



Installation guide

PLYCEM

EUREKA SEVILLAN ROOF



IMPACT TESTS



LIGHTWEIGHT AND RESISTANT



PLAGUE RESISTANT



DURABLE



NON-COMBUSTIBLE



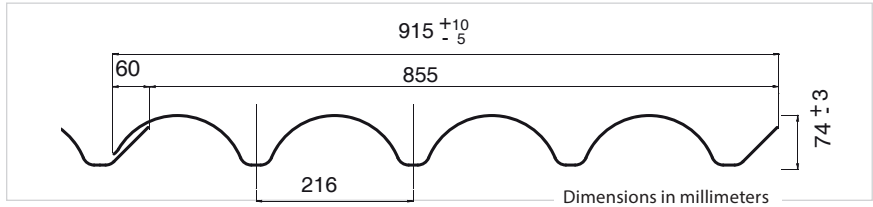
THERMAL AND ACOUSTIC COMFORT



EASY TO INSTALL



STAINLESS



Length m		Width m		Surface m ²		Overlap m		Weight kg
Total	Useful	Total	Useful	Total	Useful	Long.	Lateral	
1.04	0.90	0.915	0.855	0.95	0.76	0.14	0.06	9.8
1.34	1.20	0.915	0.855	1.23	1.03	0.14	0.06	12.6

The manufacturing processes of Plycem Eureka products are certified under ISO 9001 Quality Management System, ISO 14001 Environmental Management System, ISO 45001:2018 Occupational Health and Safety Management System; the company is also certified under BASC Control and Safety Management System.

It is an esthetic and decorative fiber cement tile molded by hand, which gives the roof the colonial look of clay roofs, providing a high aesthetic value to your projects at a lower cost.

Do not apply quicklime or vinyl paints on the interior face, use special acrylic paints for fiber cement roofing.

For more information, ask the Technical Department in each country about it.

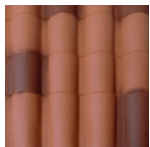
Components: Cement: 70%-90%.
 Calcium Carbonate: 10%-25%.
 Synthetic Fibers: 1%-4%.
 Cellulose: 2%-5% Cellulose: 2%-5% Cellulose: 2%-5%
 Thickness: Minimum: 5.5 mm
 Tolerances: Length: - 5 + 10mm
 Width: - 5 + 10 mm
 Surface unit weight: 10.3kg/m²
 Note: Weights may vary ±10% according to product humidity.

Aesthetic and decorative tile.
 Do not apply lime or vinyl paints on the interior face, use acrylic paints.

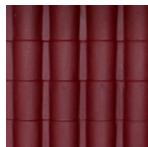
Color



*Approximate hues



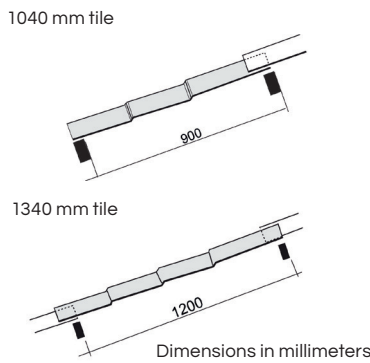
Ceramic with spots



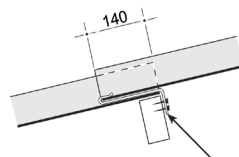
Chocolate with spots

For other colors, consult your regional distributor or Customer Service Department.

Distance between supports



Longitudinal overlap

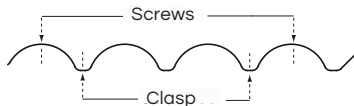


Hook 55, 150 or 250 mm according to the type of structure used.

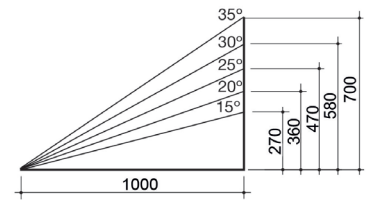
Each tile is fastened with two hooks located in the lowest part of the waves called valleys.

They are also fastened with two screws located at the crests of the waves.

