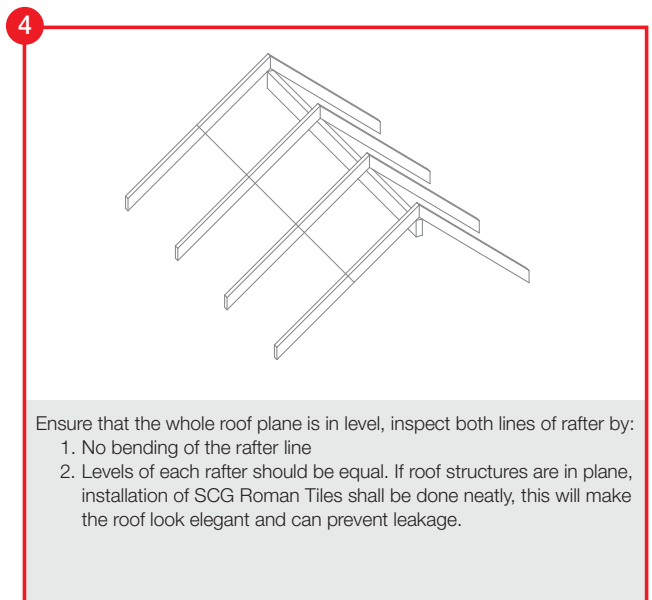
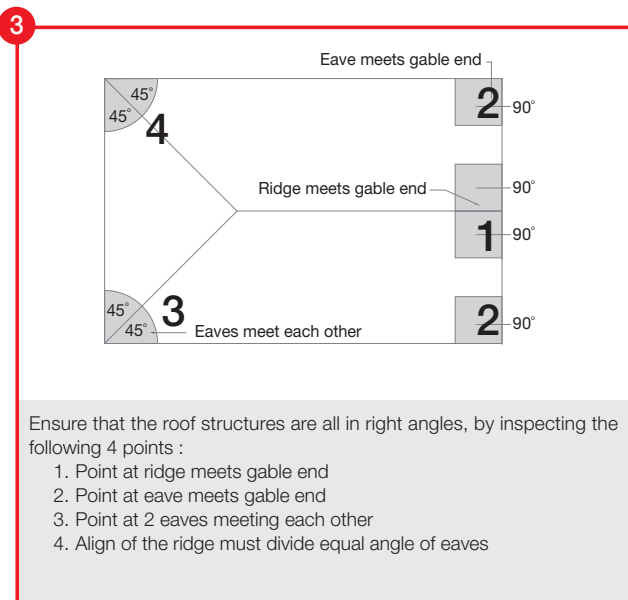
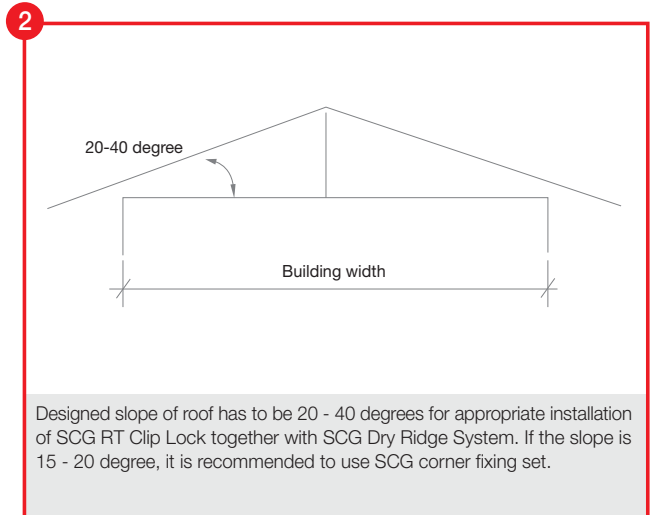
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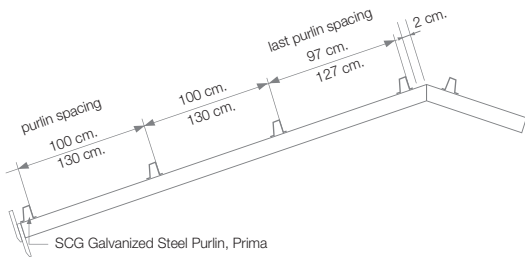
## Installation equipment and recommendation for installation of SCG Roman Tiles

### TOOLS

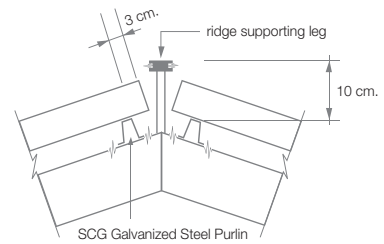


### Installation Method

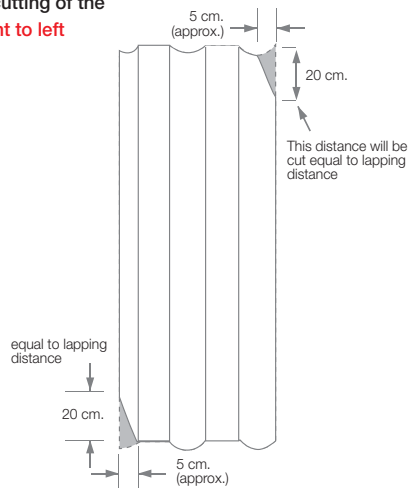
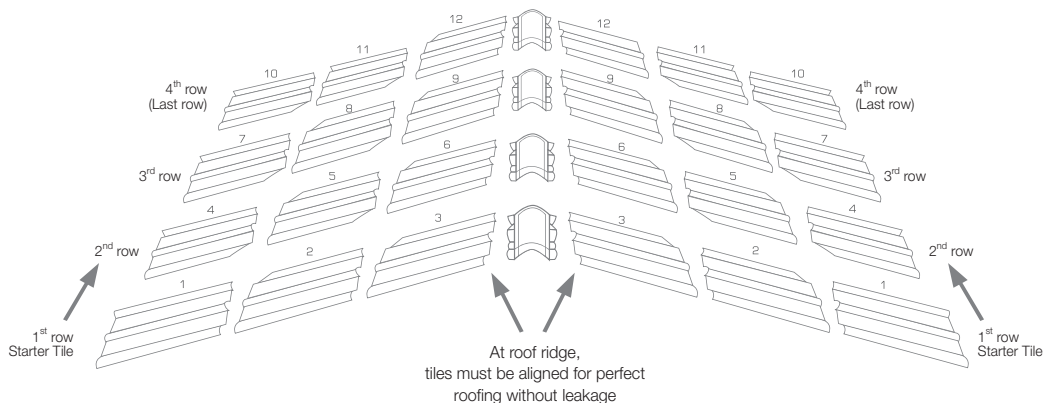
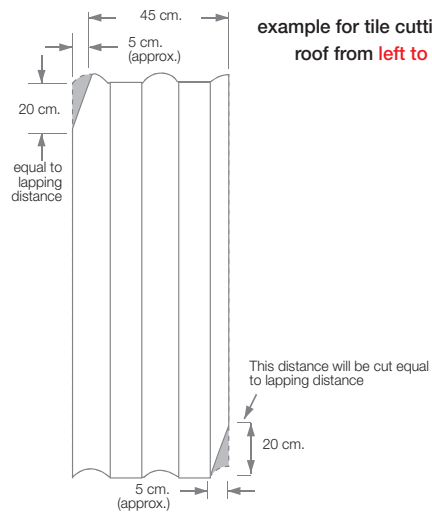


**5**

**Purlin Spacing**

1. 120 cm. length tile, 100 cm. purlin typical spacing, 97 cm. for last purlin
2. 150 cm. length tile, 130 cm. purlin typical spacing, 127 cm. for last purlin  
Lapping tile distance = 20 cm.

