



La Escandella
ROOFING THE WORLD

ROOF ACCESSORIES FOR
VENTILATED ROOFS



Ventilated roofs

INTEGRATED SUSTAINABLE SOLUTIONS AND ENERGY EFFICIENCY

Roof design is essential to build an energy efficient and well insulated house. La Escandella, the leading Spanish clay roof tile manufacturer, always recommends the dry installation of roofs with systems that allow internal microventilation, combined with high quality tiles and roof accessories.

Air circulation between the support board and the roof tiles (micro ventilation). Is essential to ensure a correct performance of the roof, as it prevents the appearance of moisture due to condensation.

Pitched roof designs naturally discharge water, can be well insulated, and create efficient air flow from low to high level. As they would in nature the vertices or edges of a mountain. Less energy consumption, less CO₂ discharged into the atmosphere, less pathologies and consequently a more organic and healthy construction, as marked by the new trends and standards of modern building (code CTE/CE).

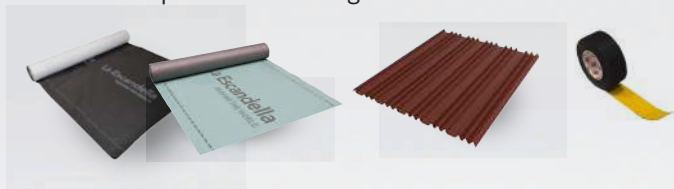


ROOF ACCESSORIES FOR VENTILATED ROOFS

Advanced solutions adapted to the type of tile we use (Traditional 35 years warranty: Curved, Mixed and Flat or H-Selection 100 years warranty: Visum3, Planum, Selectum, Vienna and Innova) with which we get a constant and fluid ventilation of our roof and reduce heat and humidity in our homes, effectively insulating and waterproofing our homes. In addition, the execution in this type of roofs is cleaner and more accurate, since all the parts that compose the cover must fit together. To do this, it's necessary to make a correct rethink, knowing perfectly the solutions of all the singular points.

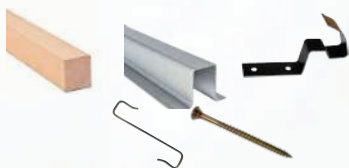
WATERPROOFING SYSTEMS - Page 02

Thermal insulation plays an important role in the hydrothermal behavior of the cover. Through these breathable membrane, water vapour is diffused to the outside while preventing the penetration of water inside, in the event of any failure in the protection coverage.



LAYING SYSTEMS - Page 03

In ventilated roofs, the tiles are installed on a network of wood or metallic battens. The fixation of the tiles and the accessoires, is carried out using hooks or clips.



EAVES SYSTEMS - Page 06

Eaves line must allow air to enter and, in turn, be protected against the entry of birds, insects, rodents or similar. To do this, it is necessary to place gratings and combs that, allow the passage of air, allowing microventilation.



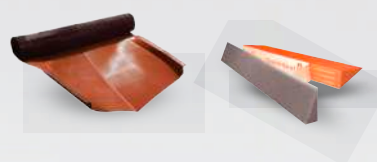
RIDGES SYSTEMS - Page 10

Dry fixing the ridge line allows microventilation at high level to work in tandem with eaves level ventilation to create a natural passage of air to remove condensation build up behind the tiles. Metal fixing clips create a firm hold on the ridge tiles for extreme weather



VALLEYS SYSTEMS - Page 08

Is the area of the roof that receives more water, being a critical point in terms of watertightness. Improper execution of the valleys can lead to the appearance of cracks, areas at risk of frost.



INSTALLATION
MANUAL

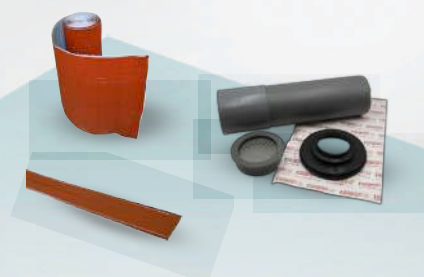


LAYING
VIDEOS



FLASHINGS AND COLLARS SYSTEMS - Page 09

In the case of chimneys, ventilation ducts or skylights, vertical encounters must be impervious and prevent water filtration. For this, Flex-Alu connection systems and metallic counterflashing are used which, thanks to their adaptability to the curvature of the tiles, ensure the tightness of the unique encounters.