Location of the fastening elements



Roof slope

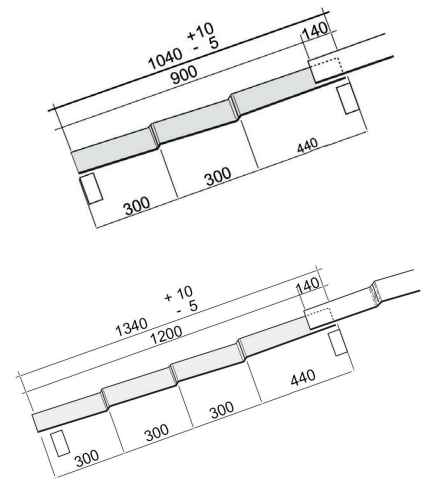


Dimensions in millimeters

Equivalences

15°	minimum* 27%
20°	36%
25°	47%
30°	58%
35°	70%

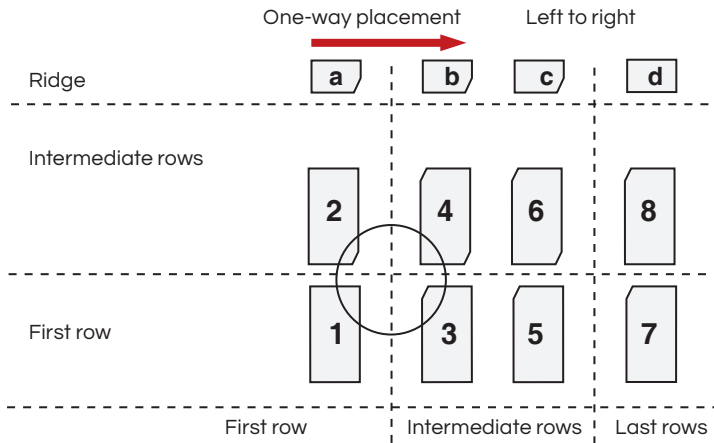
Longitudinal section



Dimensions in millimeters

LINEAR INSTALLATION SYSTEM WITH BLUNTING

Placement from left to right

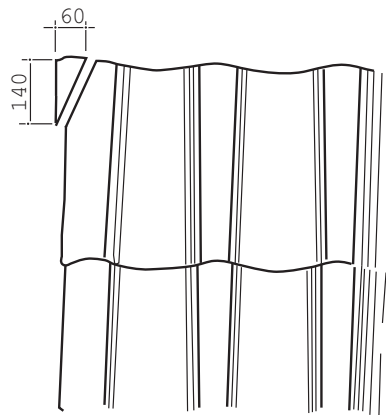


The Sevillana Tiles have only one direction of installation (from left to right). They must be laid from bottom to top, in the order indicated.

For the placement of the ridge in this type of roofing, it should be taken into account that the waviness of the tiles on the ridge match from one side to the other, to ensure that the ridge tiles overlap correctly.

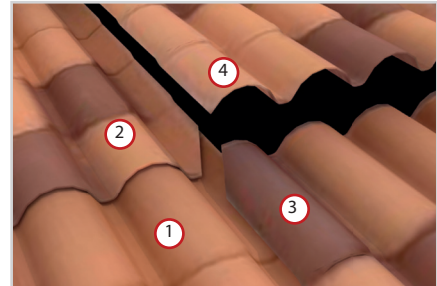


Blunting of roof tiles and complementary parts



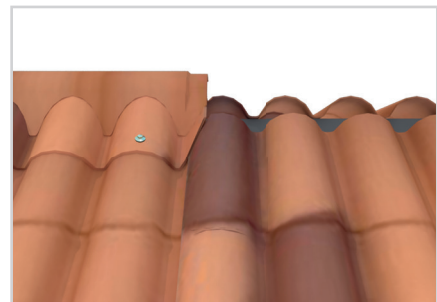
Dimensions in millimeters

Note: Do not perform the blunting on the roof.

