

TRADITIONAL

La Escandella

# CURVED



**La Escandella**  
ROOFING THE WORLD





# CURVED MISSION BARREL

## Renewal of a beautiful tradition

Traditionally, this 2 piece tile, also referred to as Mission barrel, has been the most frequently used roof tile in Europe and in Spanish Colonial Buildings in the New World. Today, this tile is used in the construction of new homes, due to the beauty and wide variety of colours available. It is also used to restore beautiful historic roofs that have been enhanced by natural weathering over time.









# COLOURS & FINISHES



GALIA  
T5



AITANA  
T5 / T4

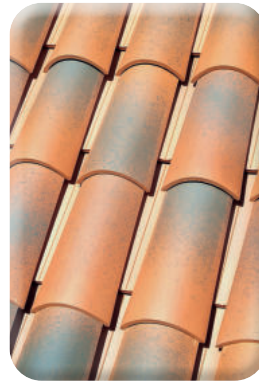
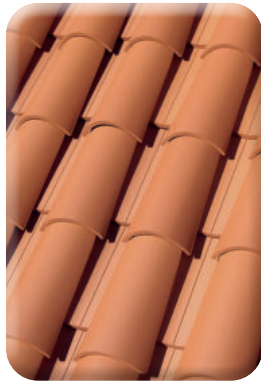