ISOLATION

BREATHABLE MEMBRANE

Waterproof membrane

Waterproof membrane with a high transpiration capacity and 3 overlapped and thermosealed layers. The weight is of 115 g/m², 135 g/m², 150 g/m² and 180 g/m² and allowing a high permeability to steam, while it is waterproof and protects against wind.

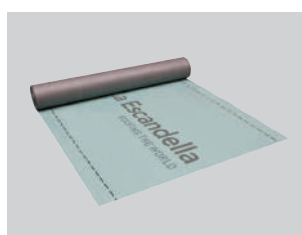


Roll 75 m²
1,5 m width x 50 m long / 4.9" x 54.68 yd

CAM65 115 g/m²
CAM21 135 g/m²
CAM52 150 g/m²
CAM53 180 g/m²

Condensation Barrier Membrane

Condensation barrier membrane with three overlapped and thermosealed layers. The weight is of 145 g/m².



CAM56

145 g/m²
Roll 75 m²
1,5 m width x 50 m long /
4.9" x 54.68 yd

ADHESIVE TAPES

Adhesive tape for Waterproof membrane

Polyethylene adhesive tape with reinforcing mesh covered with high resistance acrylic adhesive. Designed for bonding waterproof membranes in its overlapped area preventing the air and wind flow through the different layers.



Adhesive tape for Water- proof membrane 1 side

CAM44

Width: 5 cm / 1.97"
Roll 20 ml / 21.87 yd



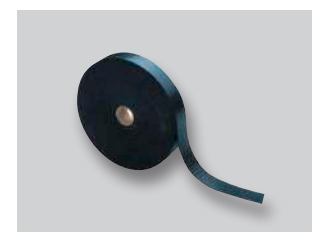
Adhesive tape for Water- proof membrane 2 sides

CAM42

Width: 5 cm / 1.97"
Roll 50 ml / 54.68 yd

Nagel Adhesive tape - under tile drilling

Adhesive tape used between batten supports and waterproof membrane to prevent leakage where battens are nailed.



CAM43

Width: 4 cm / 1.57"
Roll 30 ml / 32.81 yd

LAYING

BATTENS

Battens form the framework that allows microventilation and serves as a basis for dry fixation of the roof tiles. They can be made of wood or metal and must be perfectly linear and of constant dimensions in height and width to allow the uniform support of the tiles.



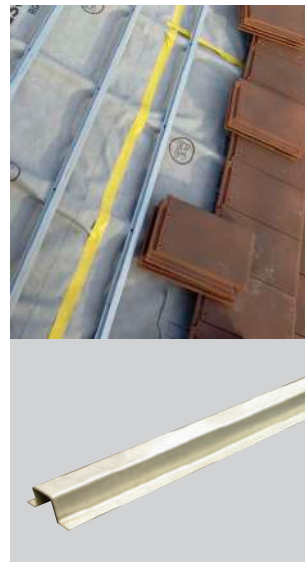
CAM92
**L.M. of Treated wood
batten for Solar System**

5 x 5 x 240 cm / 1.97" x 1.97" x
94.48"



CAM68
**L.M. of Treated wood
batten**

4 x 3 x 240 cm / 1.57" x 1.18" x
94.48"



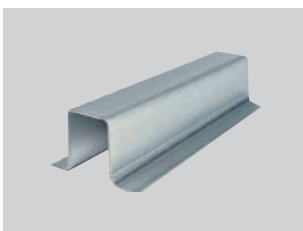
CAM042
Galvanized metal batten

210 cm long x 0,6 mm thickness
/ 82.67" x 0.02"



CAM043
Ventilation metal batten

3 x 2 x 250 cm /
1.18" x 0.79" x 98.42"
0,6 mm thickness / 0.02"



Galvanized steel batten

CAM050

5 x 3 x 250 cm / 1.97"
x 1.18" x 98.42"
0,6 mm thickness / 0.02"

CAM044

2 x 3 x 250 cm / 0.79"
x 1.18" x 98.42"
0,6 mm thickness / 0.02"



SCREWS

Fixing elements that have as function the union of the roof tiles and the accessoires to the support element, in order to avoid the movement of the same.



