TRADITIONAL
La Escandella

MIXED
"S" LARGE



La Escandella
ROOFING THE WORLD





MIXED "S"

A double curvature mixed "S" roof tile where eaves and ridge tiles assure design and functionality to provide easy-to-install roofs with the special characteristic beauty of the Mediterranean roofs

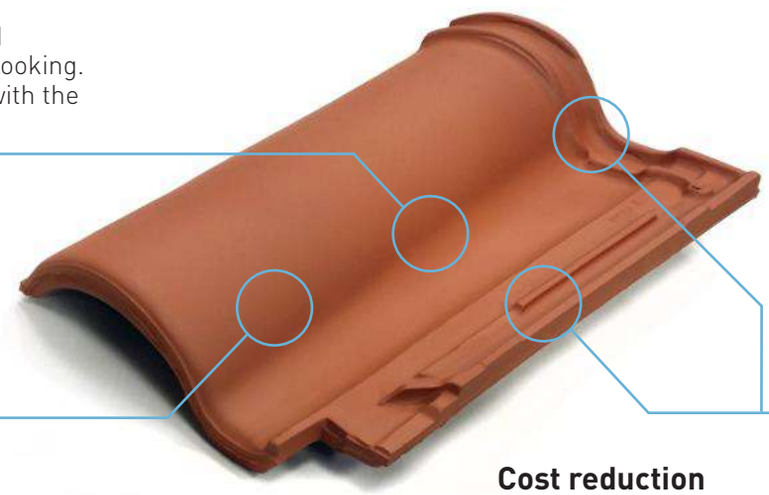
A large variety of accessories available to guarantee timeless durability under any kind of building work and satisfy the needs and preferences of all professionals





MIXED “S” LARGE

Double curvature
Its double curvature, eave and ridge joints design and functionality as Arab roofs looking. Mediterranean aesthetics with the easiest fixation.



More breakage resistance
Clays composition and perfect press performance make flexion rates higher than even the Standard ones

Double interlocking
The double interlocking –horizontal and vertical- allows the roof to be more watertight, ensuring its impermeability

Wide range of colors
A roof tile with a wide range of colors and complements to satisfy all professionals’ needs and preferences; suitable to all type of roofs (new and aged ones).

Cost reduction
Its large format (10.5 pcs/sqm) and strapping every 5 units allow to reduce installation costs.

TECHNICAL CHARACTERISTICS

Flexural Strength test (EN 538)	Resistance > 1200N
Water Impermeability (EN 539-1)	Complies with level 1
Frost Resistance (EN 539-2)	Complies 150 cycles
Geometric Characteristics (EN 1024)	Flatness / Straightness ≤ 1,5%

Dimensions*	A: 465 mm; B: 283 mm; C: 75 mm A: 18.31”; B: 11.14”; C: 2.95”
Pieces /m^2 - P./sq.	10.5 - 97
Weight piece	3.85 kg / 8.49 lbs
Longitudinal fit **	396 mm (+7mm; -4mm) / 15.59” (+0.27”; -0.16”)
Transversal fit **	230 mm (± 3mm) / 9.05” (±0.11”)
Units per pallet	180 / 240
Weight per pallet	693 kg (1,527.8 lbs) / 924 kg (2,037.1 lbs)
Laying	Straight bond

*The tile dimensions indicated in this chart allow a tolerance of approximately +/-2%
**Theoretic value: this should be re-calculated on site with the tiles that are to be used.

Low pitch roofs La Escandella

EN 1304 According to European standard
EN 539-2 Test of frost resistance
EN 539-1 Impermeability
EN 538 Flexural strength test
EN 1024 Geometric characteristics

MIAMI-DADE COUNTY APPROVED



WARMTH AND DELIGHT IN OUR MOST MEDITERRANEAN ROOF TILE

COLOURS & FINISHES





PAJA*
(RED CLAY)



FLAMED PAJA*
(RED CLAY)