LUCENTUM  
T5 / T4



CASTELL  
T5 / T4

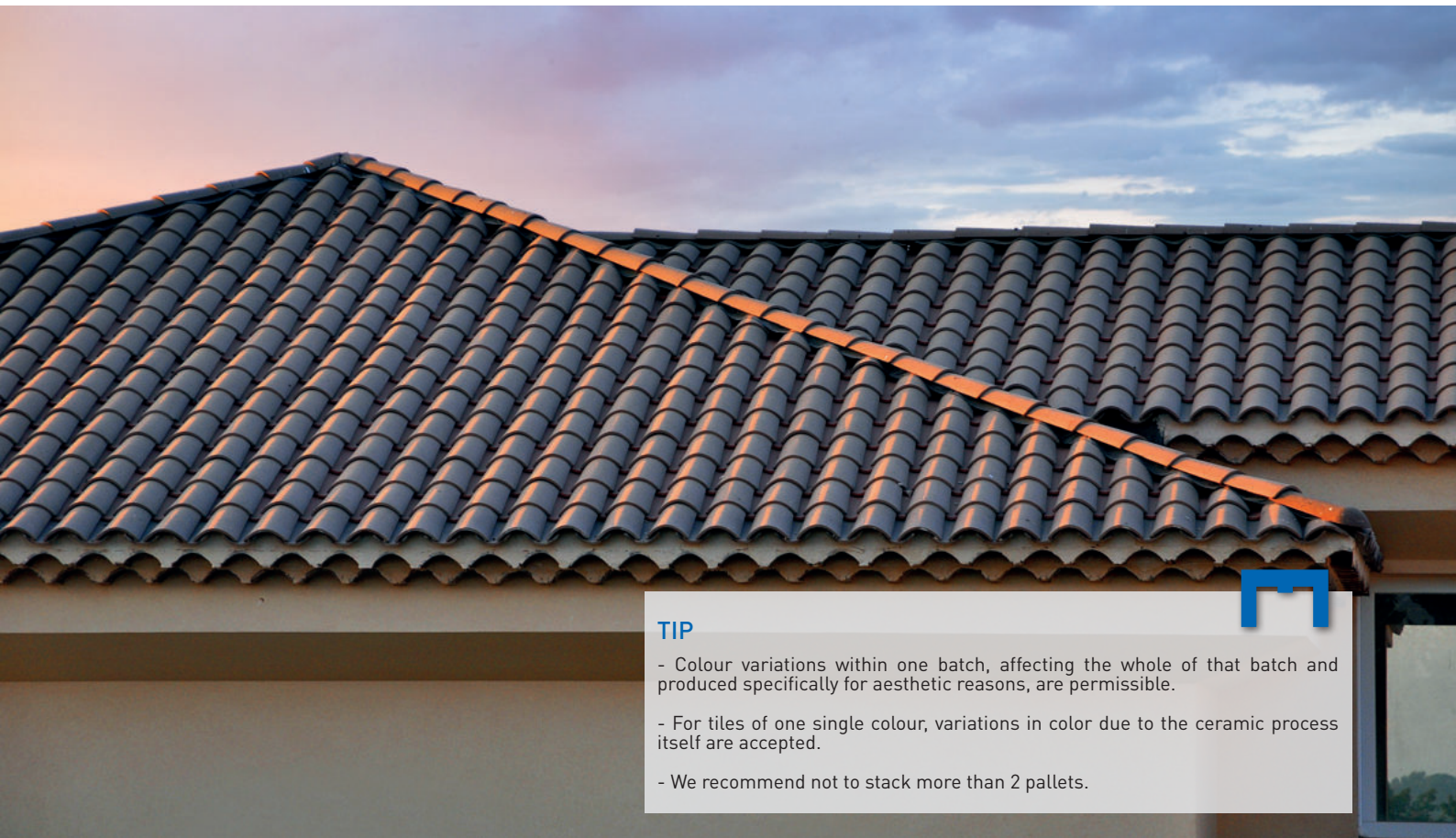




**RED**  
T5 / TT5 / T4 / T40 / T45 / T3 /  
T2 / T1

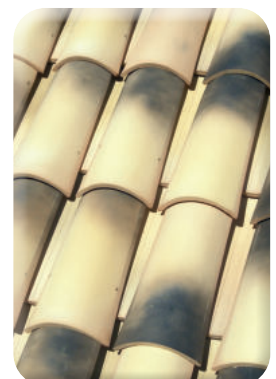
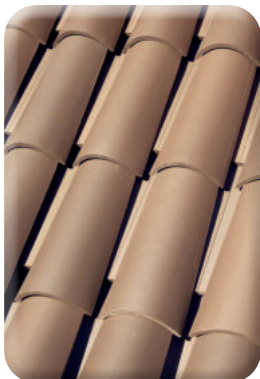
**JASPEE RED**  
T5 / TT5

**HISPANIA**  
T5 / TT5 / T40



**TIP**

- Colour variations within one batch, affecting the whole of that batch and produced specifically for aesthetic reasons, are permissible.
- For tiles of one single colour, variations in color due to the ceramic process itself are accepted.
- We recommend not to stack more than 2 pallets.



**BROWN**  
T5 / T4 / T40

**MILENIUM**  
T5

**PAJA**  
T5 / T4 / T2 / T1

**FLAMED PAJA**  
T4 / T2 / T1

The names of the colours shown in the photos, only represent the finishes of the models identified as Curved Mission Barrel

# CURVED



## Colours and Textures

A variety of colours and textures allow accurate imitation of aged tiles with the guarantee of modern tiles

## High Water Impermeability

A selection of quality clays together with high temperature cooking/baking grant the tile very low water absorption

## Great Versatility

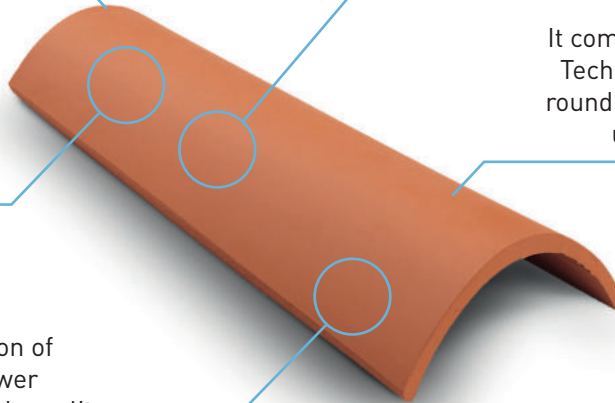
For both the Renovation / Restoration of Emblematic buildings as for the newer Buildings, the Curve tile offers a high quality finish and fine touch

## Higher Resistance

The composition of the clay and its perfect design, allow higher flexion than the standards require

## Easy Installation

It combines the Curve 's Elegance, Technique and perfect Design. Its round edges allow a perfect fit, tile upon tile and better handling



<b>Flexural Strength test (EN 538)</b>	Resistance > 1200N
<b>Water Impermeability (EN 539-1)</b>	Complies with level 1
<b>Frost Resistance (EN 539-2)</b>	Complies 150 cycles

## TECHNICAL CHARACTERISTICS

	T5	T45	T4	T40	TT5
Dimensions*1	A 500 mm / 19.68"	A 450 mm / 17.71"	A 408 mm / 16.06"	A 400 mm / 15.75"	A 495 mm / 19.49"
	B 220 mm / 8.66"	B 200 mm / 7.87"	B 180 mm / 7.10"	B 150 mm / 5.91"	B 220 mm / 8.66"
	C 163 mm / 6.42"	C 160 mm / 6.3"	C 140 mm / 5.51"	C 116 mm / 4.57"	C 156 mm / 6.14"
Pieces per m <sup>2</sup> /sq	Depending on overlapping*2 / 162	22.7	28 / 301	34	9 / 83
Pieces per lm.	2.4	2.7	3	4	2.4
Weight per piece	2.55 kg / 5.62 lbs	1.95 kg / 4.30 lbs	1.60 kg / 3.53 lbs	1.35 kg / 3.00 lbs	2.80 kg / 6.17 lbs
Units per pallet	275*3	550	720*4	840	175
Weight per pallet	701 kg / 1,545 lbs	1,073 kg / 2,366 lbs	1,152 kg / 2,540 lbs	1,134 kg / 2,500 lbs	490 kg / 1,080 lbs

\*1 The Tile dimensions indicated in this chart, allow a tolerance of approximately ±2%.