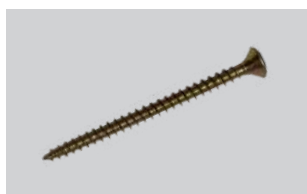
**Hexagonal head
drill screws
Metal-Metal**
CAM93

100 units / box
5,5 x 22 mm / 0.22" x 0.873"



**Flat head screws
Concrete**
CAM045

100 units / box
7,5 x 72 mm / 0.3" x 2.83"



**Flat head screws
Wood - Wood**
CAM95

100 units / box
5 x 70 mm / 1.96" x 2.8"



**Flat head screws
Tile - Wood**
CAM97

100 units / box
3,5 x 50 mm / 0.14" x 1.97"



**Self-supporting flat head
drill screws Tile - Metal**
CAM94

100 units / box
4,2 x 45 mm / 0.17" x 1.77"

HOOKS

Preformed hooks in pre-varnished aluminum. Its function is to anchor the ridge pieces to the batten. They are fixed by screws and the ridge pieces are mechanically fitted thanks to the shape of the hook; this allows the installation without mortar.



Ridge Tile Hook Q01*

CAM07R Red
CAM07N Black
CAM07M Brown

50 units / box



**Round Ridge Tile Hook
Q02***

CAM27RNEW Red
CAM27NNEW Black
CAM27MNEW Brown

50 units / box



**Pyramid Ridge Tile Hook
Q90***

CAM10R Red
CAM10N Black

50 units / box



**Angular Ridge Tile Hook
Q120* - Q145***

CAM123R Red
CAM123N Black

Curved Roof Tile 50 LOMERA T5
50 units / box

HOOKS / CLIPS

Dry fixation system that ensures fixation and prevents lifting tiles wind. Each clip is specifically designed to be used with a few clay tile models:

Mechanic roof tiles: **TG:** Mixed "S" Large | **TP:** Mixed "S" Small | **TW:** Visum3 | **TN:** Innova | **TV:** Vienna | **TI:** Planum | **TS:** Selectum
Curved roof tiles: **T5:** Curved 50 | **T4:** Curved 40



Metal clip clipped with bumper

CAM64 TN / TV / TI
CAM66 TW

Batten 25x38mm / 25x50mm //
 0.98"x1.5" / 0.98"x1.97"
 Stainless steel
 500 units / box

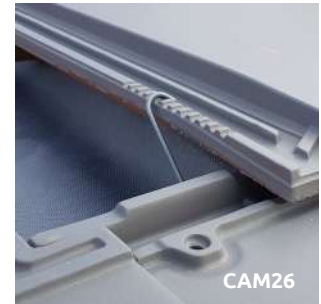
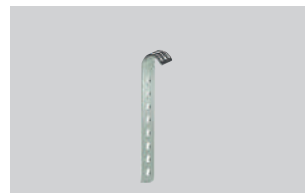
Installation by clamping or
 nailing in the batten



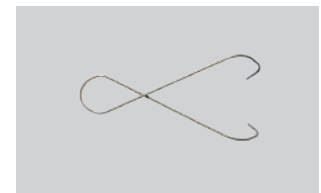
CAM59



CAM62



CAM26



CAM61 / CAM15 / CAM25

Metal hook/clip for wooden batten - TN, TV, TI

CAM59

Batten 38x27mm / 30x40mm //
 1.5"x1.06" / 1.18"x1.57"
 Stainless steel
 250 units / box

Installation by clamping or
 nailing in the batten

Eave hook/clip for roof tiles with lace

CAM62

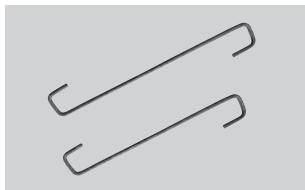
Long: 8 cm / 3.15"
 Stainless steel
 100 units / box

Universal clip - TG, TP, TS, TI, TN, TV

CAM26

Stainless steel
 250 units / box

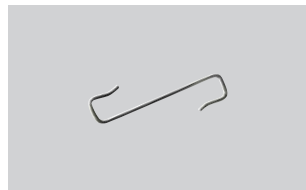
Installation by clamping or
 nailing in the batten



Metal clip T5

CAM61 17 cm / 6.69"
CAM15 15 cm / 5.51"

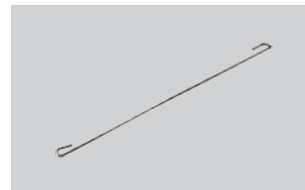
Stainless steel
 400 units / box



Metal clip T4

CAM25

Long: 7,2 cm / 2.83"
 Stainless steel
 1.000 units / box



Eave metal clip for curved roof tile

CAM74

Long: 28,5 cm / 11.22"
 Stainless steel
 250 units / box



CAM74

Snow stopper hook

Metal hook system preventing
 snow gathering and falling off in
 block.