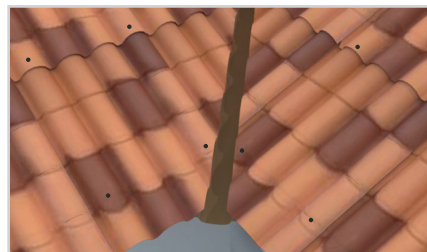
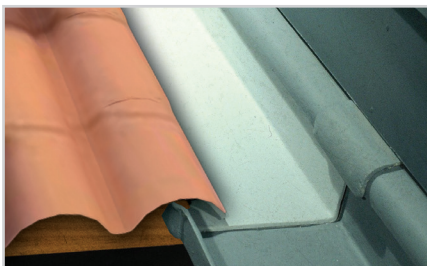
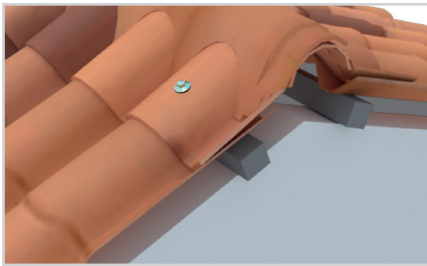
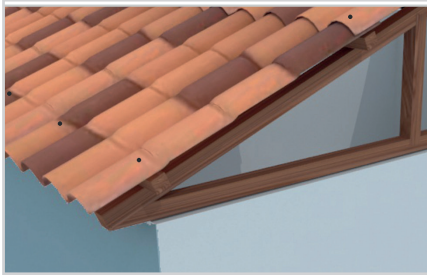
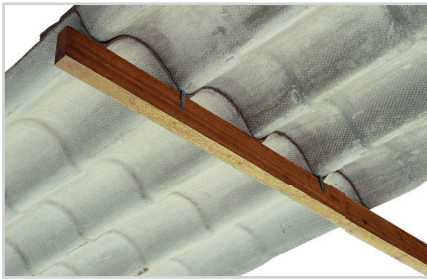


Blunting Procedure

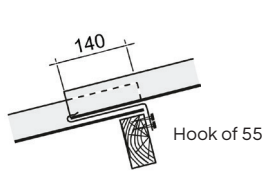
- To obtain a perfect finish, cut or blunt the corners of the two central tiles, 2 and 3, in order to avoid the overlapping of four thicknesses.
- The blunting of the tiles and complementary pieces has a length and width equal to the longitudinal and lateral overlaps accordingly.



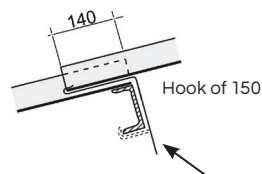
FASTENING SYSTEMS



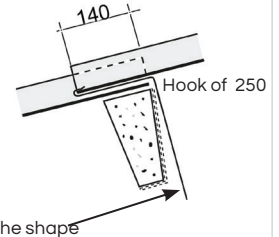
On wooden supports



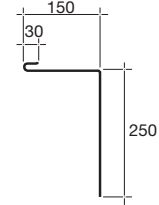
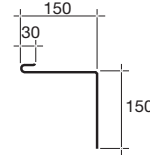
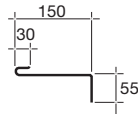
Metallic



In concrete



Galvanized hooks

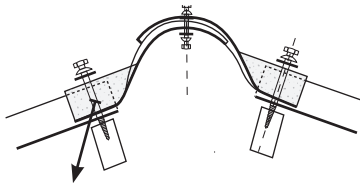


Make the shape

Note: Use 2 hooks and 2 screws per tile for fastening. In areas with strong winds use only screws.

Dimensions in millimeters

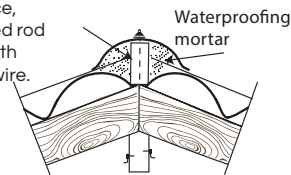
Articulated Ridge



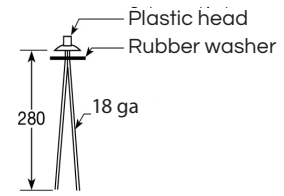
Wing fastener, threaded hook or adhesive Sikaflex 221,1A Plus or similar

Hip

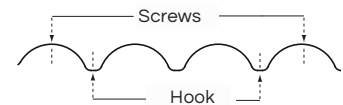
Fastening on support piece, with threaded rod section or with galvanized wire fastening