\*2 Depending on overlapping: 70 mm / 2.75" (18 pieces / m<sup>2</sup>); 100 mm / 3.93" (18,9 pieces / m<sup>2</sup>); 150 mm / 5.9" (20 pieces / m<sup>2</sup>).

\*3 Except for colour Paja - units/pallet 300 - weight/pallet 765 Kg / 1,687 lbs

\*4 Except for colour Paja and Flamed Paja - units/pallet 624 - weight/pallet 998 Kg / 2,200 lbs

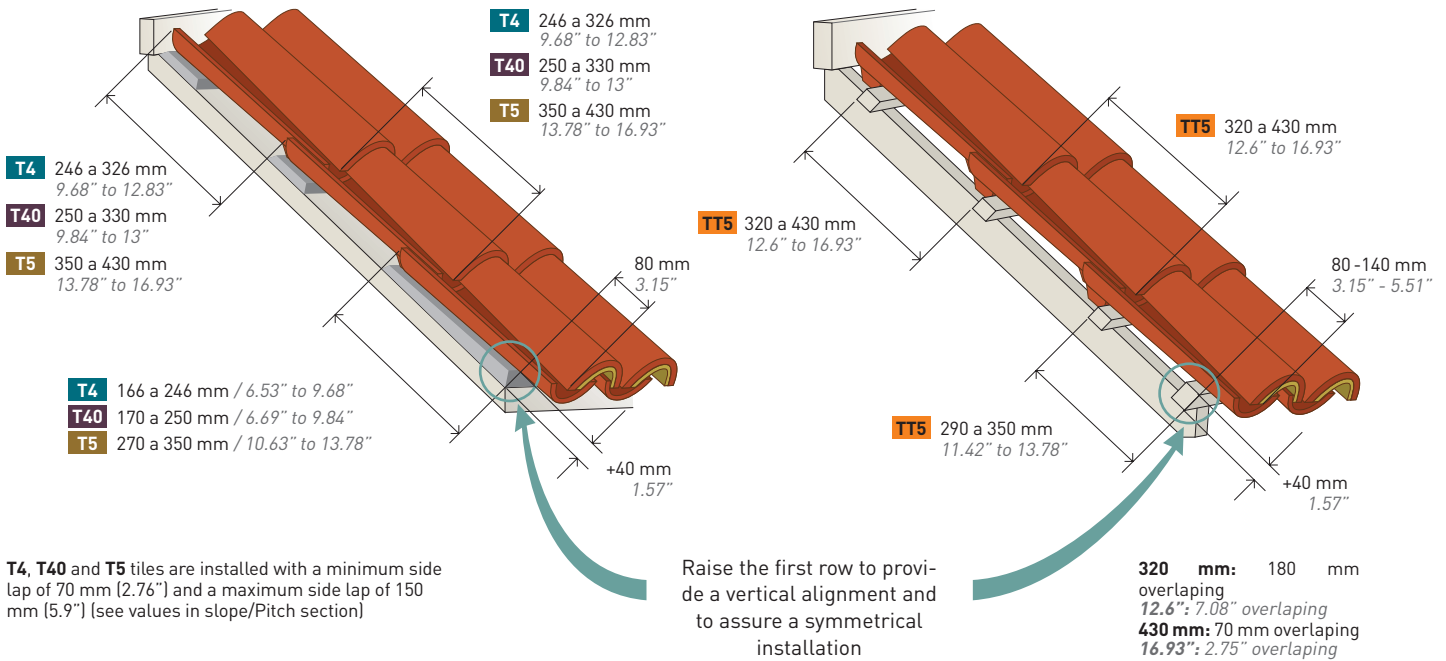


\* (Valid for T5)