MILENIUM



GALIA

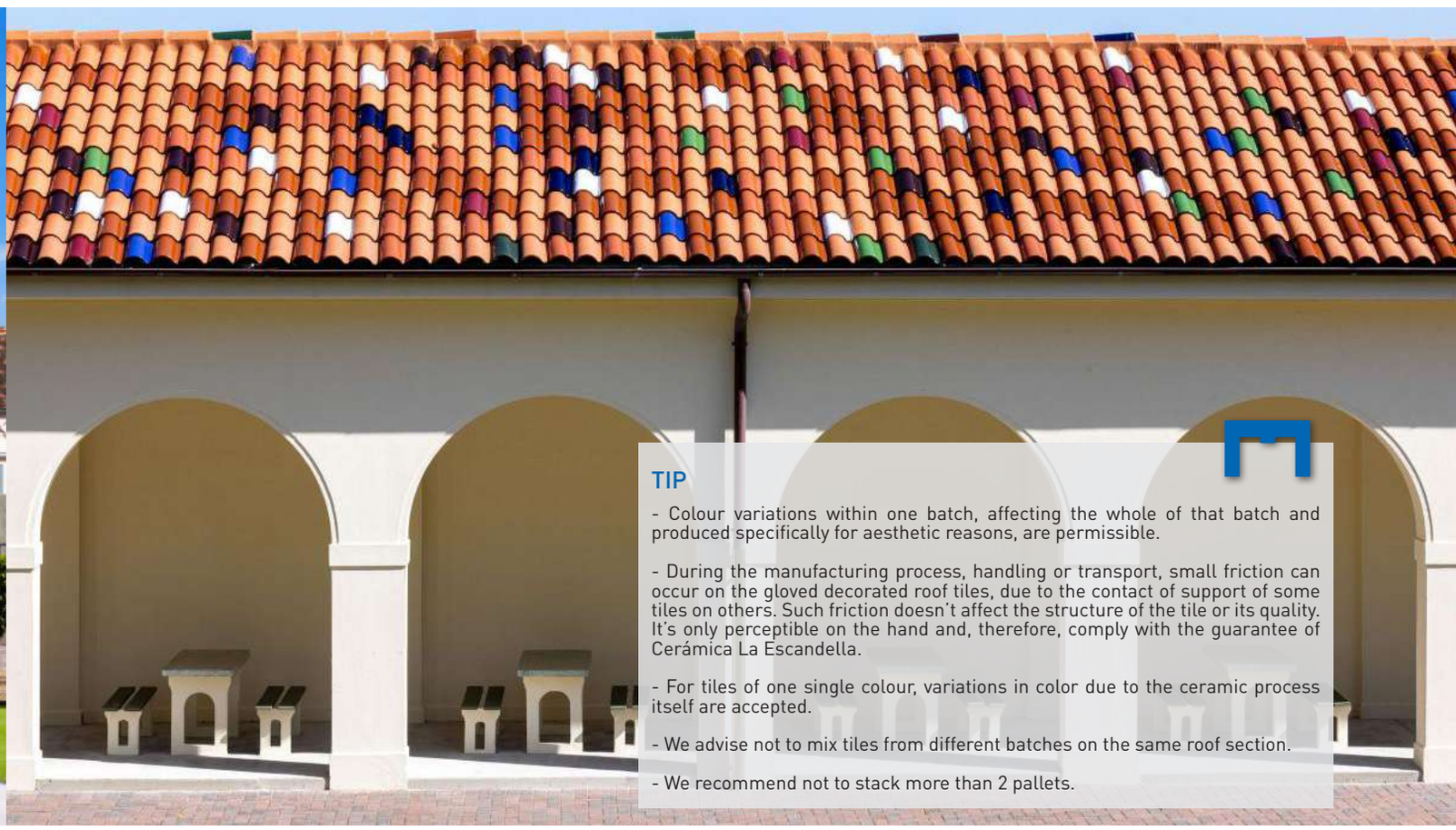


HISPANIA






RED | JASPEE RED | **BOURGOGNE** | TOSSAL



TIP

- Colour variations within one batch, affecting the whole of that batch and produced specifically for aesthetic reasons, are permissible.

- 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.

- For tiles of one single colour, variations in color due to the ceramic process itself are accepted.

- We advise not to mix tiles from different batches on the same roof section.

- We recommend not to stack more than 2 pallets.







CASTELL* | AITANA* | LUCENTUM* | BROWN | SLATE

* We palletize 1/3 of the tiles with painted eave
The names of the colours shown in the photos, only represent the finishes of the models identified as Mixed "S"

LAID METHOD

1. Installation will begin with La Escandella Mixed "S" left side courses (rakes) from the eave to the ridge, allowing a 5 cm (2") overhang at the eave. All side course (rake) tiles shall be installed with fasteners typical of the field tile installations.

2. The starter course will begin with a full tile from the eave to the ridge, allowing a 5cm (2") overhang at the eave. The tiles structuring the eave will have to overlap the side course (rake) and fit together one to another. The second course of the tile will lay up directly over the previously installed field tile to the proper exposure and overlapping.

3. See **(fig.1)** for sequence of installation for fist and succeeding courses of tiles from the eave to the ridge.

4. The right section (vertical terminating end) of the roof can be finished by using either a Half (1/2) Tile (Q16 - Q17) **(fig.2)** or a Double Tile (Q33 - Q34) **(fig.3)**.

5. For a faster installation and extra ridge ventilation, an Under Ridge Tile (Q70) **(fig.2)** and/or a Double Under Ridge Tile (Q71) **(fig.3)**, is recommended when reaching the ridge line.

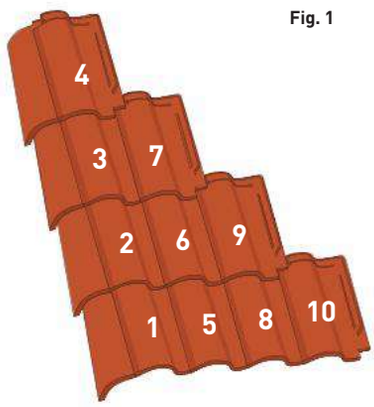
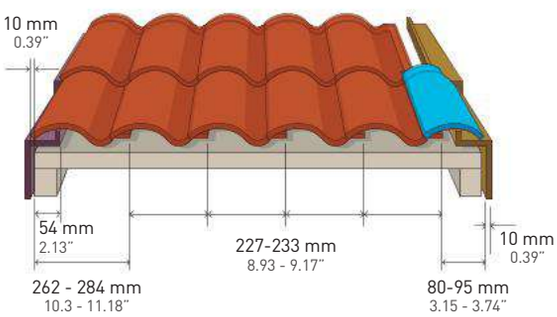


Fig. 1

Half Mixed "S" roof tile laying

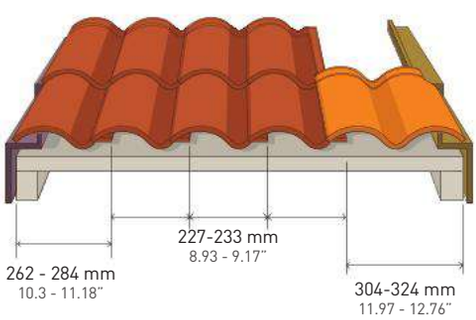

Fig. 2



Mixed "S" roof tile
Q10 Straight left side course
Q11 Straight right side course
Q16 Half Mixed "S" roof tile
Q33 Double Mixed "S" roof tile
Q70 Under Ridge tile
Q71 Double Under Ridge tile
Q35 2/3 under ridge tile
Q37 Double 2/3 under ridge tile

Double Mixed "S" roof tile laying


Fig. 3



To avoid cutting the field tiles when reaching the ridge line, a 2/3 under ridge tile (Q35 - Q36) can be used in the upper course and closed by using a Double 2/3 under ridge tile (Q37 - Q38).