**6**


**Tiles in last row :** install tile edge 3 cm. 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.

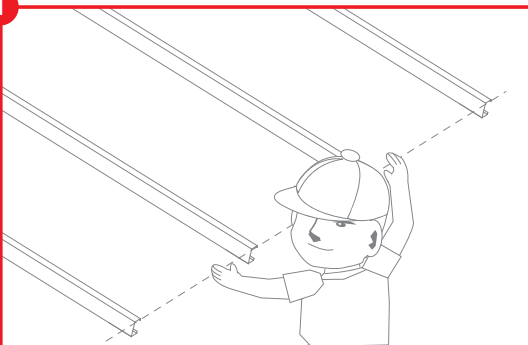
**7**
**example for tile cutting of the roof rom right to left**

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

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

# 2

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

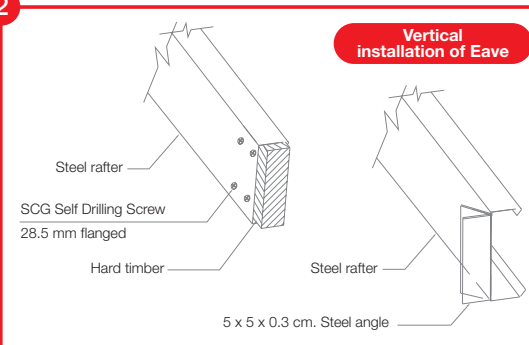
**1**



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**

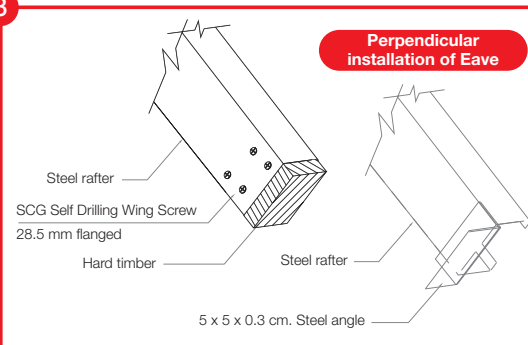


Steel rafter  
SCG Self Drilling Screw 28.5 mm flanged  
Hard timber  
5 x 5 x 0.3 cm. Steel angle  
Steel rafter

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

**3**

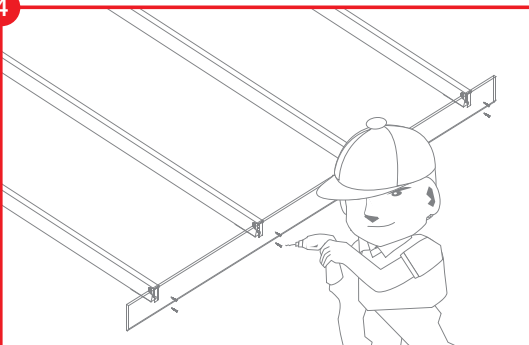
**Perpendicular installation of Eave**



Steel rafter  
SCG Self Drilling Wing Screw 28.5 mm flanged  
Hard timber  
Steel rafter  
5 x 5 x 0.3 cm. Steel angle

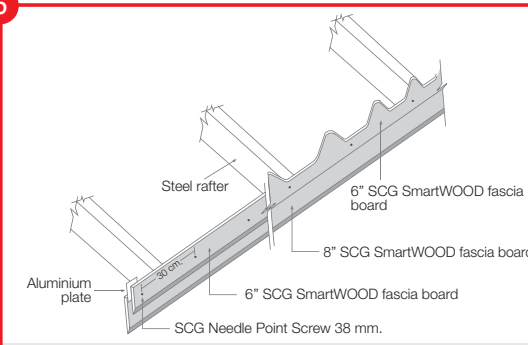
Install hard timber or angle steel perpendicular to rafter line, then fixed by SCG Self Drilling Wing Screw 28.5 mm. flanged for hard timber.

**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.

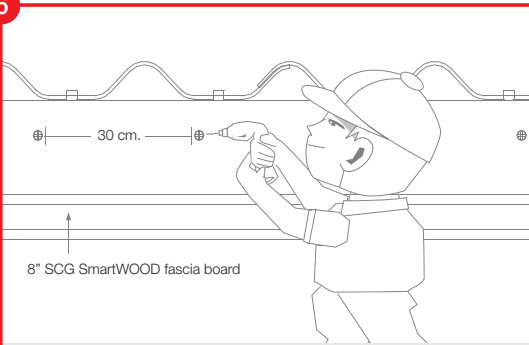
**5**



Steel rafter  
6" SCG SmartWOOD fascia board  
8" SCG SmartWOOD fascia board  
Aluminium plate  
6" SCG SmartWOOD fascia board  
SCG Needle Point Screw 38 mm.

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 30 cm. spacing.

**6**



30 cm.  
8" SCG SmartWOOD fascia board

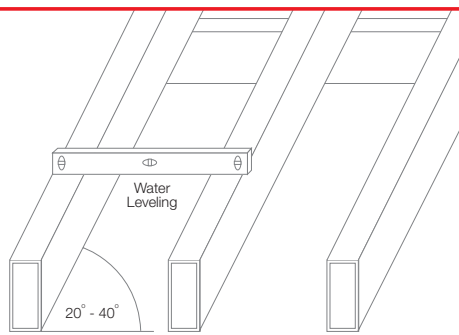
\* In case of using SCG Roman Tiles Eave Filler Set, this shall be covered by 6" SCG SmartWOOD eave board fixed by 38 mm. fully-embedded type of sharp-end SCG screw at every 30 cm. spacing (in case of fixing rafter, use 55 mm. Self-drilling screw), drive the screw to be fully embedded into eave matrix.

\* 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.

### 3. 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)

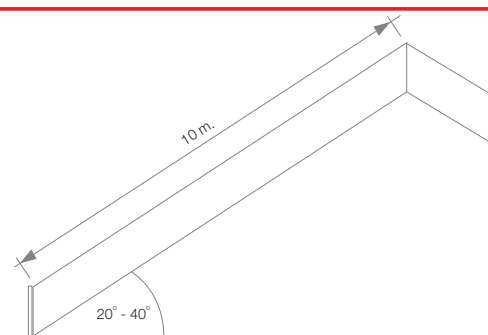
**1**



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).

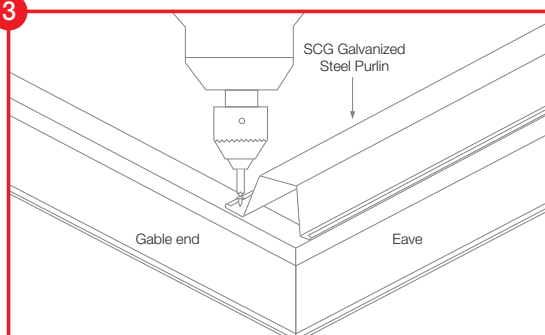
**2**



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.

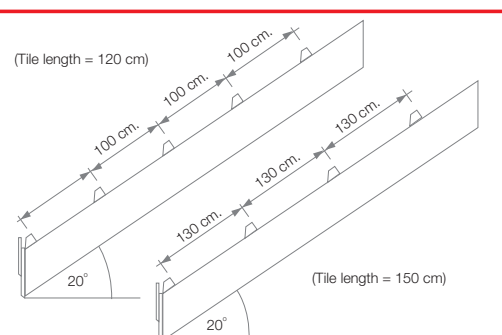
**3**



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).