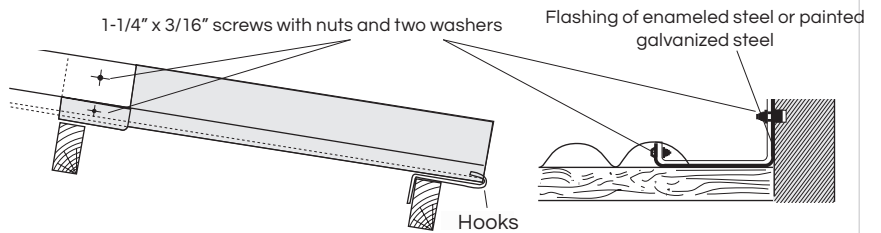
Galvanized wire fastening



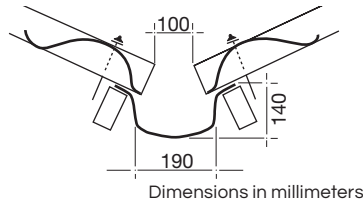
Location of fastening elements



Corner embedded on wall



Valley



Dimensions in millimeters

Note: Valley of galvanized enameled steel or painted galvanized steel.

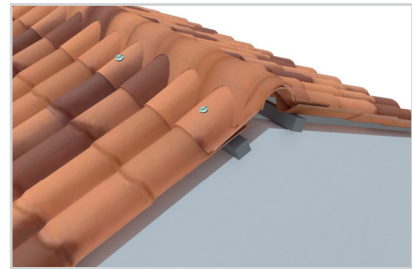
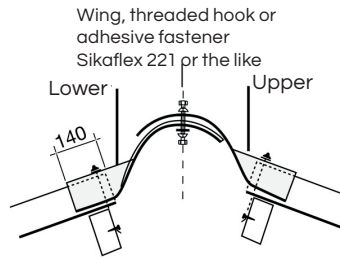
COMPLEMENTARY PIECES

	Width m		Overlap m		Weight kg
	Total	Useful	Long.	Lat	
Sup.	0.915	0.855	0.14	0.06	4.40
Inf.	0.915	0.855	0.14	0.06	4.00

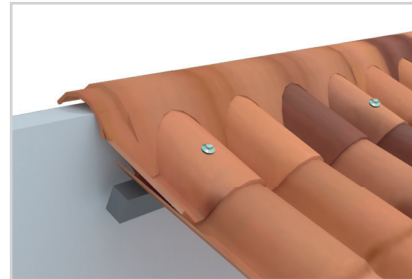
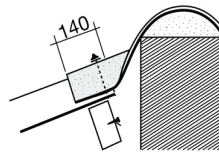
Note: The top ridge should always be installed in the end of the facade.

Note: This piece must be cut on site at the top (curvature of the ridge) at the highest point, according to the slope of the roof, as shown in the diagram.

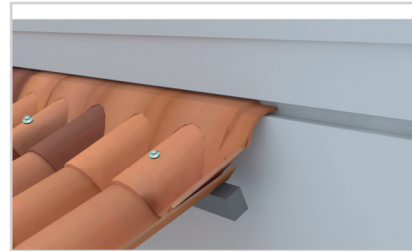
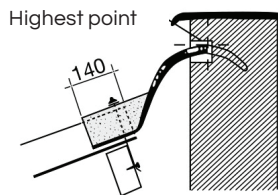
Articulated ridge



Top: As top terminal on wall



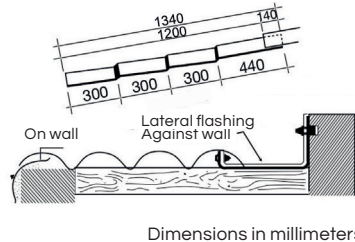
Bottom: As terminal top against wall



Length m		Width m	Weight kg
Total	Useful	Total	
1.34	1.20	0.216	3.0

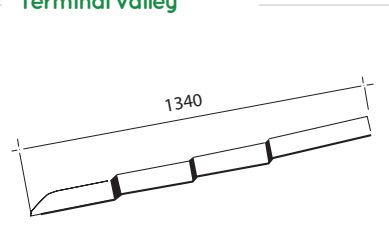
Note: Use a flat side flashing as counter wall side terminal.

