



PHIM Reg. No. 07020229

Think Roof, Think Rofo.



www.rofo.com.my

The Art of Roof Beauty

Rofo-Kingtile

CIDB Register No: 0120101203- SB131898



Miri Project



Lawas Project



Limbang Project



Sabah Project

Is Rofo-Kingtile Classical Ceramic Roof Tile? Yes or No? Throughout our continual improvement, most of the people do not realize that Rofo-Kingtile Classical Roof Tile is made of Steel! Fully incorporated with the beauty of Roof tile, lightweight, well spanning and architecturally pleasing.

Our Outstanding Differences:

1. With various significant technical improvement of beauty in 3D effect of Classical Roof Tile but lighter and well spanning ability.
2. Faster installations come with long run.
3. Lighter weight save the structure member.
4. Improved Step forming mould to make sure no damage or crack on the folded edge.
5. Bigger Half round Rib makes higher 3D effects.

Advantage

By Continue effort of the Rofo R&D team, the Rofo- Kingtile profile is not only sound for its Beauty but also better in application and Installation. Normally the weak point for the Metal Step Roofing are grids and bending radius. We address that problem and we improved it by

1. The grid and Radius of mould improved and eradicate the shear effect when forming the Step.
2. Metal Thickness at step area maintain. Do not effect the strength of metal and color Coating System.



Material Specification

Generally, the raw material consist two parts of Steel substrate and color coating.

- Strict material control in selection of raw material and color coating- elongation; no damage during forming step.
- Using semi hard or soft material to ensure no damage during step formation.

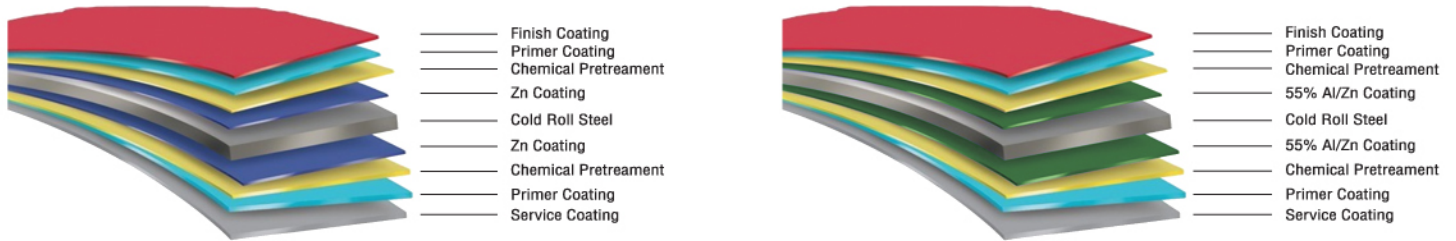
Steel Substrate

Base metal Steel: JIS G 3302: 1998 or ASTM A 792M

Tensile Strength: 300 to 400 Mpa

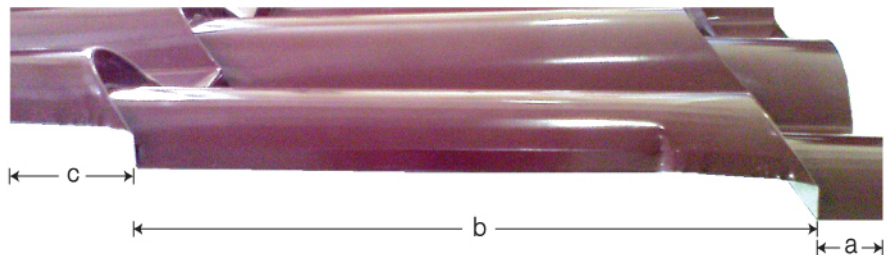
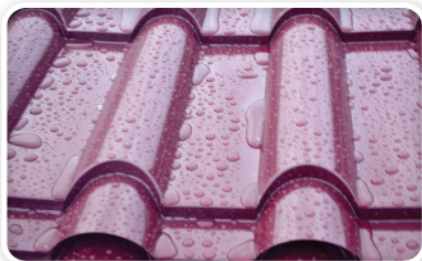
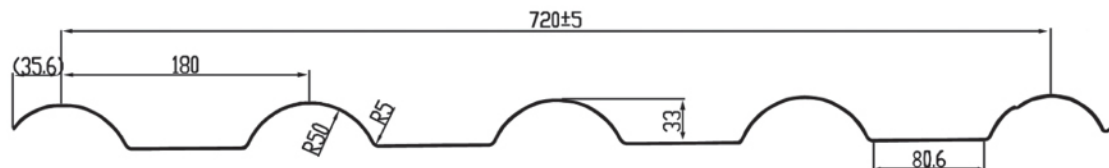
Base Metal Thickness: 0.30mm/ 0.35mm/0.38mm/0.40mm/0.42mm