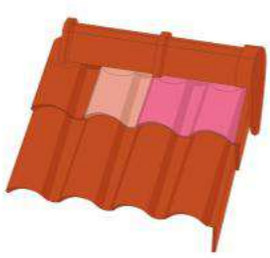


Fig. 4

TIP

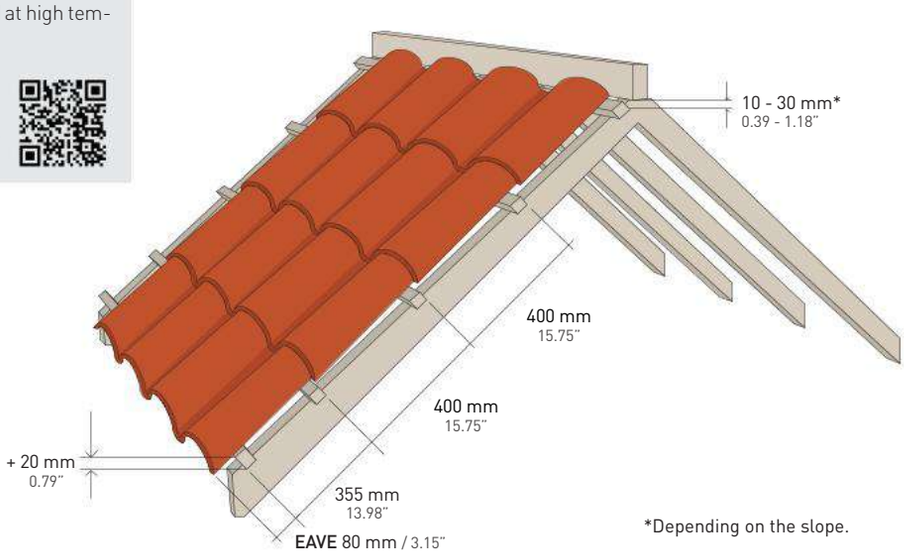
Widthwise or lengthwise laid suggested in the technical catalogues are theoretical. The roofer must calculate the real widthwise or lengthwise laid of the tiles to be installed according to the methods defined in the rules in force in our installation manual.

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

Download the INSTALLATION MANUAL

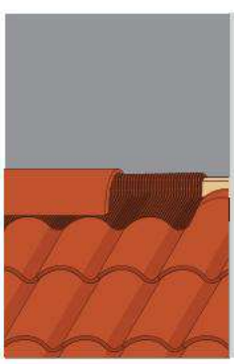
NOTE: A control line between 3 and 5 rows of tiles (maximum) is recommended.

First course batten should be 20 mm (3/4") higher than all succeeding course battens to provide a vertical alignment and to assure a symmetrical installation



*Depending on the slope.

INSTALLATION DETAILS



RIDGE

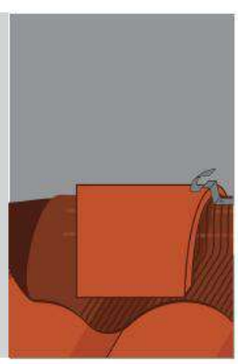
-Ridge tiles must be installed lap facing away from the prevailing winds, in order to assure water tightness.

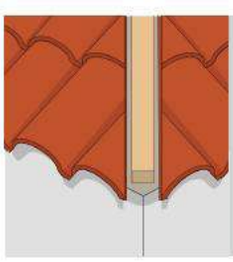
-Field tiles at top course should be secured directly either into the deck or top batten with stainless ring screw nails or similar.

-All ridges and hips shall be covered with Under ridge roll or similar approved breathable waterproof underlayment.

Underlayment should be secured over the ridge nailed with non-corrosive roofing nails.

-Apply ridge tiles with a minimum overlapping of 5 cm (2") throughout the ridge line facing away from the prevailing wind-driven rain.





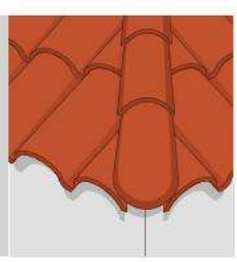
HIP

-Hip tiles must be installed in the same way as in the ridge.

-Field tiles must be mitter cut parallel to the hip line and secured.

-All ridges and hips shall be covered with Under ridge roll 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. Roll or plate aluminium valley tape, 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 roll or plate aluminium valley tape, 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,...

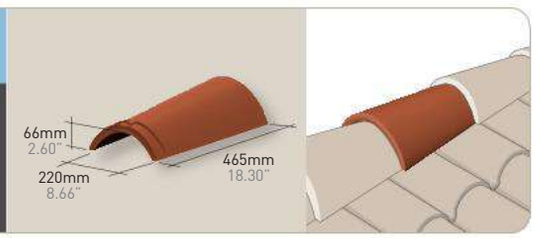


ACCESSORIES

La Escandella offers a complete line of Large mixed "S" Roof tile accessories, available in any standard color, to customize your roof.