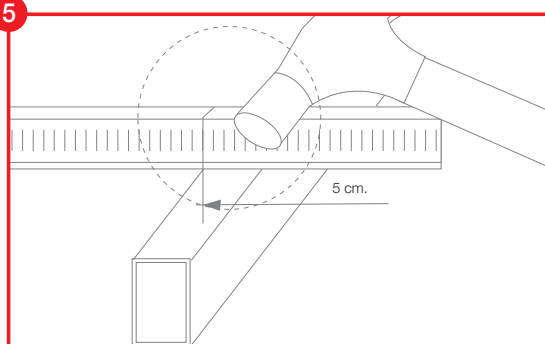
**4**



(Tile length = 120 cm)  
100 cm. 100 cm. 100 cm.  
20°  
130 cm. 130 cm. 130 cm.  
20°  
(Tile length = 150 cm)

Use SCG Self Drilling Screw 13 mm. to install the next purlin with space at 100 cm. (tile length = 120 cm.) or 130 cm. (tile length = 150 cm.)

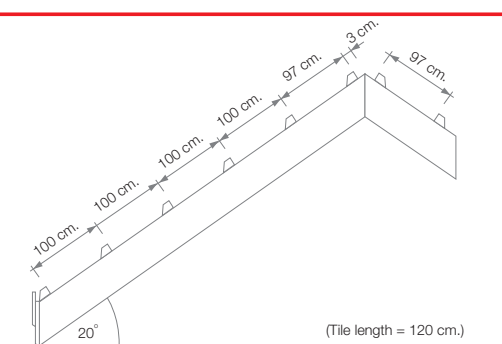
**5**



5 cm.

In case batten jointing is required, this shall be done in the rafter area only, with 5 cm. lapping distance. Hit the batten leg in lapping area evenly, then fix by SCG Self Drilling Screw 13 mm .

**6**



100 cm. 100 cm. 100 cm. 97 cm. 3 cm. 97 cm.  
20°  
(Tile length = 120 cm.)

Provide 97 cm. spacing for the last batten, and leave 3 cm. distance from rafter's end for the uppermost batten.

# 4.

## Gable form roof : Installation of roman tile by using SCG RT Clip Lock

**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 2 cm. 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 leakage or cracking.

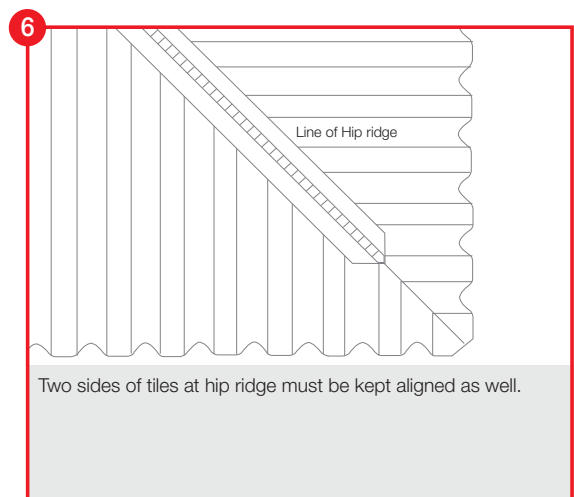
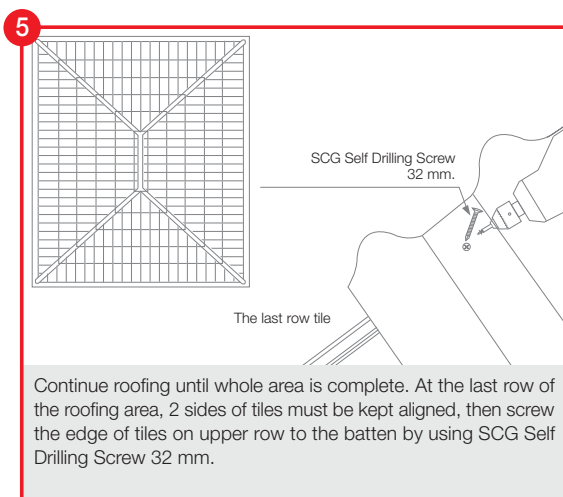
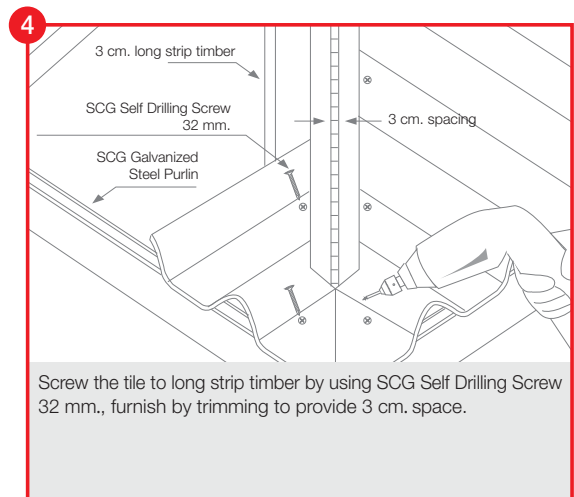
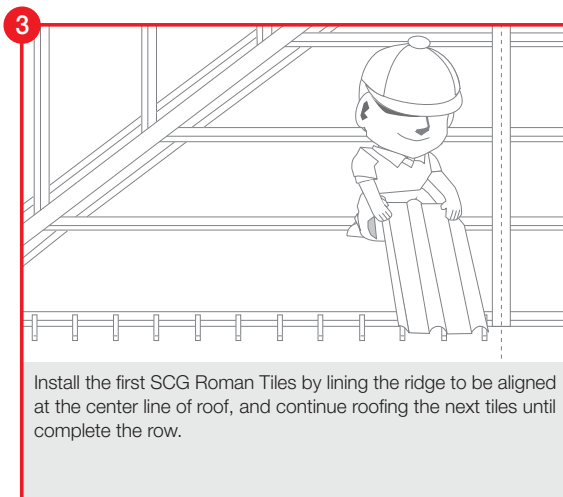
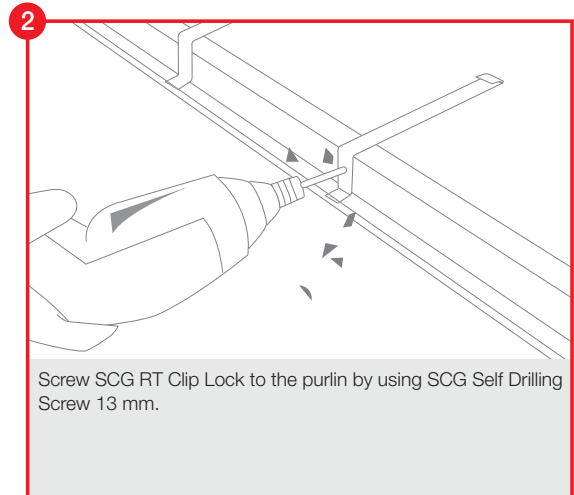
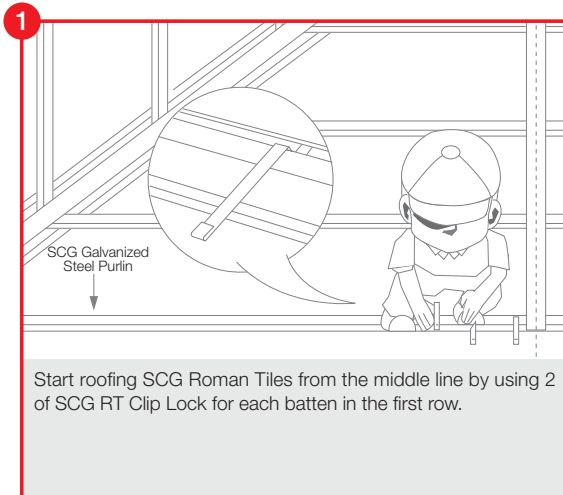
**6**

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).