Base Steel Coating: Zinc Coated (Z 18) or Aluminum Zinc 55% Coated (AZ 150, AZ 100) with minimum spangle finish.



Recommended Using Material from Total Coating Thickness from: 0.40mm to 0.48mm (TCT)

Diagram



Module Length from
Our Standard Module Length (SML) is
Effective Coverage
Height
Standard Overhang

= 200 to 350 mm.
= 350mm
= 720mm ± 5mm
= 33mm
= 55mm

a – Initial step overhang minimum ≥ 55mm
b – Our standard module length is 350mm
c – Final step overhang minimum ≥ 75mm

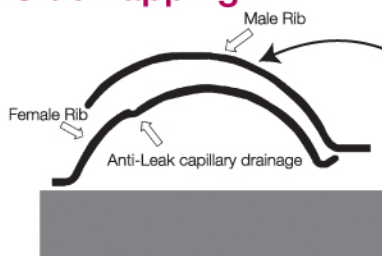
Installation

To lay the Rofo - Kingtile need to identify the wind direction

- Overlapping
- Screw fasten location and Sequence
- Overhang details
- Capping Cross Section
- Fascia Cross Section.
- Recommended Screw 65mm accordance to AS 3566 Class 3 or Equivalent with Cr⁶⁺ Free



Side Lapping



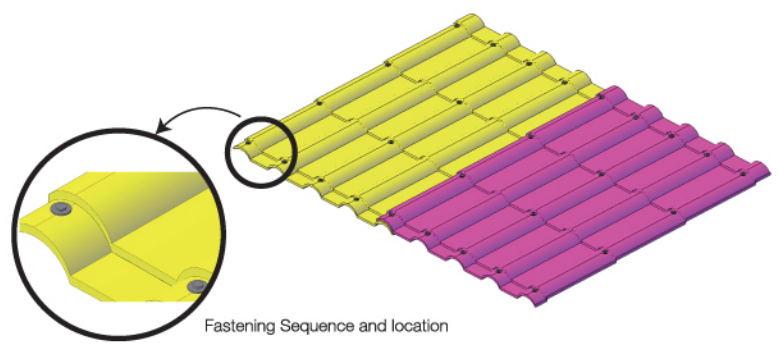
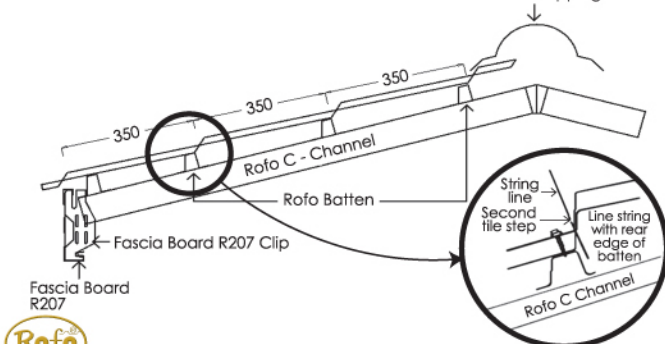
Rofo Round Capping 340



Anti-Leak capillary drainage



Imprint Brand Name for easy recognition



Fastening Sequence and location

Length

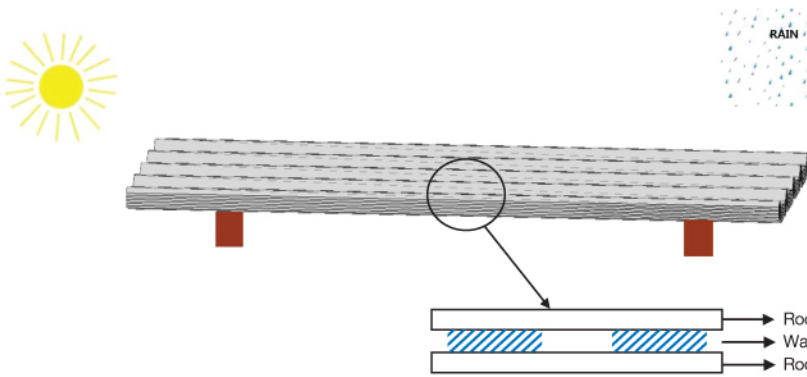
We recommended the maximum Length is 7.5m.