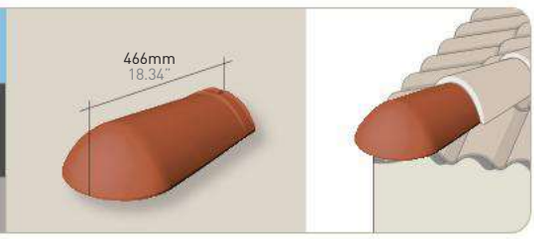
Prime ridge / Hip

Q02
3,400 gr
7.5 lbs
2.5 pcs/lm
0.75 pcs/lft



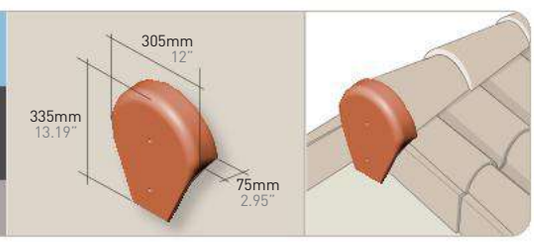
Prime ridge end / Hip starter

Q04
3,300 gr
7.28 lbs
With Q02



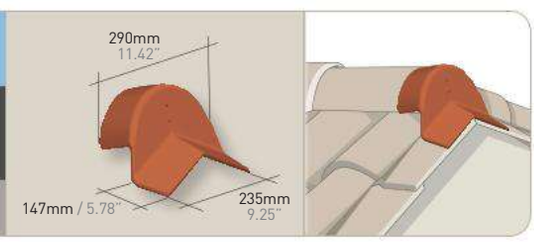
Prime end cap ridge

Q83
2,500 gr
5.51 lbs
With Q02



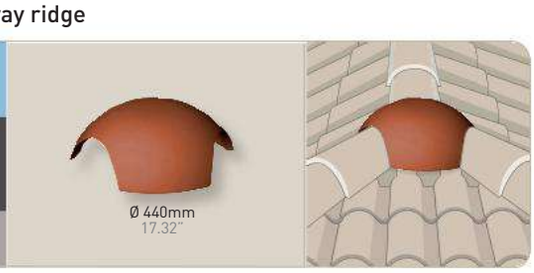
Bardelis end cap / gable end

Q64
2,300 gr
5.07 lbs
With Q02



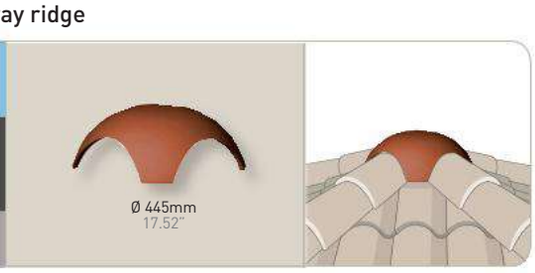
Prime 3 way ridge

Q44
4,600 gr
10.14 lbs
With Q02



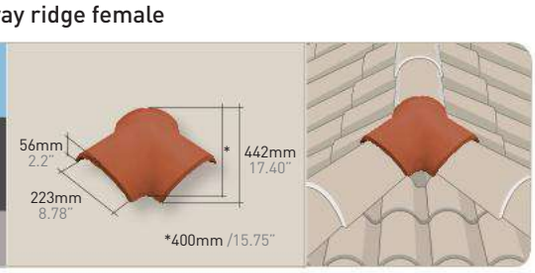
Prime 4 way ridge

Q45
4,100 gr
9.04 lbs
With Q02



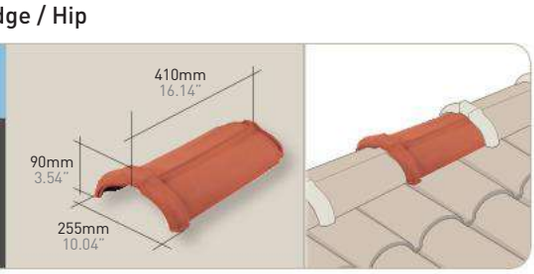
Prime 3 way ridge female

Q55
4,100 gr
9.04 lbs
With Q02



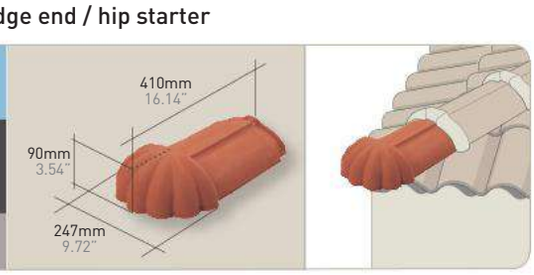
Classic ridge / Hip

Q01
2,600 gr
5.73 lbs
3 pcs/lm
0.9 pcs/lft



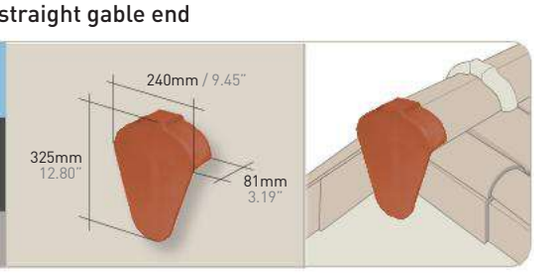
Classic ridge end / hip starter

Q03
2,800 gr
6.17 lbs
With Q01



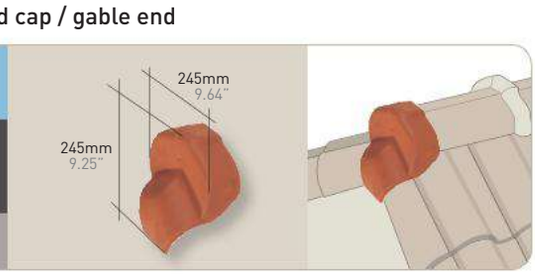
End cap / straight gable end

Q05
2,100 gr
4.63 lbs
With Q01



Round end cap / gable end

Q06
1,700 gr
3.75 lbs
With Q01



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 Care Service.