Gancho C-315 TN / TV / TI

CAM29R Red
CAM29N Black

Long: 31,5 cm / 12.40"
 100 units / box

Gancho C-380 TN / TV / TI

CAM30R Red
CAM30N Black

Long: 38 cm / 14.96"
 100 units / box

EAVE



Gutter-Run In-Sheet Alu

Versatile aluminium foil to be used on the eaves of the roof, to ensure a correct waterproofing in the eaves region and drainage towards the gutter.

High UV resistance.

Always apply on clean and dry surfaces.

CAM13R Red/Black

Width: 23 cm / 9.05"

Rollo 5 m

4 rolls / box

EAVES VENTILATION COMB

The bird stopper comb protects the under tile area from birds and rodents. It is installed with nails or screws directly on the first batten, the tile being overlapped. It allows the air flow in the eaves region.



Mixed "S" Large bird stopper Q72*

800 g

110cm high x 220cm long / 43.3" x 86.6"

800 units / pallet



Selectum bird stopper Klinker

Q136*K

550 g

67cm high x 204cm long / 26.4" x 80.3"

700 units / pallet



Eaves Ventilation Comb for Flat Roof Tile

CAM014R Red
CAM014N Black

6 cm high x 1m long / 2.36" x 39.37"

200 units / box



Eaves Ventilation Comb for Mixed Roof Tile

CAM016R Red
CAM016N Black
CAM016M Brown

11 cm high x 1m long / 4.33" x 39.37"

200 units / box

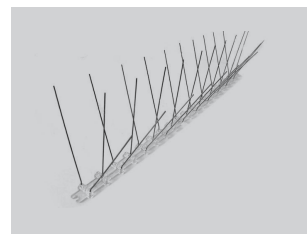


Eaves ventilation comb with batten

CAM058R Red
CAM058N Black

6 cm high x 1m long / 2.36" x 39.37"

50 units / box



Púas anti-pájaro

CAM38

Width: 50 cm
Stainless steel

EAVE GRATING

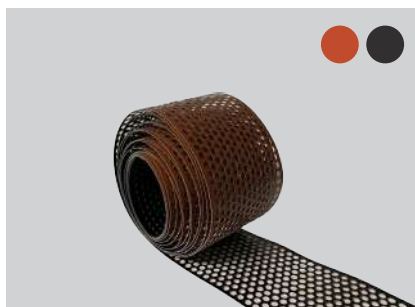
It protects the open ventilation area in the eaves against the entry of birds and rodents. The holes allow the air flow to ensure a proper ventilation.



Eave grating

CAM33R Red
CAM33N Black

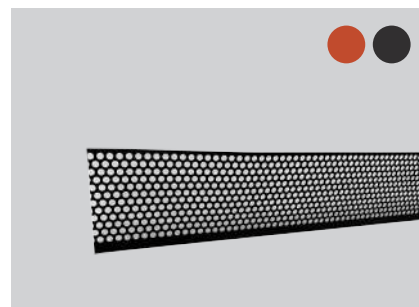
Width: 10 cm / 3.94"
Roll 5 m / 60 m
24 rolls / box



Metalic Eave

CAM118RN Red / Black

Width: 10 cm / 3.94"
Roll 5 m
24 rolls / box



Metalic eave membrane

CAM121R Red
CAM121N Black

10 cm high x 2,5 m long / 3.94" x 6.5"
20 units / box



VALLEYS



Alu-Valley Tape

Aluminium foil used on the valleys for collecting water from the pitch, ensuring a correct waterproofing.

High UV and aging resistance.

Always apply on clean and dry surfaces.