Before Installation

To ensure the Life-span of Rofo - Kingtile, the material must be kept in dry, covered and stacked above the ground.

This is to avoid any trapped water between the stack roofing sheets. Failure to maintain proper storage will cause damage to the material coating and color texture.

Important Note for Roofing Storage at Site Before Installation

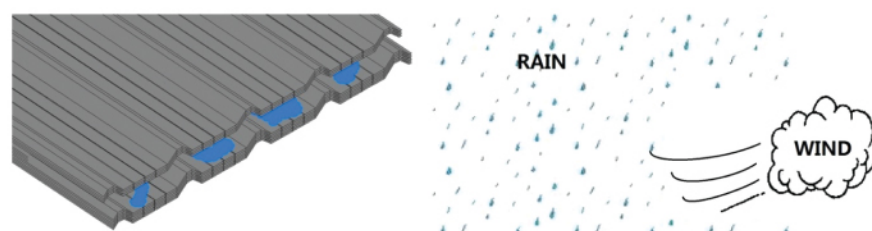


RAIN

WIND

- Roofing on-site without proper storage and stake in bundle.
- Roofing just put on the ground without cover by canvass or store in shed and no pitched storage as well as expose to the weathering.

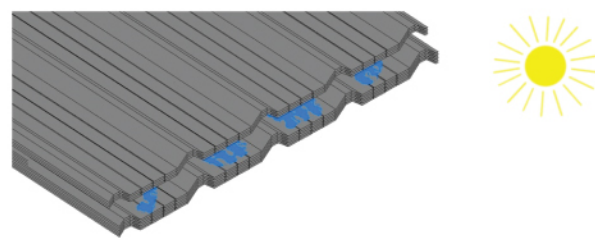
Roofing Sheet
Water Stagnation
Roofing Sheet



RAIN

WIND

- Water may stagnation in between the roofing stake when there is Strong Rain and Wind.
- Water that Stagnation at both edges of the roofing stake will slowly flow into the middle of roofing and stay at valley part.



Day Time

- The reservoir of the water will boiled after heat by hot sun and it turns into steam.
- With high temperature, it may weaken the roofing color bonding.

Night Time

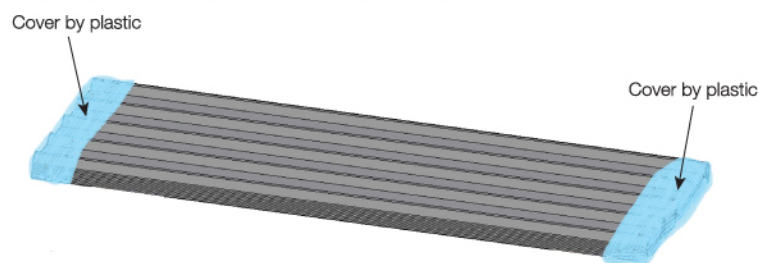
- When the temperature low at night time, the steam transform back to water.
- When these processes keep on repeating, it will destroy the paint bonding and it may cause paint peel off and follow by attack the galvanizing layer which cause corrosion.

FAQ : Some people may misunderstand why roofing which is a shelter that protect from the rain and sun cannot store under expose of weathering.

Ans : The water ventilate and temperature is the key problem.

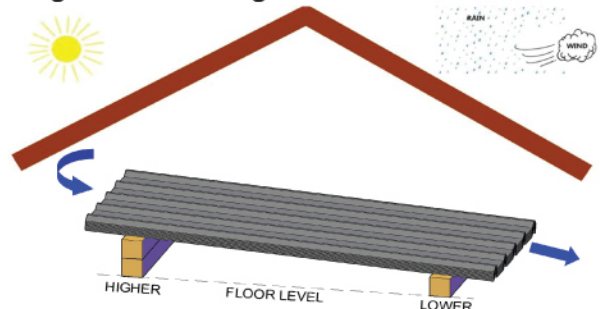
Our Recommendation Storage of Roofing Under Shed

For short term or temporary site storage.