**5.**
**Hip form roof : Installation of SCG Galvanized Steel Purlin and SCG RT Clip Lock**

**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.



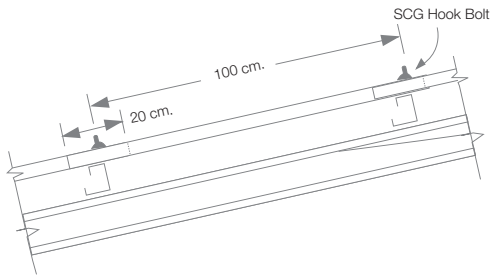
# 6.

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

### Steel Purlin C75 x 45 x 2.3

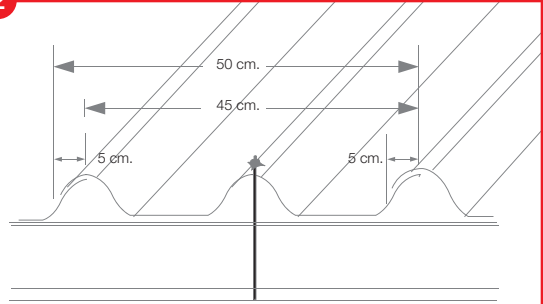
1

(Tile length = 120 cm.)



In case of C75 x 45 x 2.4 mm. batten, roofing must be done 5 cm. away from the batten in order to fix both upper and lower tiles and to prevent the tile from falling.

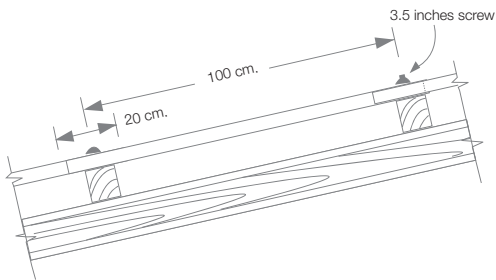
2



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

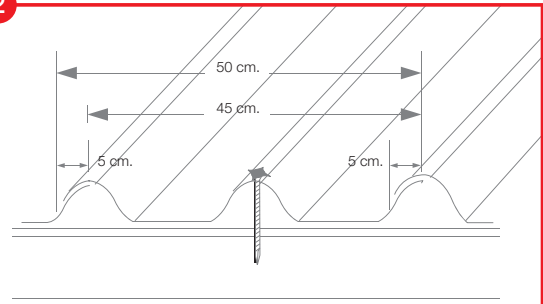
### Timber Purlin 1.5 x 3"

1



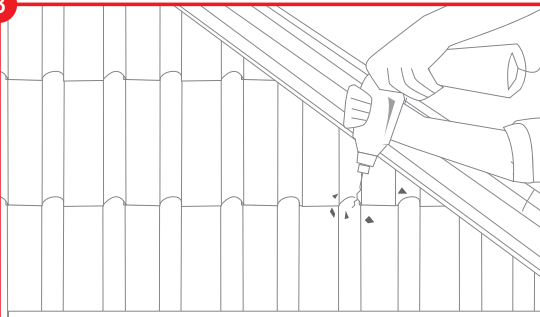
In case of 1.5 x 3 inches timber batten, roofing must be done 5 cm. away from the batten in order to fix both upper and lower tiles and to prevent the tile from falling.

2



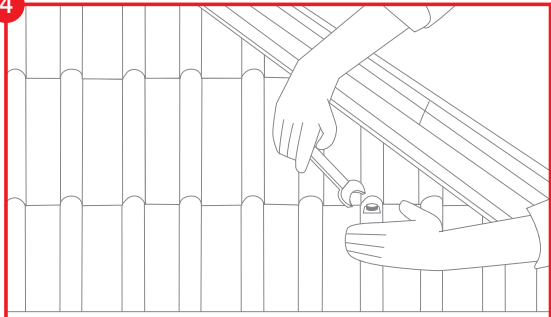
Screw SCG Roman Tiles at the center of the corrugated.

3



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

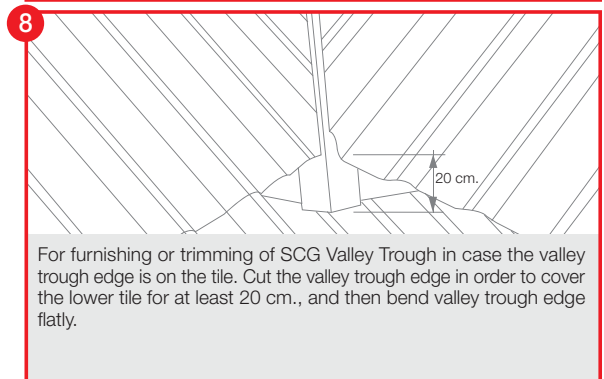
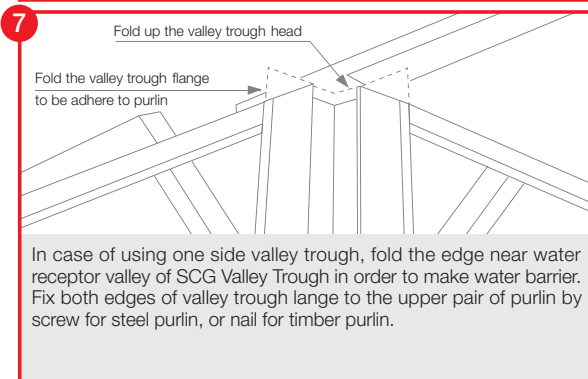
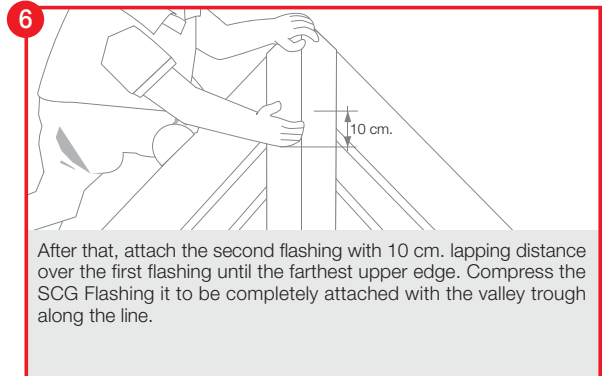
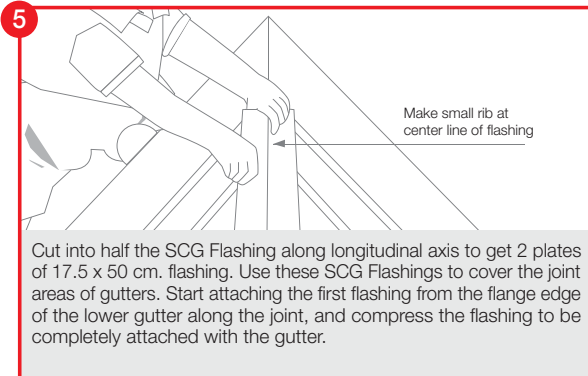
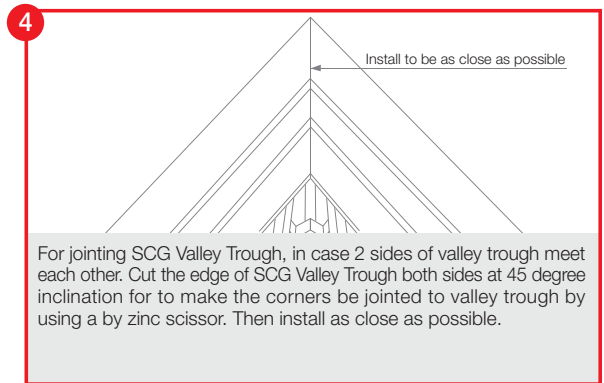
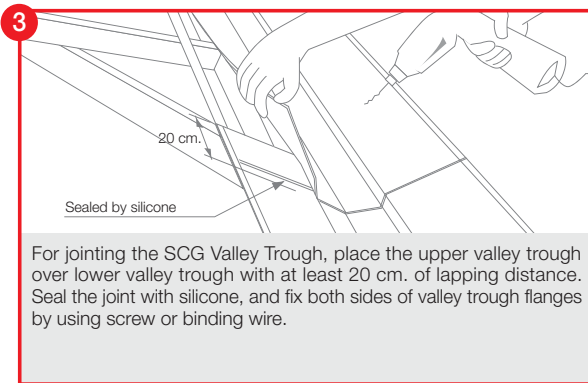
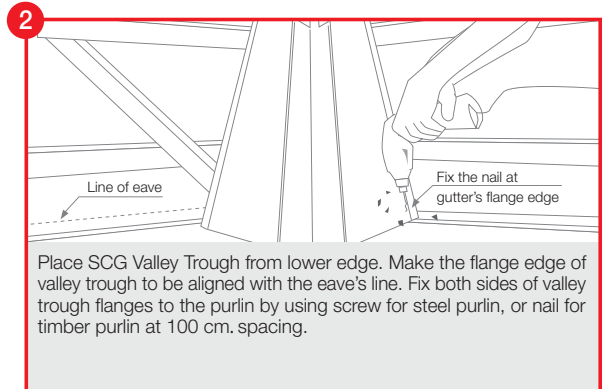
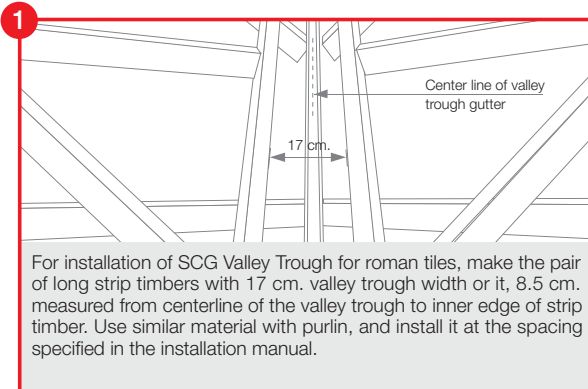
4