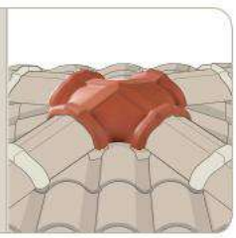
Classic 4 Way ridge (same slope)

Q30

4,650gr
10.25 lbs

With Q01



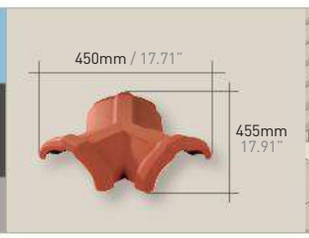


Classic 3 Way ridge (same slope)

Q07

4,000 gr
8.82 lbs

With Q01



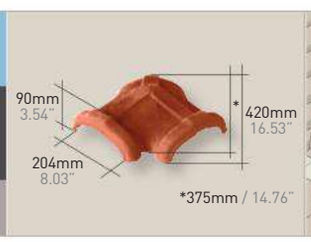


Classic 3 Way ridge with slope

Q60

3,700 gr
8.16 lbs

With Q01





Classic 3 Way ridge female with slope

Q42

3,700 gr
8.16 lbs

With Q01

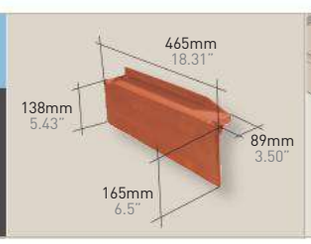




Straight left side course / rake

Q10

3,100 gr
6.83 lbs
2.5 pcs/lm
0.75 pcs/lft

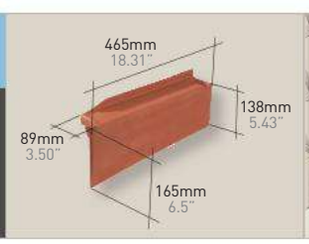




Straight right side course / rake

Q11

3,100 gr
6.83 lbs
2.5 pcs/lm
0.75 pcs/lft

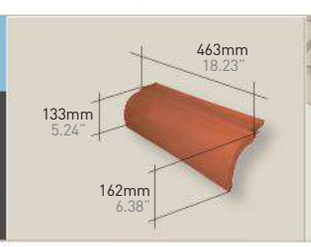




Round left side course / rake

Q12

2,600 gr
5.73 lbs
2.5 pcs/lm
0.75 pcs/lft

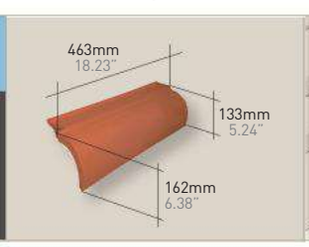




Round right side course / rake

Q13

2,600 gr
5.73 lbs
2.5 pcs/lm
0.75 pcs/lft

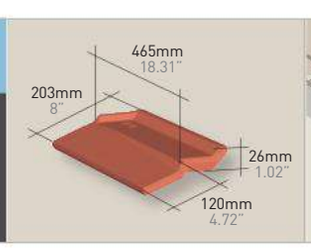




Bardelis left side course / rake

Q62

2,700 gr
5.95 lbs
2.5 pcs/lm
0.75 pcs/lft





Bardelis right side course / rake

Q63

2,600 gr
5.73 lbs
2.5 pcs/lm
0.75 pcs/lft

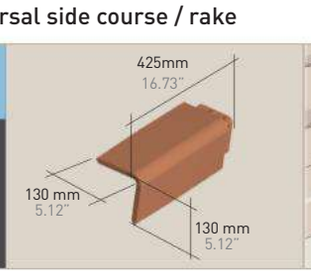




Flat universal side course / rake

Q79

2,850 gr
6.28 lbs
2.5 pcs/lm