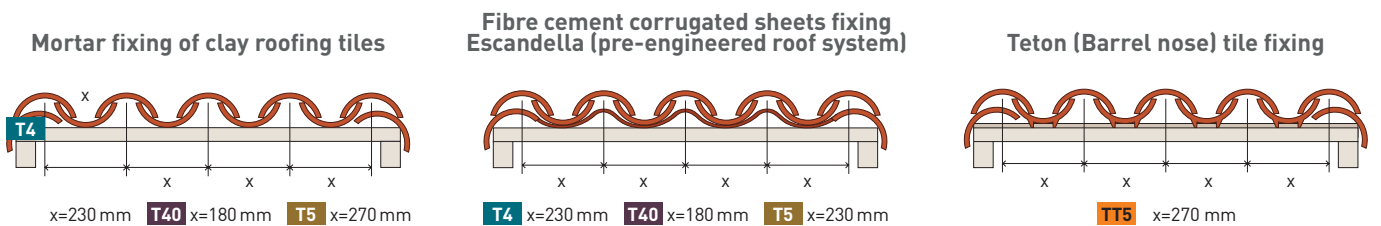
NOTE: during the manufacturing process, handling or transport, small friction can occur on the gloved decorated roof tiles, due to the contact of support of some tiles on others. Such friction doesn't affect the structure of the tile or its quality. It's only perceptible on the hand and, therefore, comply with the guarantee of Cerámica La Escandella.

# COLOCACIÓN

## LONGITUDINAL FIT



## TRANSVERSAL FIT



### TIP

Widthwise or lengthwise laid suggested in the technical catalogues are theoretical. The roofer must calculate the real widthwise or lengthwise laid of the tiles to be installed according to the methods defined in the rules in force in our installation manual.

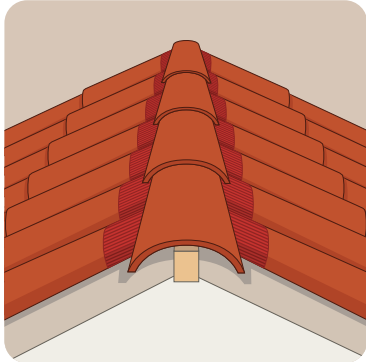
Tiles are manufactured with natural components and fired at high temperature which generates small dimensional variations.

Download the  
**INSTALLATION  
 MANUAL**



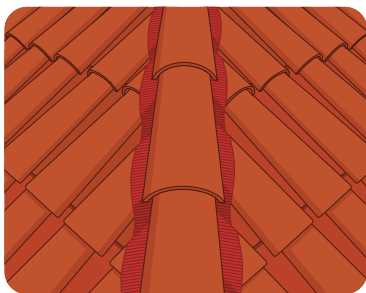


# INSTALLATION DETAILS



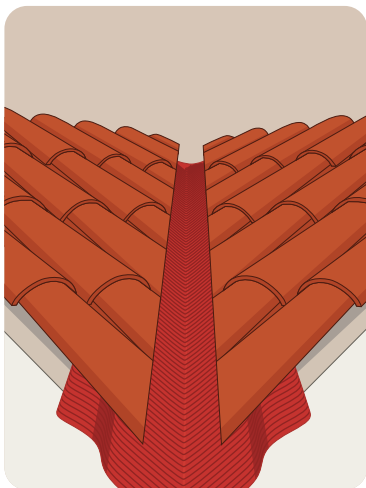
## RIDGE

- Ridge tiles must be installed lap facing away from the prevailing winds, in order to assure water tightness.
- Field tiles at top course should be secured directly either into the deck or top batten with stainless ring screw nails or similar.
- All ridges and hips shall be covered with self adhesive Alu-Roll, La Escandella Aluminum roll for hip and ridges (CAM01, CAMF1, CAM09, CAMF9), or similar approved breathable waterproof underlayment. Underlayment should be secured over the ridge nailer with non-corrosive roofing nails.
- Apply ridge tiles with a minimum overlapping of 5 cm (2") throughout the ridgeline facing away from the prevailing wind-driven rain.



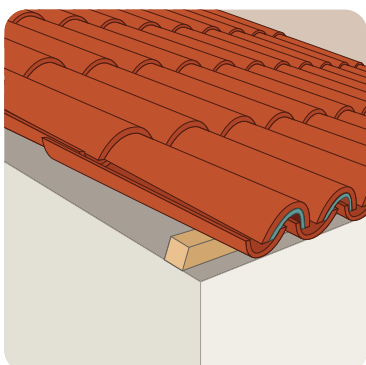
## HIP

- Hip tiles must be installed in the same way as in the ridge.
- Field tiles must be cut parallel to the hip line and secured.
- All ridges and hips shall be covered with self adhesive Alu-Roll, La Escandella Aluminum roll for hip and ridges (CAM01, CAMF1, CAM09, CAMF9), or similar approved breathable waterproof underlayment.
- Air should be able to flow through the ridge and hip area. Be sure not to close these off with mortar or similar. Closing them off could result in cracks, peeling off,.. in freezing and thawing cycles.