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.

## 7. Installation of SCG Valley Trough

**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)



# 8.

## Installation of ridge in the area of roof 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

3 cm.  
10 cm.

Install the ridge supporting set to rafter at every 100 cm. spacing, to be about 10 cm. 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**

15 cm.

Install / fix the round ridge by ridge fixing screws at 15 cm. from head cover.

**5**

15 cm.

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**

8 cm. 15 cm.

SCG Drilling Screw

Round Hip End Ridge

Barge

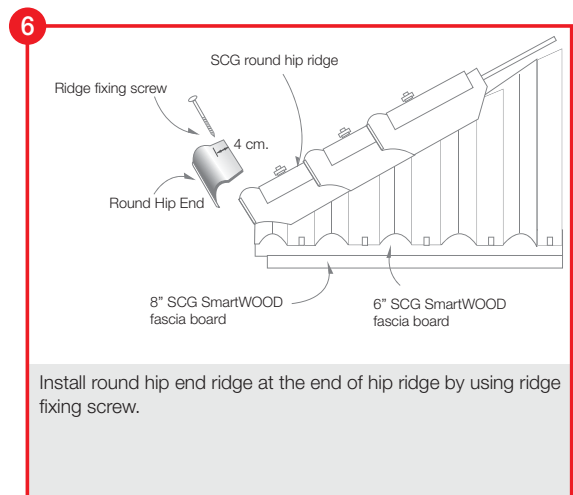
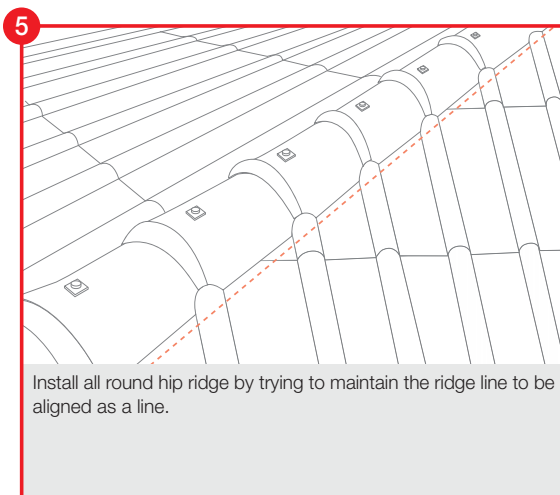
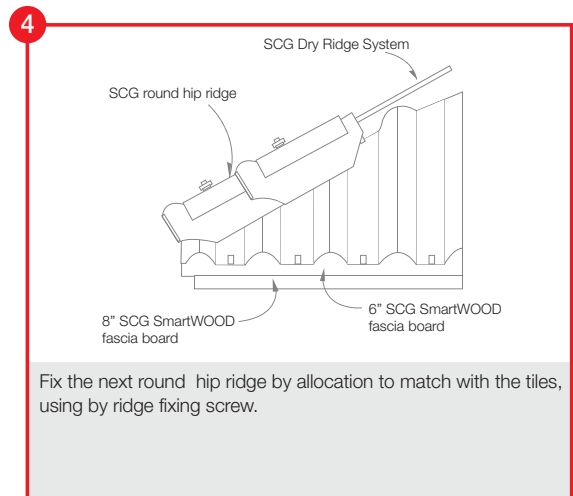
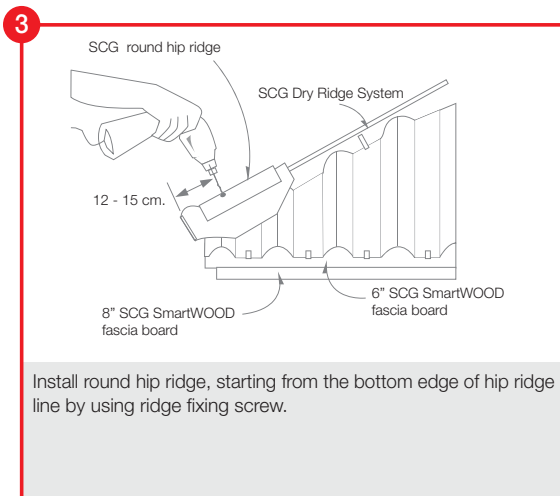
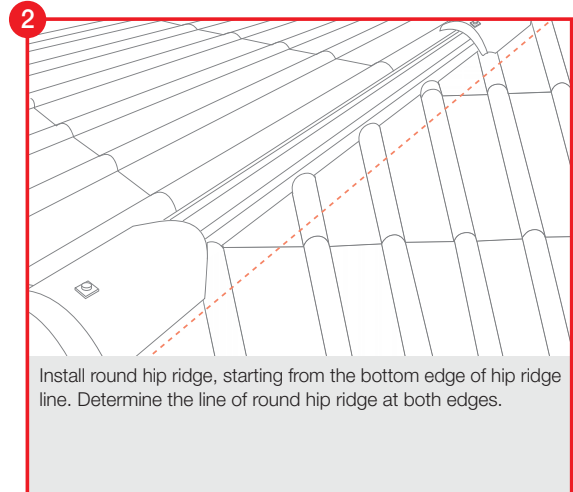
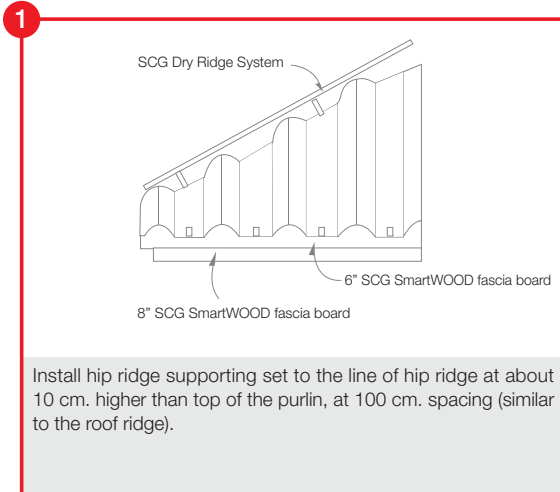
Barge End