CAM018R	Red
CAM018N	Black
CAM018M	Brown

Roll 5m - 4 rolls/box

Sealing Wedge

Wedge-shaped polyurethane foam strips with acrylic polymer primer. The product is air permeable, which is advantageous for the roof ventilation process. The strips have low water absorption and allow to evacuate the steam accumulated underneath.



CAM37R

6cm width x 1m long / 2.36" x 39.37"

Red

200 units / box

Repairer paint pot

Special paint for tiles, used in the assembly of dark colored roofs, to increase the beauty of the red clay texture that are visible when cutting pieces during the installation of the valleys or other meeting points.



CAM0500	Galaxy
CAM0501	Slate
CAM0502	Brown
CAM0503	Grey

Pot 750ml



CONNECTION

JOINTS



Flex - Alu

Pleated band to ensure maximum adaptability and flexibility when applying. Alu-Flex is ideal for the waterproofing and sealing of joints on the roof: garrets, chimneys, walls, skylights, windows, ...

High UV and aging resistance.

Always apply on clean and dry surfaces.

Width: 40cm / 15.75"

CAMF8R Red
CAMF8N Black
CAMF8M Brown

Roll 5m
4 rolls / box

Width: 30cm / 11.81"

CAM08R Red
CAM08N Black
CAM08M Brown

Roll 5m
1 roll / box

Aluminium counter lashing

Prelacquered sheet in 3 different Colors to be used for side finishing of the Alu-Flex bands for vertical joints and chimneys.



CAM36R Red
CAM36N Black
CAM36M Brown

2m long / 78.74"
20 units / box



CONNECTION KIT FOR CHIMNEY SUPPORT



Connection kit Ø 160 mm / 6.3"

TI / TG / TP (for waterproof membrane)
CAM130



Connection kit Ø 160 mm / 6.3"

TI / TG / TP Butyl (for other surfaces)
CAM131



Pipe reduction Ø
160 to 125 mm /
6.3" to 4.9"

CAM132



Flexible pipe Ø
125 mm / 4.9"

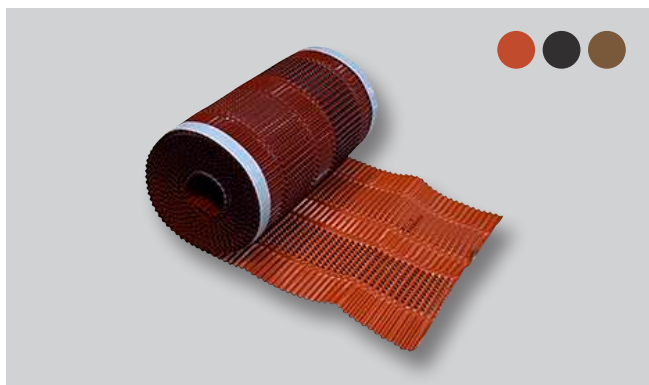
CAM133

RIDGES AND ROOF VALLEYS

ALU-ROLL

Alu-Roll for ridge and roof valleys allows ventilation of the roof. Place in the center of the over-lift batten and pin it or staple it to it. Once attached to the batten, the flexible part of the Alu-Roll is pressed onto the tile, the protective film is removed from the adhesive strip and glued to the tile.

It is necessary to place the ridge pieces so as to ensure tightness against rain and protection from prevailing winds.



Alu-Roll With Micro Cut

Width: 30cm / 11.8"

CAM01R Red
CAM01N Black
CAM01M Brown

Roll 5m
5 rolls/box

Width: 40cm / 15.75"

CAMF1R Red
CAMF1N Black
CAMF1M Brown

Roll 5m
4 rolls/box



Alu-Roll Membrane

Width: 31cm / 12.2"

CAM09R Red
CAM09N Black
CAM09M Brown

Roll 5m
7 rolls/box

Width: 39cm / 15.35"

CAMF9R Red
CAMF9N Black
CAMF9M Brown

Roll 5m
7 rolls/box

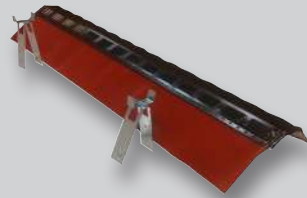
CAMF950R Red
CAMF950N Negro

Roll 5m
7 rolls/box

UNDER RIDGE KITS AND BATTEN BRACKETS

Under ridge kit

The kit includes 2 supports and a under ridge composed of two adaptable aluminum skirts and a perforated stainless steel sheet, which ensures perfect ventilation.