0.75 pcs/lft



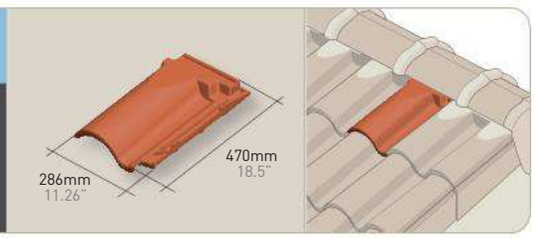


ACCESSORIES

Under ridge tile

Q70

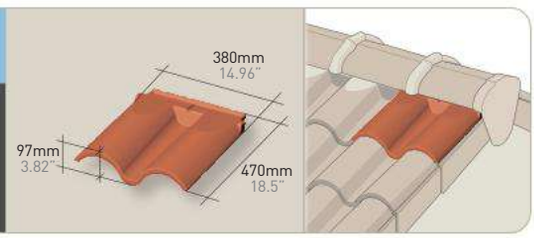
4,200 gr
9.26 lbs



Double under ridge tile

Q71

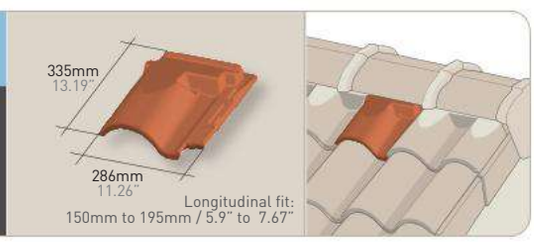
6,100 gr
13.45 lbs



2/3 Under ridge tile

Q35

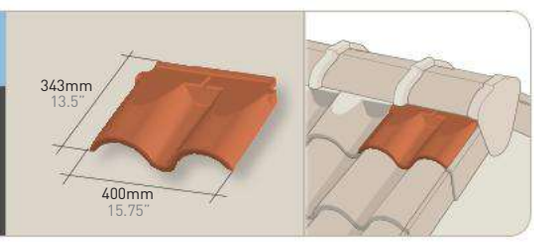
3,000 g
6.61 lbs



2/3 Double under ridge tile

Q37

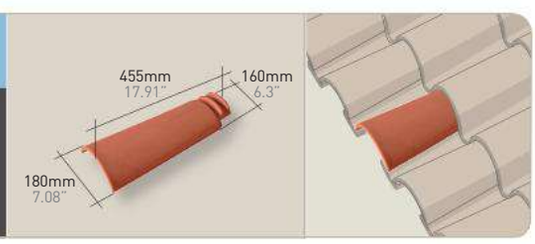
3,850 gr
8.48 lbs



Ridge / cover eave with same slope

Q80

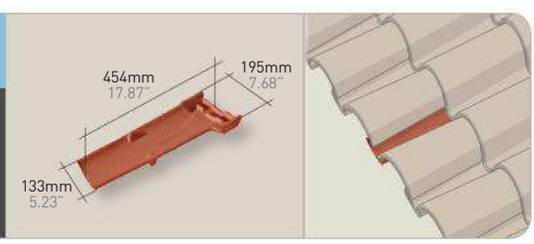
2,300 gr
5.07 lbs
4 pcs/lm
1.2 pcs/lft



Channel / pan eave with same slope

Q81

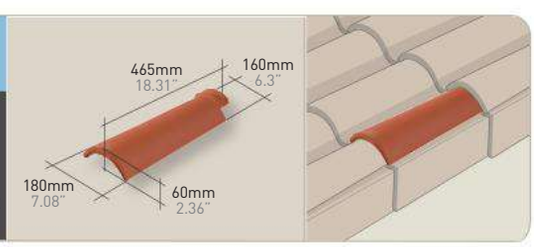
1,900 gr
4.2 lbs
4 pcs/lm
1.2 pcs/lft



Half large Mixed "S" tile

Q16

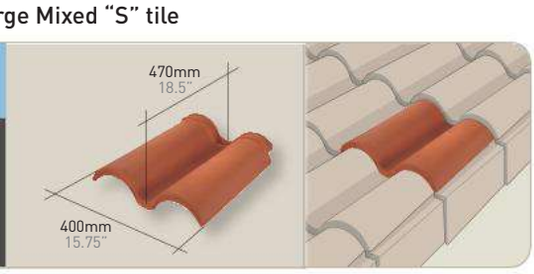
2,400 gr
5.29 lbs
2.5 pcs/lm
0.75 pcs/lft



Double large Mixed "S" tile

Q33

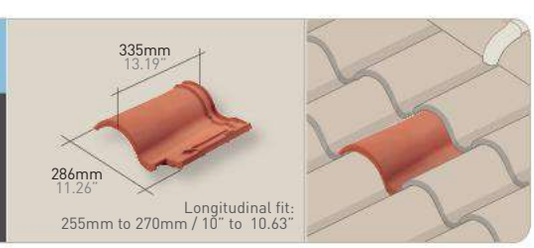
6,000 gr
13.23 lbs
2.5 pcs/lm
0.75 pcs/lft



2/3 Large Mixed "S" tile

Q56

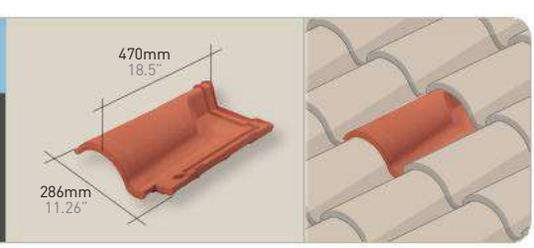
2,800 gr
6.17 lbs



Large Mixed "S" ventilation tile

Q19

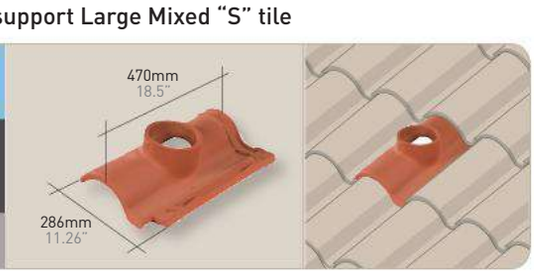
4,000 gr
8.81 lbs



Chimney support Large Mixed "S" tile

Q24

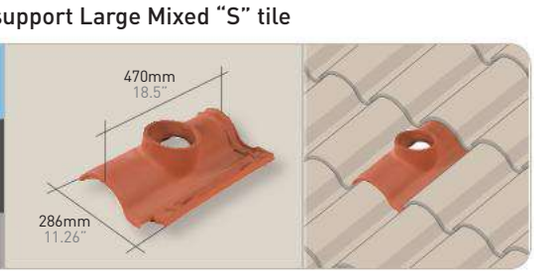
4,850 gr
10.7 lbs
Ø 11.5 cm / 4.53"
With Q26