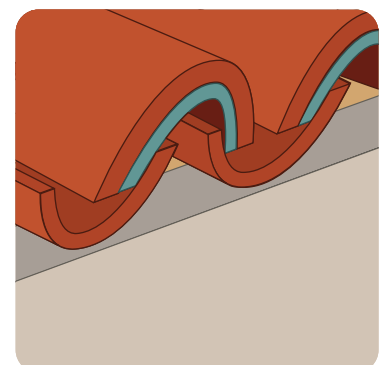
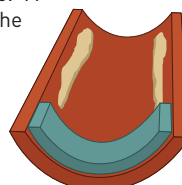
## VALLEY

- Both Valley and eave line channel are particularly vulnerable to water migration and leakage. Valleys should have a clear and unobstructed pathway for quick water drainage.
- Install valley battens on each side of the valley crease. Alu-roll Valley (CAM18), or similar approved adhered waterproof valley underlayment, shall be laid vertically up all valleys in addition to other required underlayment that should be fixed by using glue, resin or similar.
- Where valley intersects with ridge line, apply Alu-roll Valley (CAM18), or similar approved underlayment, which should be covered by the ridge tile. Valley should be extended along the eaves to overhang the fascia board by 5cm (2") or over the gutter.
- Tiles should be laid parallel to the valley line, at same relative angle and should overhang the valley battens by at least 10 cm (4").
- Tiles at each side of the valley crease should be laid to provide a minimum 15 cm (6") width gap (tiles should held back minimum 7.5 cm (3") from the center of the valley each way).
- Valley tiles must be secured.
- Proper Valley flashing installation is required to ensure water tightness in order to avoid cracks, peeling off,...



## EAVE

- The tiles structuring the eave will have a min. 5cm (2") and max. 8cm (3.15") overhang at the eave.
- A booster tile is set and fastened over the lower edge of each pan tile. A starter tile is then fastened over the booster tile at the eave.

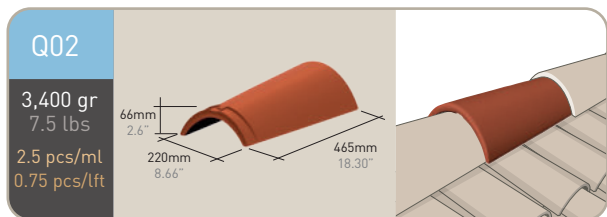




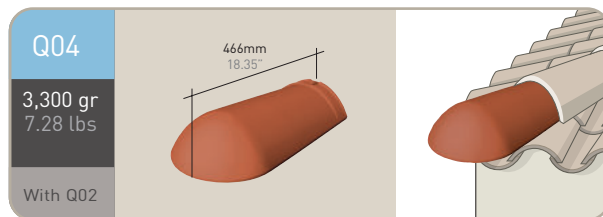
# ACCESSORIES

To satisfy all needs and allows a perfect finish to your roof, La Escandella offers a wide range of specific accessories for the Curved Roof Tile, available in all its colours.