Sevillana hip



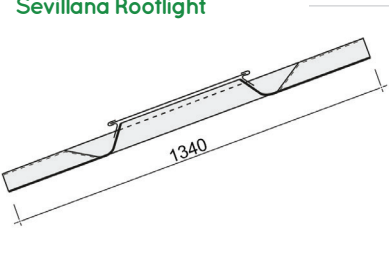
Length m		Width m	Weight kg
Total	Useful	Total	
1.34	1.20	0.216	2.8

Terminal Valley



Length m		Width m	Weight kg
Total	Useful	Total	
1.34	1.20	0.915	11.13

Sevillana Rooflight



*Check availability of the rooflight.

Storage of corrugated tiles

Store on a flat, firm and level surface.

Horizontal

Use pallets to store and transport fiber cement tiles.

For storage of each pallet you must have:

- Store under cover at one level.
- In the warehouse or storeroom, place a pallet or two wooden supports on a firm surface and level floor, observing the distances indicated in the diagram.
- Each pallet shall have a maximum of 40 tiles of the same length.
- Do not place other objects on the pallets.

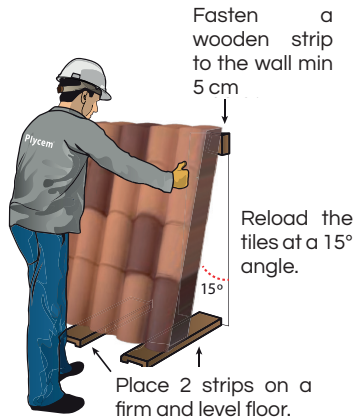
The storage of tiles of different lengths can be done, as long as the longest tiles are at the bottom of the pallet, the pallet does not allow more than the maximum number of units and it is not stocked on more than one level.



Vertical

It only allows the product to be stored at one level.

- Store below roof at a continuous level.
- Place the top of the first roof tile of the pack over its full width on a batten previously fastened to the wall.
- Place the tiles in a row on two wooden battens and at an inclination of 15° to the wall in order to prevent slippage.
- Check that the supporting wall of the tiles is sufficiently capable of supporting the overload of 200 tiles.



Do not store or place any other type of material on the horizontal or vertical pallets.

Avoid hitting the product.

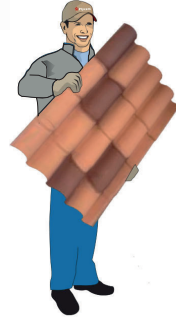
Other accessories storage

Ridges, hips and terminals must be stored on edge on pallets of not more than 40 units, they must be simple pallets and no other products may be stored on this material.

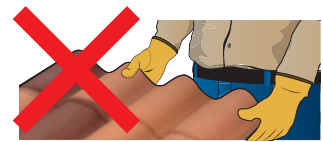
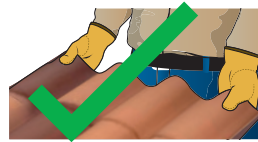


Handling and transportation of tiles

One person can carry a single tile up to 1340mm long.



Move the tiles one by one, taking them by the edges.

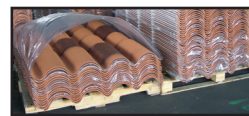
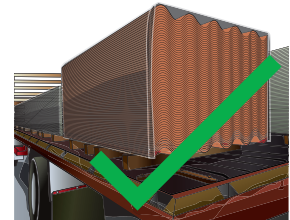


Always lift them below the first and fourth wave of the tile roof.

Never take the tile by the corners.

Be aware that colored tiles should be transported and stored under cover and with plastic protection from the sun and damage to the paint. The protection must be maintained until the time of installation.

Do not slide one over the other as this will cause scraping of the painted surface.



Always use specially designed pallets for storage and transport.

Do not forget, the maximum number of tiles per pallet for transport is: 40 units max.



If you have a forklift, move complete pallets directly to the vehicle. Insert the nails through the pallet windows without damaging the roof tiles.