- For short term or temporary site storage (without under shed), both roofing end should cover and pack well to avoid water stagnation when rain and wind which may cause discolorations and roofing colour coating peel off.
- If Roofing that affected by water should immediately wipe thoroughly and dried at both edges before re-stacking.

For long term site storage.



- To avoid roof discolorations and roofing colour coating peel off, roofing sheets must be covered by canvass or store under shed with pitched as shown above to avoid water stagnation in between roofing stake.
- If Roofing that affected by water should immediately wipe thoroughly and dried at both edges before re-stacking.
- For the Step Roofing like Kingtile and Rofotile is more encourage to fully cover well before install it.

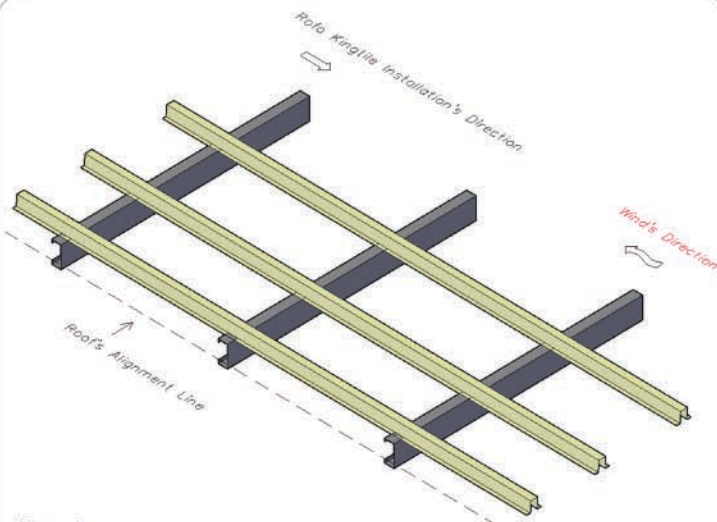
During Installation

- 1) It is highly recommended to use a snipe cutter (Scissor) whenever possible instead of cutting disc or nibbler that will produce metal debris.
- 2) Walk on the valley of Kingtile over the batten support area, totally avoid step over male and female joining point.
- 3) Any Metal Debris must be swept through as the debris will eventually rust and spread serious to the Paint Coating roof surfaces.

After Installation

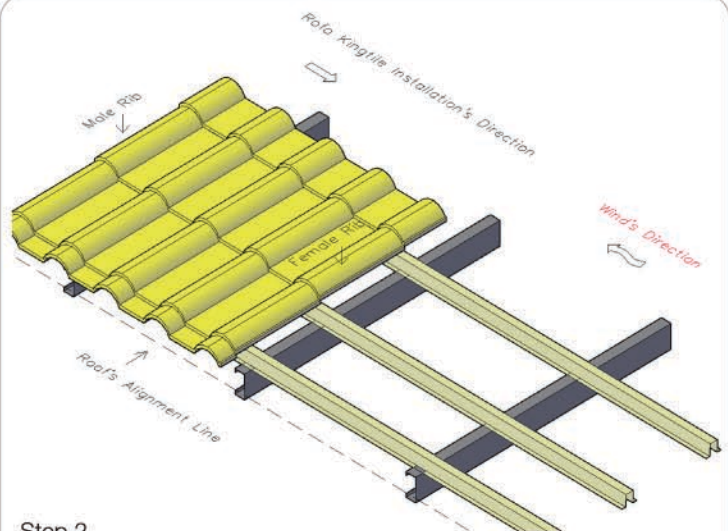
When using the cutting disc method, the roofing sheet must be ultimately swept and clean with a soft cloth thereafter. The hot particle will react with Roof surfaces and speed up the corrosion even in few months time.