Ridge clouser + 2 ridge battens bracketsl (CAM51)

CAM010

1m long / 39.27"
20 units/ box

Ridge batten supports

Aluminium ridge supports for battens to be adapted to any rigid surface. Install with screws and nails, leaving 80 cm between fixation elements.



Adjustable Ridge Batten Bracket

CAM010

Width: 5cm / 1.97"
Galvanized steel
50 units/ box

Ridge Batten Bracket with knock in screw

Screwable batten support is directly installed on the wooden beam in the ridge to the height required, leaving 80 cm between each one.



CAM05

Width: 5cm / 1.97"
Galvanized steel
50 units/ box



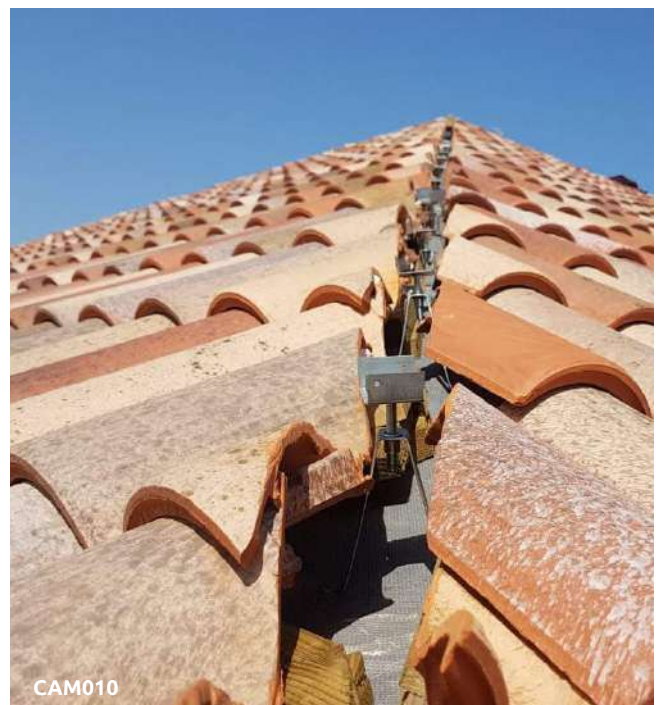
Ridge Batten Bracket MOD.Z

CAM051

Width: 5cm / 1.97"
Galvanized steel
100 units



CAM010



CAM010

UNDERROOFING SYSTEM

The supports or sheets of fibrocement act as support element of the tiles, performing the function of second cover that guarantees the tightness of the roof in those cases that the slope or conditions required is not met.

CURVED (MISSION) AND MIXED (S-TILE) PROFILES



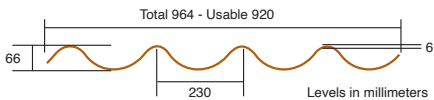
Roof tile color
250 x 96.4 cm /
98.42" x 37.95"
M0220

32 kg/unit
40 units/pallet

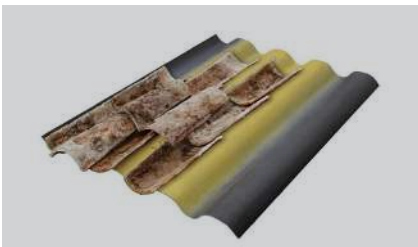
Roof tile color
152 x 96.4 cm /
59.84" x 37.95"
M0201

20 kg/unit
40 units/pallet

Use with ADHELLA FOAM. no battens.
Norm UNE-EN-494:C 1X



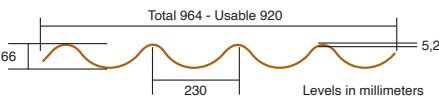
Application: Clay Curved (Mission) tiles with a width tapering from 18 cm to 22 cm (7.09" to 8.66") and Large Mixed (Large S) roof tiles.