Round ridge

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

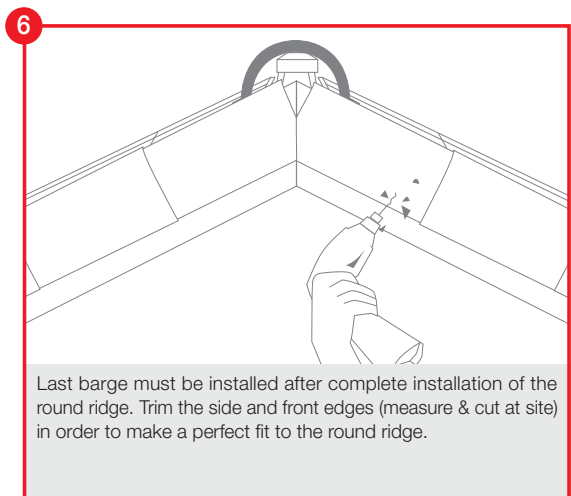
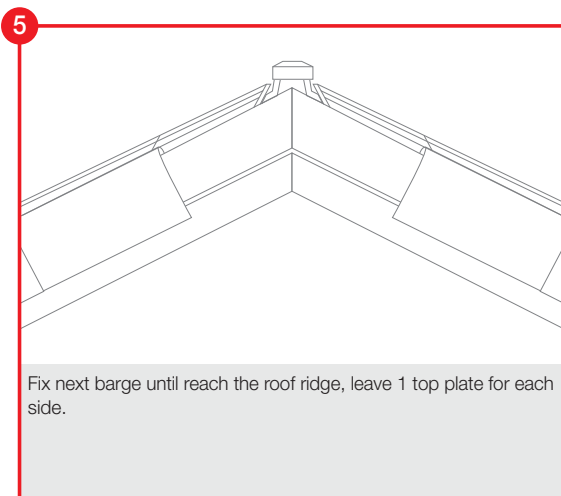
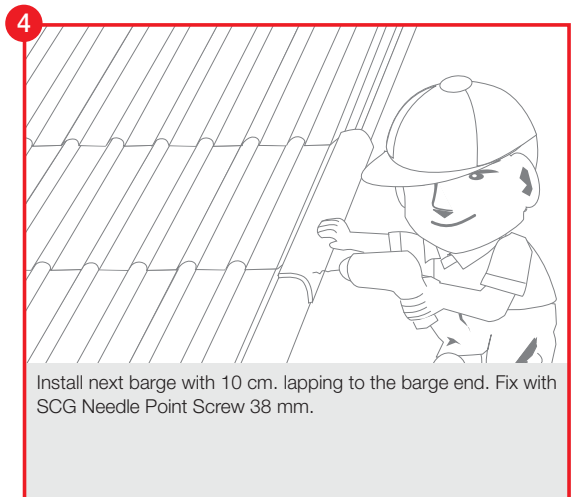
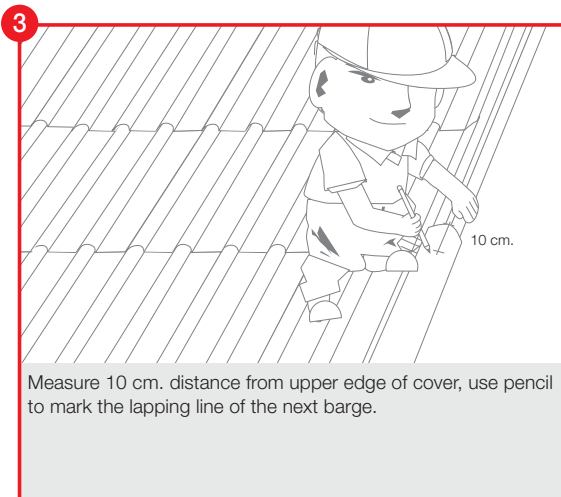
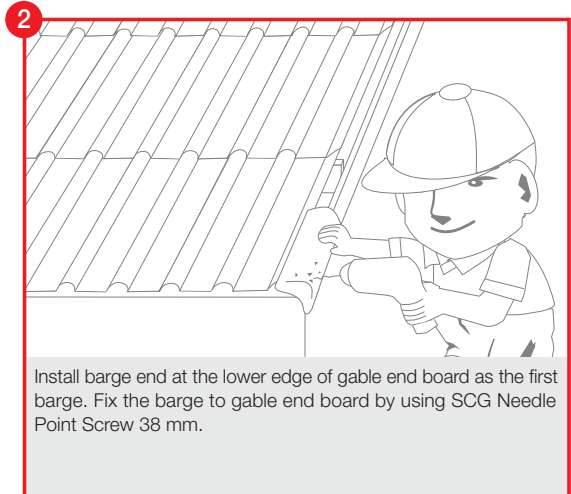
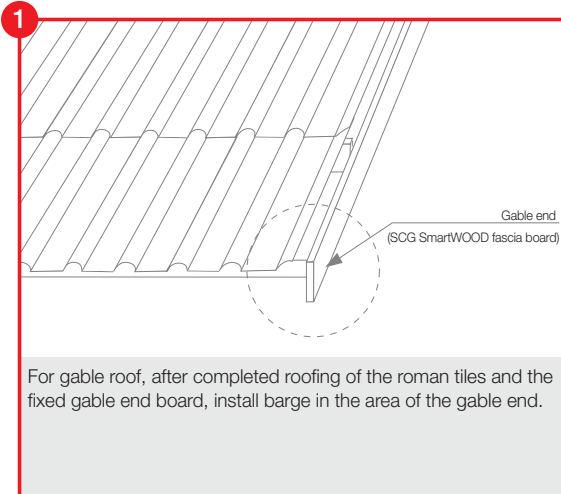
## Installation of the ridge at the hip by using SCG Dry Ridge System