INDICATIONS FOR INSTALLATION

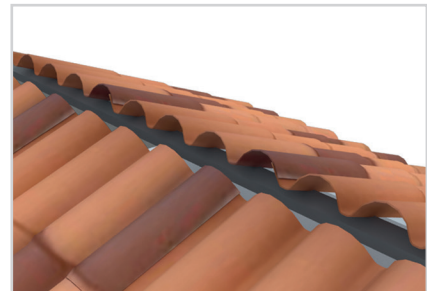
Indications and warnings

- Verify the dimensions of the roof with those indicated in the project; especially the lengths of the purlins, distance between them, parallel and level of their upper face.
- There should be no projections or edges on the support surface of the straps that would prevent the tiles from laying correctly.
- In order to determine the left or right side of a roof, the observer must be located in front of it, on the lower part.
- To transit during or after the installation of a roof, boards should be placed on at least three straps. The width of the boards must be fully supported on two waves of the tile. Always use safety equipment for working at heights (safety helmet, lifelines, harnesses, etc.).
- Do not allow inexperienced or uncertified people to work at heights to access the roof.
- Only roofing paint shall be used (no other type of paint or lime is applicable).



Gable roofs

- When installing the ridges, it must be ensured that the corrugations of the tiles coincide on both sides of the roof. If there is no alignment, the ridge tiles will not overlap properly.
- Make blunting on the ridge tiles or ridge tiles to ensure the fit with the tiles.



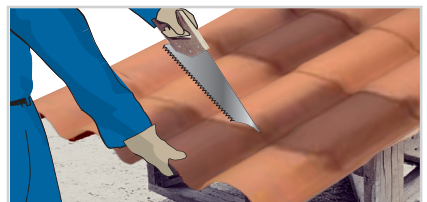
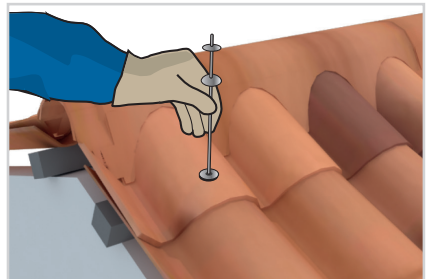
Fastening of the complementary components

- The accessories must be installed with screws or ties attached to the high waves, called ridges.
- Prior to the installation of the tie, drill the shingle using a berbiqui or electric drill with a $\phi 1/8$ " metal drill bit.
- Place sealant between the shingle and the tie washer, then tension the tie and attach it to the strap.
- Do not over tension the tie down.



Special cut on the roof tile

- In order to fit the tile to a special roof size, the tile can be sectioned every 300mm at the indicated place, as shown in the picture.

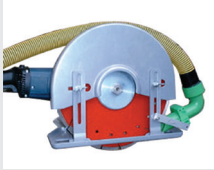


*Note: You must follow the regulations for working at heights and/or current standards.



**SAFETY AND HEALTH PROTECTION PRECAUTIONS
DURING THE CUTTING AND INSTALLATION OF FIBER CEMENT PRODUCTS**

Tools required for cutting and drilling of tiles and accessories



1. Circular saw with diamond blade with dust extraction system



2. Low speed cutter with dust extraction system: For longitudinal cross cuts and special cuts, such as holes for pipe penetrations, etc.



3. Drill or drill bit for metal.

Safety and security protection

Installation of fiber cement products must be performed by technical personnel who comply with the procedures indicated in this manual.

These products contain fibers; improper handling can be dangerous to health.



If you need to transform, cut or drill fiber cement products, do it in an open and well-ventilated area.



To prevent dust generation, pre-wet the cutting areas.



When you clean the areas where you have cut or transformed the products, preferably use suction methods; if it is necessary to sweep, you should wet the area to avoid dust generation. If sweeping is necessary, the area should be dampened to avoid dust generation.



The regulations in force for safe work at heights must be complied with.



To walk on fiber cement roofs, planks supported by at least three straps must be used. Do not walk on wet fiber cement roofs. The width of the planks must be supported by at least two waves of the tile.



Wet the cutting areas to avoid dust generation. While cutting or perforating the product, personal respiratory protective equipment approved by the Ministry of Health or its designee must be used. In the case of absence of personal respiratory protection elements approved by the Ministry of Health, it must be guaranteed that they offer a high retention efficiency, which must be equal or higher than 99.97% for particles of 0.3 micrometers in diameter and that they have the NIOSH/MSHA N, R or P 100 approval label or its equivalent. Avoid generating fine dust when cutting or processing fiber cement products. Inhalation of dust in high concentrations and for a prolonged period of time can cause respiratory illness.



For all cutting processes, the use of protective goggles is obligatory.



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