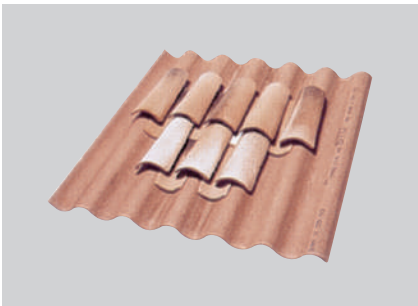
IMPERLINE
124 x 96.4 cm /
48.82" x 37.95"
AMA13

10 kg/unit
80 units/pallet

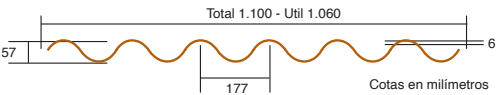
Place 3 supports over 55 cm or place a continued support.
According to UNE 88111-2011.



GRANONDA PROFILE



Use with ADHELLA FOAM. no battens.
Norm UNE-EN-494:C 1X



Roof tile color
250 x 110 cm /
118.11" x 43.30"
M0204

36 kg/unit
30 units/pallet

Roof tile color
200 x 110 cm /
98.42" x 43.30"
M0205

29 kg/unit
30 units/pallet

Roof tile color
152 x 110 cm /
78.74" x 43.30"
M0206

22 kg/unit
30 units/pallet

Roof tile color
125 x 110 cm /
59.84" x 43.30"
M0207

18 kg/unit
30 units/pallet

Roof tile color
300 x 110 cm /
49.21" x 43.30"
M0204

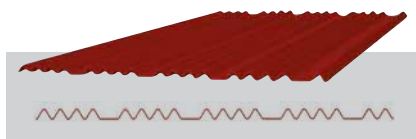
43 kg/unit
30 units/pallet

Application: Curved (Mission) tiles with a width tapering 2 cm to 16 cm (7.09" to 8.66") and Large Mixed (Large S) roof tiles.



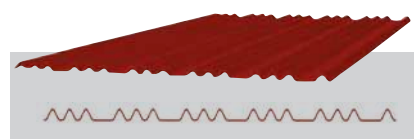
Placas Onduline

Complete waterproofing system of roofs and inclined roofs under tiles designed to offer a total guarantee of tightness, even if they move or displace the tiles, even on low slopes (10%). In addition, condensation is avoided thanks to the corrugated format of the waterproof asphalt plates and their dry installation system.



Corrugated roof BT 150 Plus (Universal) CAM76

Clay curved (mission) tiles with a width tapering from 18,5 to 22 and tiles with lock
Dimensions: 2m x 1m
Usable area: 1,8m²
954 kg/unit - 150 units/pallet
Fixing: 3-8 / m²



Corrugated roof BT 200 (Curved T4 and T40)

CAM75

Clay curved (mission) tiles with a width tapering from 14 to 18.
Dimensions: 2m x 1m
Usable area: 1,75m²
954 kg/unit - 150 units/pallet
Fixing: 3-8 / m²

SIATE Onduline System (Universal)

The Onduline SIATE roof system is a lightweight and complete solution of thermal insulation and exterior waterproofing for inclined roofs. It stands out for facilitating the installation of thermal insulation on the roof, maintaining a constant thickness and without thermal bridges, which improves performance compared to traditional systems. Composed of insulating sandwich panel and Underroofing System Onduline.



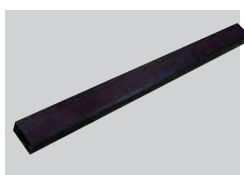
CAM91

Composed of insulating sandwich panel and Onduline Under DRS tile.



CAMA20

Tiles with lock
3 x 2,2 x 200 cm /
1.18" x 0.87" x 78.7"
100 units / box



PVC ribbon BT

Plastic crawler designed to facilitate the installation of tiles with lace on asphalt plates under tile, maintaining ventilation of the roof and avoiding the use of mortar.

Ondufilm roll

CAM79

Seal plate
15 cm x 10 ml longitud /
5.9" x 32.8 ft.
4 rolls/box



CAM77

Wood or metal support
6.5 cm / 2.56"
100 units / box



Universal screw

Being made of carbon steel, it has excellent corrosion resistance and thanks to its metal washer with rubber ensures tightness.

CAM78

Concrete surface
7 cm x 5 mm /
2.75" x 1.96"
200 units / box



Heel nail

Providing great resistance without the need for plastic dowel.