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



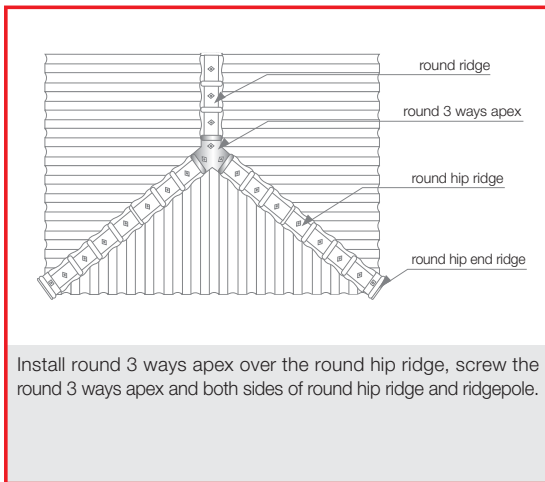


## Installation of Barge by using SCG Dry Ridge System

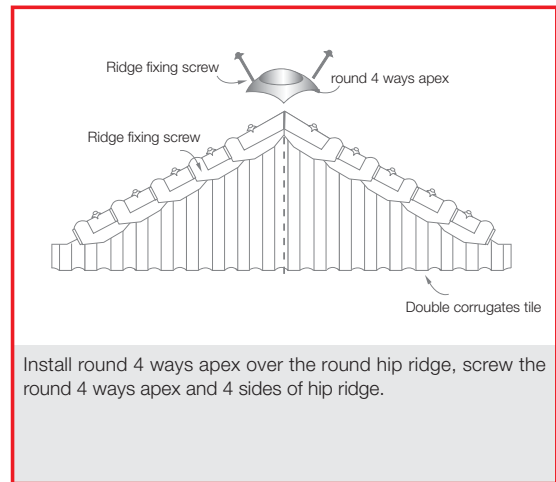


## Installation of round 3 ways apex, 4 ways apex and wall ridge by using SCG Dry Ridge System

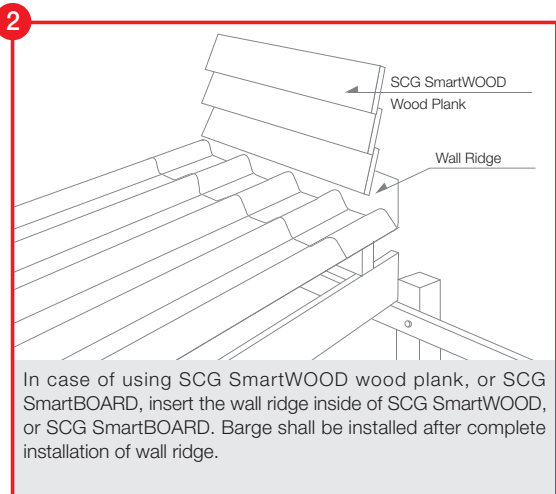
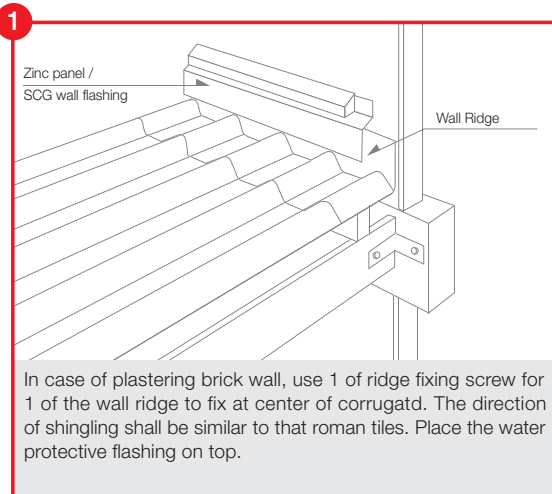
### Installation of round 3 ways apex



### Installation of round 4 ways apex

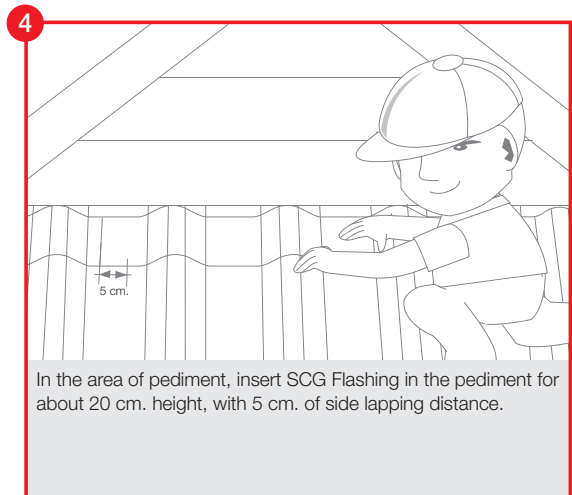
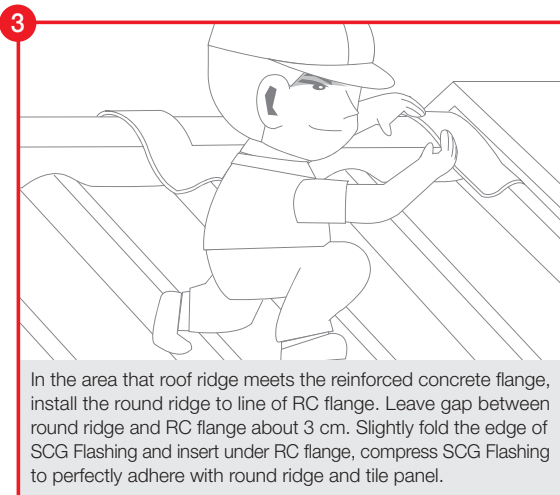
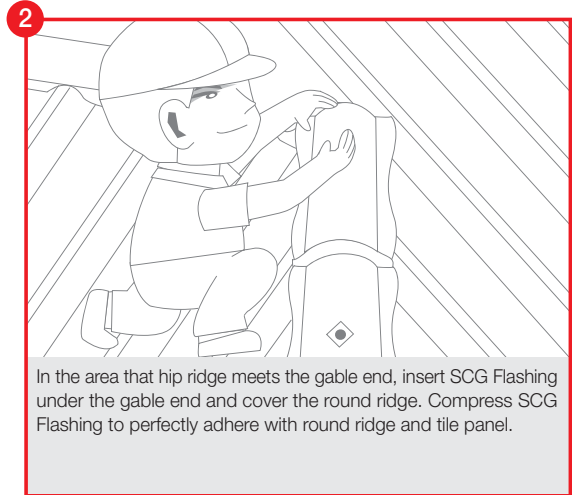
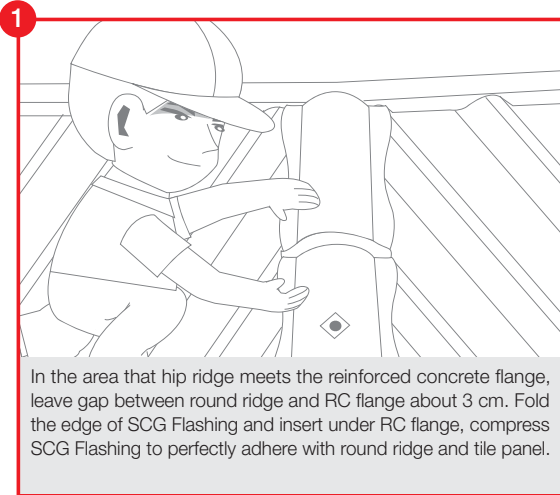