Chimney support Large Mixed "S" tile

Q49

4,650 gr
10.25 lbs
Ø 13 cm / 5.12"
With Q53

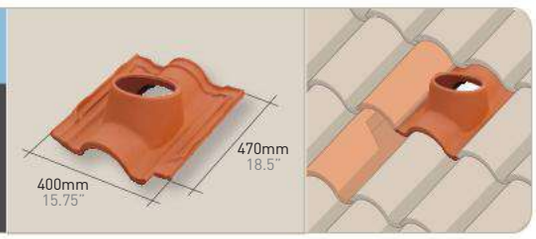


On their products, La Escandella has right to make changes in dimensions, fittings, weight & units per pallet, without previous notice. For more information, please contact your Sales Representative or our Customer Care Service.

Chimney support Large Mixed "S" tile

Q47

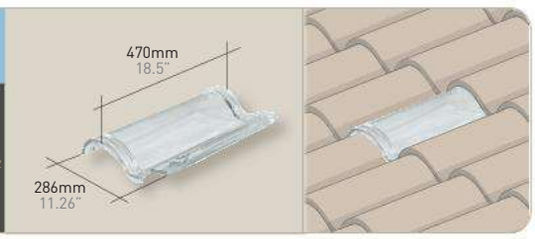
6,500 gr
14.33 lbs
Ø 16 cm / 6.3"



Large Mixed "S" glass tile / skylight

Q39

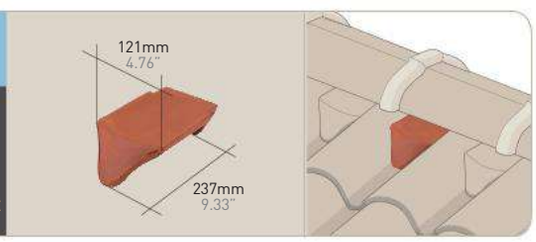
3,800 gr
8.38 lbs
10.5 pcs/m²



Wedge

Q08

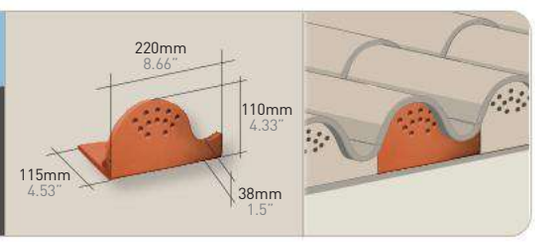
800 gr
1.76 lbs
4.5 pcs/lm
1.35 pcs/lftt



Bird stopper

Q72

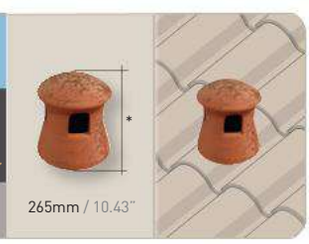
800 gr
1.76 lbs
4.5 pcs/lm
1.35 pcs/lftt



Chimney / pipe cover

Q26

2,760 gr
6.08 lbs
Ø 11.5 cm / 4.53"
With Q24



Chimney / pipe cover

Q53

2,750 gr
6.06 lbs
Ø 13 cm / 5.12"
With Q49



Chimney / pipe cover

Q50

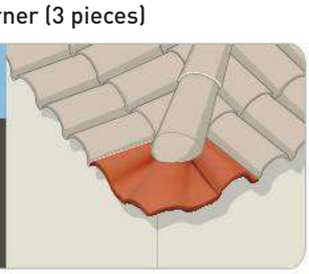
3,400 gr
7.49 lbs
Ø 13 -16 cm
5.12 - 6.3"
With Q47



Round corner (3 pieces)

Q51

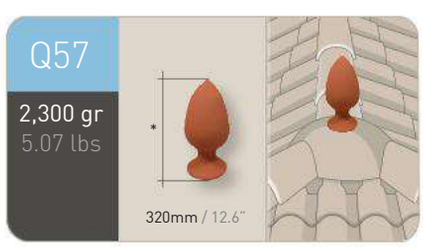
12,500 gr
27.55 lbs



Coronación bellota

Q57

2,300 gr
5.07 lbs



Small Piruli

Q28

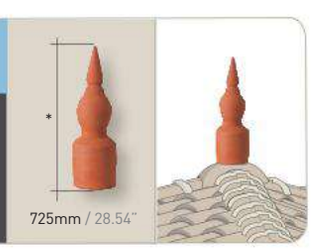
3,500 gr
7.71 lbs



Large Piruli

Q29

5,200 gr
11.46 lbs



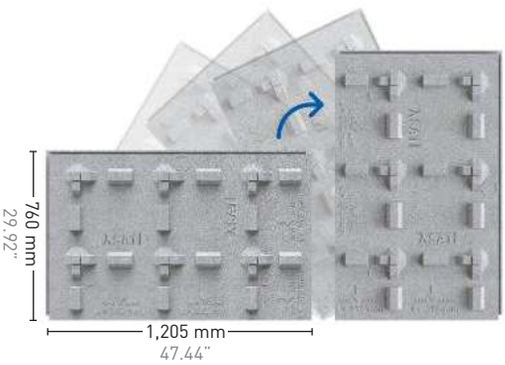


BUILDING SYSTEMS

λPROOF
Roofing Components

La Escandella's new installation and insulation systems that are specifically designed for pitched roofs with ceramic tiles. The EscandellaTherm and EscandellaSat systems combine the latest technology in insulation materials with a design to provide an an efficient and healthy solution for the roof.