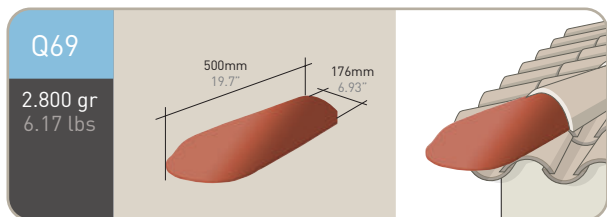
## Round ridge / Hip



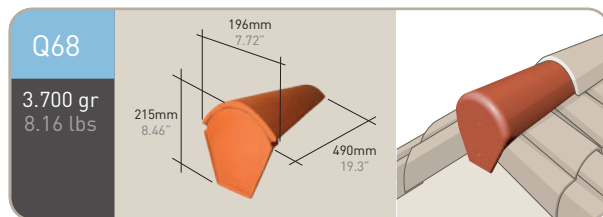
## Round ridge end / Hip starter



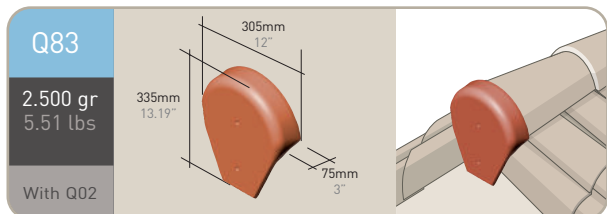
## Ridge end Curved 50 / 50 Mission



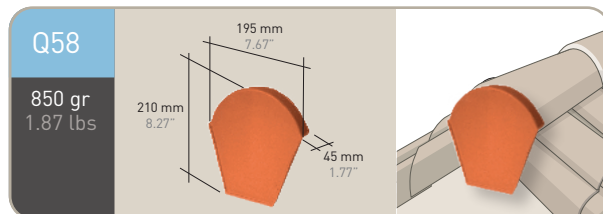
## End cap Curved 50 / 50 Mission



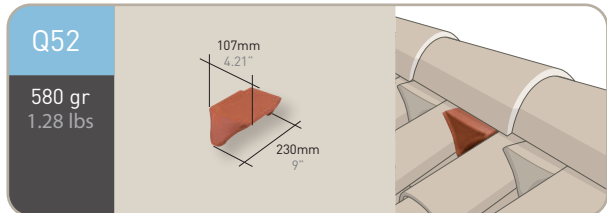
## End cap round ridge



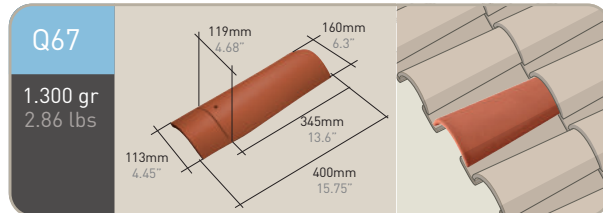
## Only End cap Curved 50



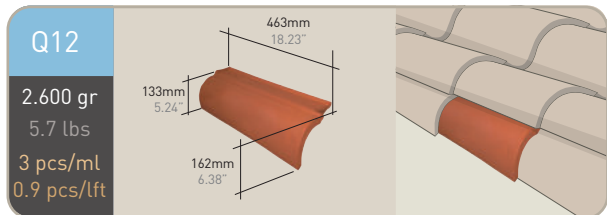
## Wedge Curved Roof Tile 40x15



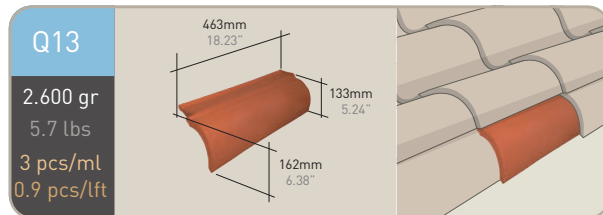
## Eave Curved Roof Tile 40x15



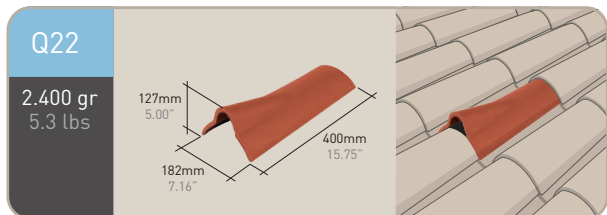
## Round left side course / rake



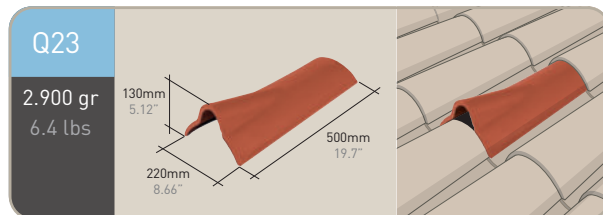
## Round right side course / rake



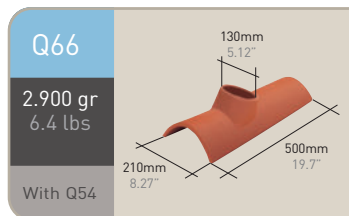
## Ventilation tile Curved 40x18 / 40x18 Mission



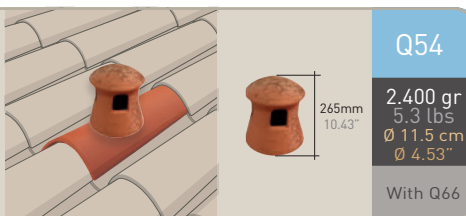
## Ventilation tile Curved 50 / 50 Mission



## Chimney support / Pipe tile Curved 50 / 50 Mission



## Chimney / pipe cover





# ROOF ACCESSORIES FOR VENTILATED ROOFS

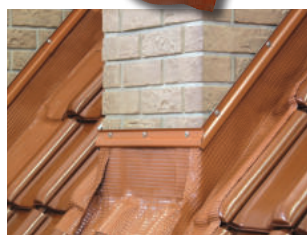
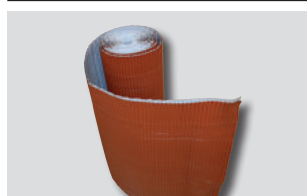
La Escandella offers a wide range of non-ceramic accessories which help finish off any type of roof. From waterproofing to ventilation, fixing and batten installing, safety implementation and multiple profiles can be found here. [Ask for wider range in last Price List].

**CAM01 / CAMF1**  
Alu-Roll With Micro Cut



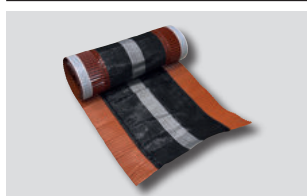
Width: Several sizes  
Colours: Red, brown, black.