### Installation of Wall Ridge



## 9. Installation of SCG Flashing

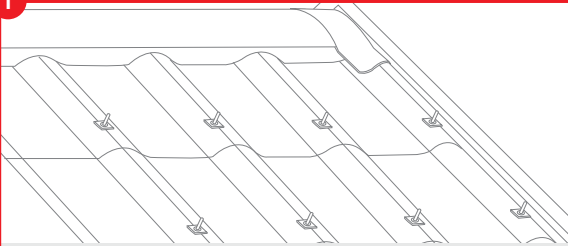
- Tip :**
- Use SCG Flashing with 35 cm. width, 50 cm. length, for SCG Roman Tiles only. The product can be used to cover the wide joint, because of its larger size.
  - Perfectly adhered to corrugate shape without peeling by putting adhesive glue at the flashing, including reinforced aluminum at middle core. (see details in pages 15-16)



# 10. Prevention and Solution for the wrong installation

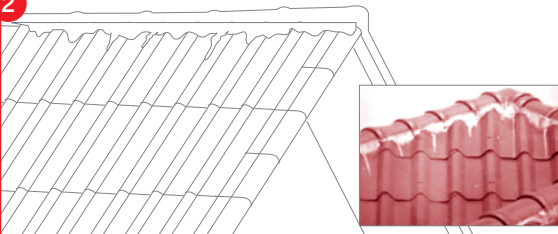
## Water Leakage Problem

1



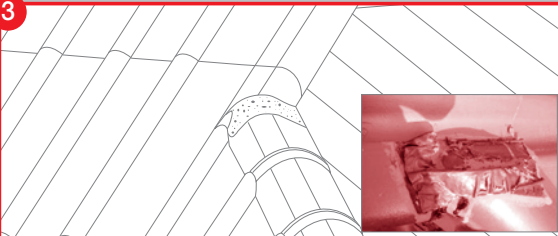
Poor aesthetic appearance of the roof, risk to leakage and rusting because of using low quality hook bolt or screw.

2



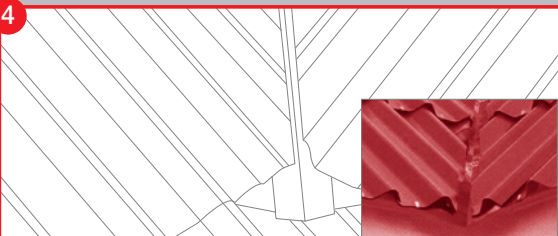
Blown ridge, dirt stains on roof panel, because installed the roof ridge cover by cementing under the ridge resulting in spilling of cement water. Painting over the cement water will also result in poor roof coloring.

3



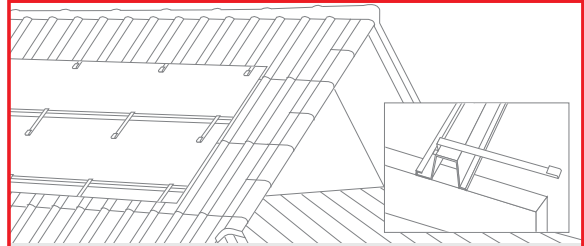
Leakage on the roof at the jointing area, because of using wrong joint materials, such as zinc plate or cement, which cannot perfectly seal the joint, and can be easily peeled off.

4

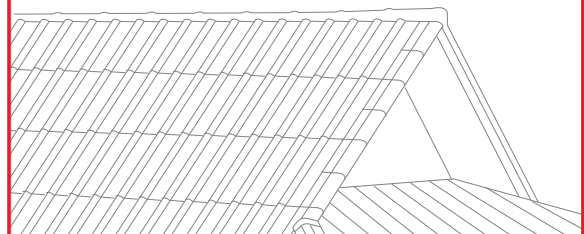


Using of normal gully which provides narrow flange will cause the over spilling, roof leakage and easily can corrosion because of using low quality zinc gully.

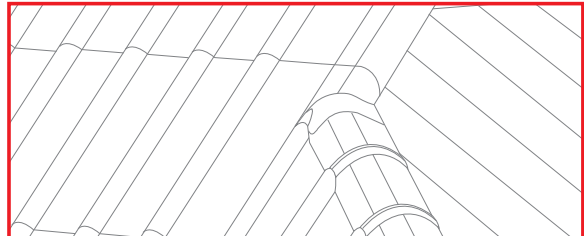
## Solution Method



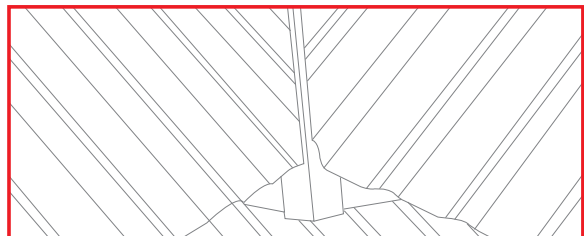
Use SCG RT Clip Lock with SCG Galvanized Steel Purlin. The appearance of the whole roof will be authentic beautiful (see details in page 15).



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 Curve cover set

Used for roof with 20 - 40 degree slope

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


## SCG Corner Cover Set

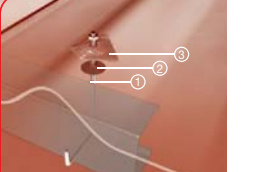
Used for roof with 15 - 40 degree slope

 <p><b>Adjustable Angle Ridge</b></p> <p>Cover roof ridge for roof with 15 - 40 degree slope</p>	 <p><b>Adjustable End Ridge</b></p> <p>Cover gable for gable form roof</p>
 <p><b>Ridge (15 &amp; 20 degree)</b></p> <p>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>Special flange for hooking with SCG RT Clip Lock</p>	 <p>SCG Galvanized Steel Purlin (0.7 mm. thickness, 4 m. length)</p> <p>SCG RT Clip Lock (20 cm. length)</p>
<p><b>SCG Galvanized Steel Purlin and Clip Lock</b></p> <p>For installation with roof tile without necessity of tile's penetration, easily installed, rust free, no roof leakage, high strength and safe</p> <p>Containment : 5 piece / wrap</p>	

 <p>① ② ③</p>
<p><b>SCG Roman T</b></p> <p>Used for install the roof tiles with tm roof leakage problem</p> <p>Length : 5, 6, 7, 8, 9 and 10 inches</p> <p>Containment : 300 set / box</p>





**11**

**SCG Valley Trough**

For valley trough gutter, wide and deep, allow rapid drain (stainless steel)  
 Length : 2 m. / palen  
 Flange width : 18.4 cm.  
 Valley depth : 5 cm.



**12**

**SCG Flashing**

Used for seal joints on roof, prevent roof leakage, adhere to the corrugate form  
 Contain : 1 piece / box  
 35 cm. width, 50 cm. length,  
 0.2 cm. thickness



**13**

**SCG Roman Tiles Eave Filler Set**

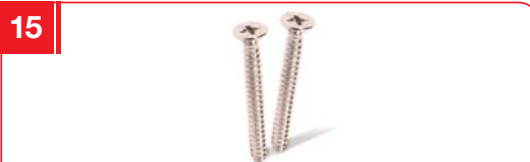
Used for cover the eave, prevent small animal  
 Contain: 10 pieces / box,  
 including screws cover for 4.5 m.  
 length of eave



**14**

**SCG Roman Tiles Roofing Paint**

Used for immediate repair of roof color, same color shade with SCG Roman Tiles  
 Contain : 2 kg. / can



**15**

**SCG Needle Point Screw 38 mm.**

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



**16**

**SCG Self Drilling Screw 38 mm.**

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



**1**

**Tiles Hook Belt**

Use batten or C-steel batten, no more



**10**

**SCG Dry Ridge System**

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



**17**

**SCG Self Drilling Screw 32 mm.**

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

# 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 6<sup>th</sup> 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 goggles, 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)