Installation



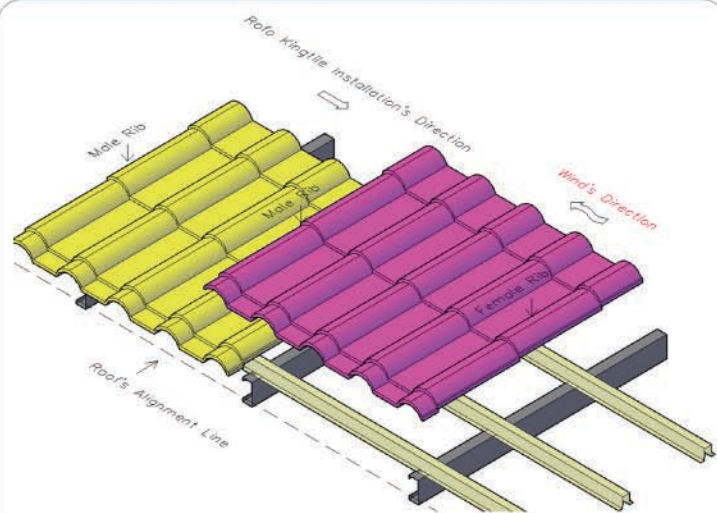
Step 1

Setup trusses required for the roof shape, and then setting up the batten for Rofo Kingtile follows the module's length. E.g. 350mm (Standard Module Length). Identify the wind's direction and placing the Rofo Kingtile opposite the wind's direction.



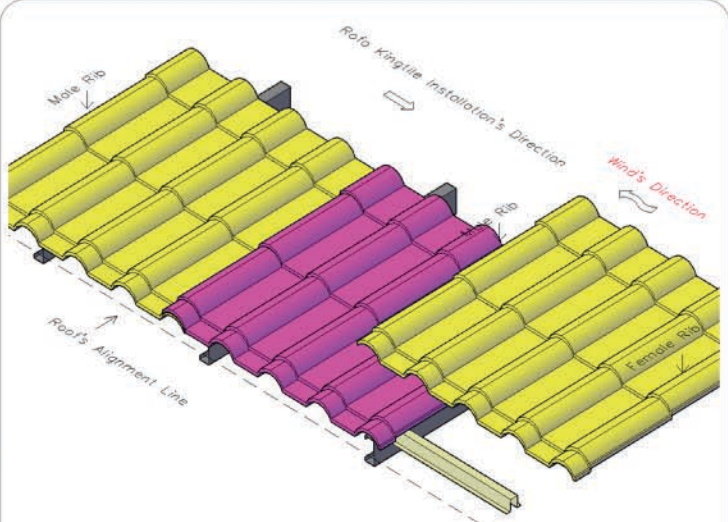
Step 2

Place the Rofo Kingtile by the roof's alignment line and secure it with 65mm hex-head self drilling screws. Identify the Male Rib and Female Rib to ensure misplacement when securing the roof sheet. Female Rib is where the Roof Sheet's anti-leak capillary located.



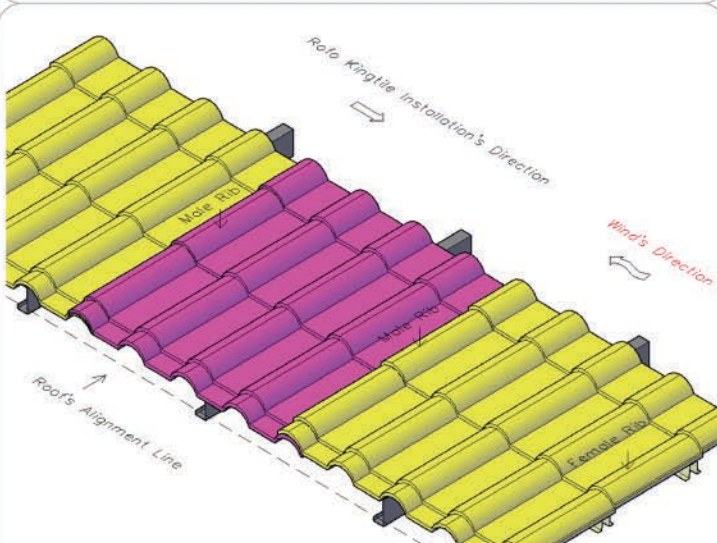
Step 3

Place the next Rofo Kingtile next to the previous roof sheet follows the roof's alignment line. Ensure the male rib is top over the female rib and then secure it with screws.



Step 4

Continue the next Rofo Kingtile follows Step 3.



Step 5

Continue Step 3 and Step 4 until the roof is fully covered. Should the last sheet of Rofo Kingtile is over the edge, cut to follow the roof's shape and finish with necessary flashing or capping accessories.



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