**CAM08 / CAMF8**  
Alu-Flex



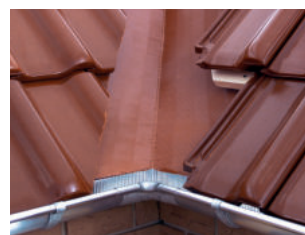
Width: Several sizes  
Colours: Red, brown, black.

**CAM09 / CAMF9**  
Alu-Roll Membrane



Width: Several sizes  
Colours: Red, brown, black.

**CAM18**  
Alu-Valley Tape



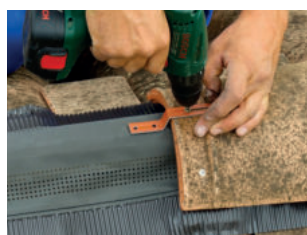
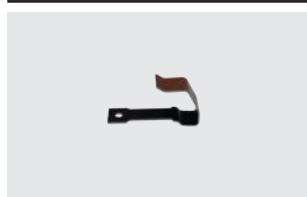
Width: 50 mm / 1.96"  
Colours: Red, black, brown.

**CAM65 / CAM21 / CAM52 / CAM53**  
Waterproof membrane



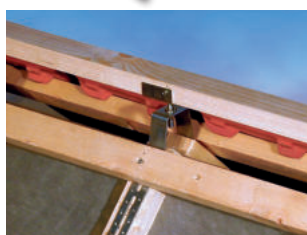
Dimensions: 1.5 m x 50 m / 1.64 yd x 54.68 yd  
Weight: several weights.

**CAM27NEW**  
Ridge Tile Hook



Colours: Red, brown, black.

**CAM05 / CAM010 / CAM51**  
Ridge Batten Bracket



Dimensions: Several sizes.

**CAM16**  
Eaves Ventilation Comb

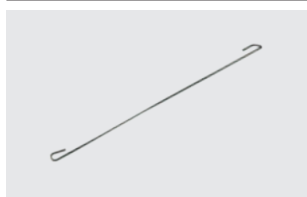


Dimensions: 6cm x 1m / 2.36" x 39.37"  
Colours: Red, brown, black.

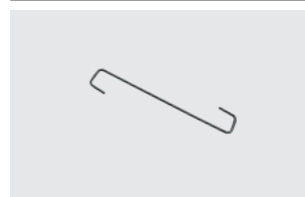
MORE INFO  
ON THE  
WEBSITE



**CAM74**  
Eave metal clip



**CAM15 / CAM25 / CAM61**  
Metal clip



Dimensions: 14, 7.2 or 17 cm / 5.51, 2.83 or 6.69"



# TECHNICAL INFORMATION

## SLOPES / PITCHES

The minimum pitch standard recommendations should always be followed (see values in the referral table). On all pitches below the standard recommended minimums, or in regions where ice dams may occur, a waterproof underlayment on the entire deck **MUST** be applied. Most problems with water-shedding roof installations occur from water that migrates through the joints of the tiles through capillary action, wind-driven rain, and runoff or ice damming. Because of this possibility, the underlayment is critical to the success of the roof.

PROTECTED LOCATIONS	Slope	26%	28%	30%	32%	34%	36%	38%	40%	42%	44%	>46%
	Slope	15°	16°	17°	18°	19°	20°	21°	22°	23°	24°	>25°
	Overlapping	15,0	14,0	13,5	13,0	12,5	12,0	11,5	11,0	10,0	10,0	7,0
NORMAL LOCATIONS	Slope	26%	28%	30%	32%	34%	36%	38%	40%	42%	44%	>46%
	Slope	15°	16°	17°	18°	19°	20°	21°	22°	23°	24°	>25°
	Overlapping	*	15,0	14,5	14,0	13,5	13,0	12,5	12,0	11,0	10,0	7,0
EXPOSED LOCATIONS	Slope	26%	28%	30%	32%	34%	36%	38%	40%	42%	44%	>46%
	Slope	15°	16°	17°	18°	19°	20°	21°	22°	23°	24°	>25°
	Overlapping	*	*	*	15,0	14,5	14,0	13,5	13,0	12,0	11,0	7,0

\*Critical situation: a waterproofing underlayment on the entire deck **MUST** be applied.

**Note:** for hips LESS than 6.5m long, in normal locations or unfavorable climatic zone, the 32% slope **MUST BE APPLIED**.

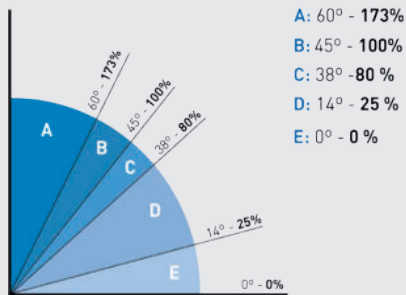
**PROTECTED LOCATIONS:** hollow area which is surrounded by hills that protect the hollow from the winds in all directions.