CAM84

Ceramic surface
8 cm x 10 mm /
2.15" x 0.39"
100 units / box



Nylon nail

Thanks to its composition and hollow format the nylon rod that is inserted through the nail expands the wings of this getting the grip of asphalt plates in hollow ceramic elements.

Spiral nail

CAM88

Wood surface
8 cm / 2.15"
200 units / box



CAM87

With CAM88 and CAM78
200 units / box



Washer

Designed to provide tightness to the fixing of asphalt plates with Spiral Nail or when using screws for wood without washer.

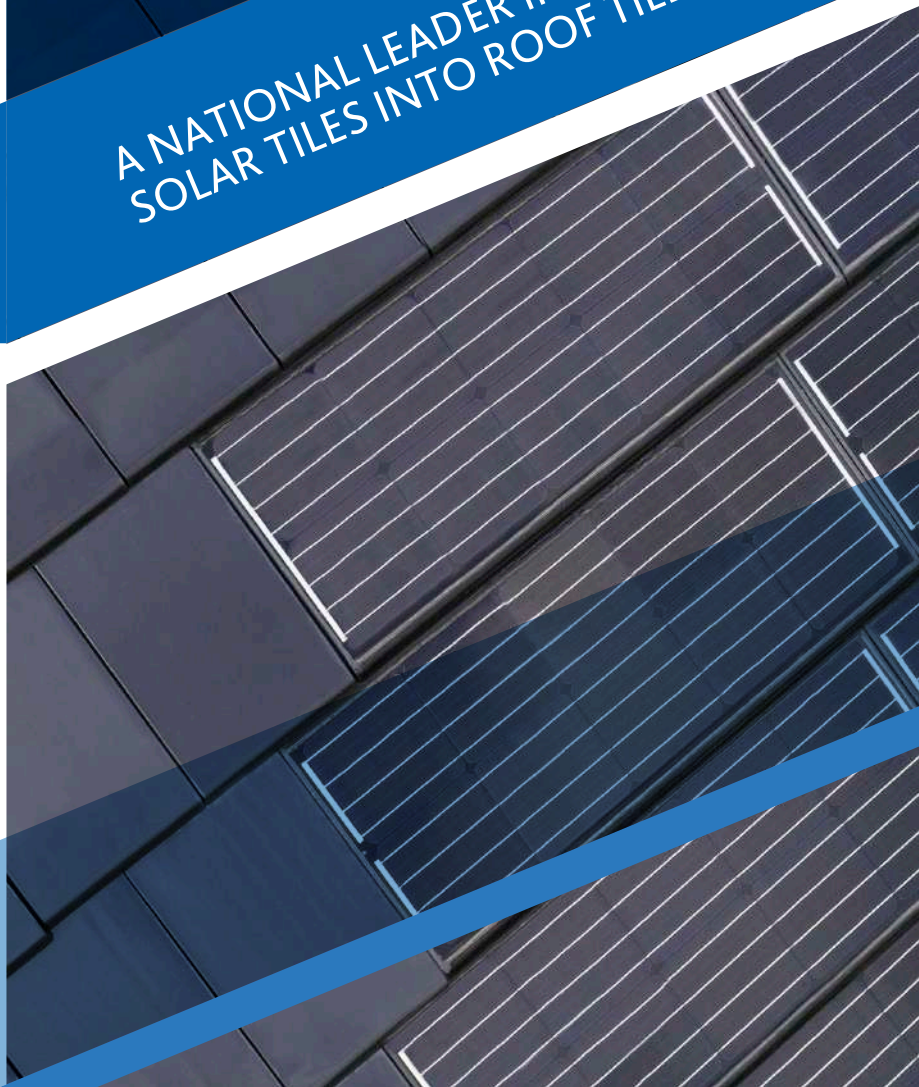
La Escandella

ROOFING THE WORLD

CLAY
ROOF TILES
**THAT MAKE
A DIFFERENCE**



A NATIONAL LEADER INTEGRATING
SOLAR TILES INTO ROOF TILES





360°
SOLUTIONS

La Escandella



C/Bélgica 1, P.I. La Escandella
03698 AGOST (Alicante) SPAIN



Tel. +34 965 691 788
Fax +34 965 691 692



www.laescandella.com
info@laescandella.com