**NORMAL LOCATIONS::** Flat area, plateau with minimal elevation changes.

**EXPOSED LOCATIONS:** Places open to strong winds, coastal areas (up to 5 km / 3 miles from the shoreline), islands or narrow peninsulas, estuaries or closed bays, narrow valleys, isolated mountains, mountain passes and earthquake zones.

## FIXATION

The slope of a roof determines the level of fixation of the tiles required. The fixation of the tiles may be necessary to prevent the sliding of the rooftiles or to prevent their lifting by the effect of the air. **In eaves, right and left side course, lines of ridge, valleys, encounters with vertical walls and other singular points, all the pieces will be fixed.** For all other parts, the level of fixation will depend on the pitch.



**A:** Every tile should be securely fastened (Nailed, screwed, clipped...) (60° / 203/4:12).

**B:** As a minimum, each tile in every five proportion, should be secured with (10 gauge) non-corrosive ring shank nails or screws (45° / 12:12).

**C:** Each tile hangs on the batten (held by the nib) (38° / 10:12).

**D:** Each tile hangs on the batten, held by the nib. When mortar is used, back bed and face point with color matched mortar. Clean off all excess mortar from the face of the tiles. For Foam Adhesive, refer to local building codes.

**E:** La Escandella recommended minimum slope requirements is 30% (4:12).

**NOTE:** The locking function is performed by the metal clamps / hooks. Polyurethane foam acts only as a positioner. Any fastening done with screws, nails, clips etc., must be sealed in order to prevent water entering. All fasteners must be non-corroding.

## VENTILATION

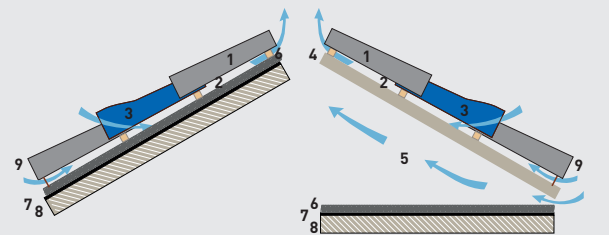
Ventilation is one of key elements to assure a good hygrothermal behavior of the roof and preservation of the roof structure. The key to a good and well preserved roof is a good ventilated roof. Proper installation of Ventilation tiles combined with ventilated roof can result in energy savings, in a more energy efficient home.

Air should be able to flow through the eave and ridge; be sure not to close these off with cement, mortar or similar. Eave and ridge areas should be protected to help minimize the access of birds and vermin infiltration.

A free flowing ventilation area must be provided through the roof deck. This ventilation should be evenly distributed throughout the roof space to eliminate any dead air space.

La Escandella recommends a minimum of 1 ventilation tile (Q22/ Q23) for every 7 m<sup>2</sup> (1.32 vent tiles per 100 sq ft.) and with a minimum of 2 ventilation tiles per roof surface, installed on the upper part of the roof.

Using a proper ventilation system is the best way to avoid moisture in a roof, that could cause peeling, cracking and other defects on the tile.



- |  |   |
|--|---|
| <p><b>NON-VENTILATED ROOF</b></p> <ol style="list-style-type: none"> <li>1. Roof tile</li> <li>2. Micro-ventilation void</li> <li>3. Ventilation roof tile</li> <li>4. Rafter</li> <li>5. Attic</li> </ol> | <p><b>VENTILATED ROOF</b></p> <ol style="list-style-type: none"> <li>6. Heat insulation underlayment</li> <li>7. Waterproof underlayment material</li> <li>8. Frame</li> <li>9. Eaves ventilation comb / bird stop</li> </ol> |
|--|---|

La Escandella warranty will be honored when installation is in strict accordance with local building codes, particularly to those referring to the ventilation of the deck and minimum slope requirements. Clay roof tiles should always be installed in full compliance with the local building codes and good tiling practice. For each country, please refer to local building codes.





[www.laescandella.com](http://www.laescandella.com)



CATALOGUE  
LATEST  
VERSION



Colour Shall be Harmonized but clay tiles are a natural product and some shade variations between individual pieces enhance their beauty and should be expected. All Tiles should be blended regardless of the number of colours supplied. Colours of the tiles shown in this catalogue can not faithfully reflect the colours of the ceramic tiles.

On their products, La Escandella has right to make changes in dimensions, fittings, weight & units per pallet, without previous notice. For more information, please contact your Sales Representative or our Customer Service.

This catalogue, printed in January 2024, replaces the existing ones.