ESCANDELLλSAT

VERSATILE INSULATION PANEL
FOR DIFFERENT ROOF TILE MODELS.

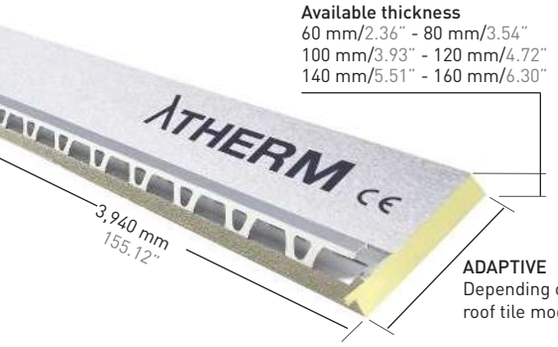
Suitable to install any roof tile with a batten spacing of 37 or 39.5 cm (14.6"/15.6").

λ = 0.031 W/mk

GUARANTEE 15 YEARS BUILDING SYSTEMS

100% Neopor®

MORE INFO ON THE WEBSITE



Available thickness
60 mm/2.36" - 80 mm/3.54"
100 mm/3.93" - 120 mm/4.72"
140 mm/5.51" - 160 mm/6.30"

ADAPTIVE
Depending on the roof tile model



ESCANDELLλTHERM

VENTILATED ROOF IN 1 PRODUCT.

Self-supporting roof structure - Vapour barrier - Low transmittance thermal inslation
Under-roof waterproofing - Primary batten to create ventilation - Counter battens

λ = 0.022 W/mk

GUARANTEE 15 YEARS BUILDING SYSTEMS

TÜV SÜD

TECHNICAL INFORMATION

SLOPES / PITCHES

The minimum pitch standard recommendations should always be followed (see values in the referral table). On all low pitches and pitches below the standard recommended minimums, or in regions where ice dams may occur, a waterproof underlayment and double battens 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 capillarity action, wind-driven rain, and runoff or ice damming. Because of this possibility, the underlayment is critical to the success of the roof.

	WITHOUT UNDERLAYMENT				WITH UNDERLAYMENT			
	ZONE 1	ZONE 2	ZONE 3		ZONE 1	ZONE 2	ZONE 3	
Protected	25% / 14º	27% / 15,5º	30% / 17º	**Hip < 6,5 m**	19% / 10º	21% / 11º	23% / 12º	**Protected**
Normal	25% / 14º	27% / 15,5º	30% / 17º		21% / 11º	23% / 12º	26% / 14º	**Normal**
Exposed	33% / 18,5º	37% / 20,5º	40% / 22º		28% / 15º	32% / 17º	34% / 18,8º	**Exposed**
Protected	28% / 16º	32% / 18º	36% / 20º	**Hip 6,5 m - 9,5 m**	22% / 12º	24% / 13º	26% / 14º	**Protected**
Normal	28% / 16º	32% / 18º	36% / 20º		24% / 13º	27% / 15º	31% / 17,5º	**Normal**
Exposed	35% / 19,5º	39% / 21,5º	43% / 23,5º		30% / 17º	33% / 18º	37% / 20,5º	**Exposed**
Protected	32% / 18º	35% / 19,5º	40% / 22º	**Hip 9,5 m - 12 m**	23% / 12º	26% / 14º	30% / 17º	**Protected**
Normal	32% / 18º	35% / 19,5º	40% / 22º		27% / 15º	30% / 17º	34% / 18,8º	**Normal**
Exposed	42% / 23º	45% / 24,5º	50% / 26,5º		36% / 19º	39% / 21º	43% / 23,5º	**Exposed**

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

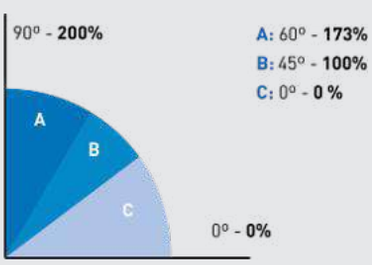
NORMAL LOCATIONS:: Flat area, plateau with minimal elevation changes.

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.

NOTE: For hips MORE than 12m long (39.4'), a waterproof underlayment on the entire roof deck MUST be applied and the ventilation underneath must be reinforced (check with the manufacturer).

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 roof tile should be securely fastened by nailed, screwed, clipped...

B: Roof tiles will be fixed at least once every two or three, depending on the exposure of the roof and the height of the building.

C: The roof tiles shall be fixed at least in the proportion of one in five from a horizontal line, initiating fixation by rows alternately and regularly on the battens. **In case of high wind exposure, all roof tiles must be fixed.**

VENTILATION

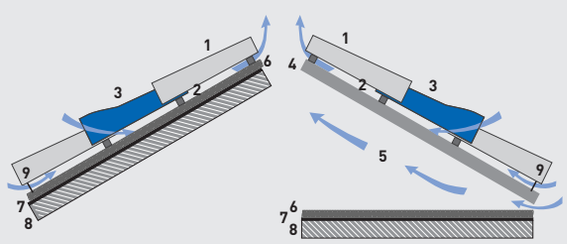
Ventilation is one of key elements to assure a good hygrothermal behavior of the roof and preservation of the roof structure. The key to a good and well preserved roof is a good ventilated roof. Proper installation of Ventilation tiles combined with ventilated roof can result in energy savings, in a 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 for every 7 m² (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.



NON-VENTILATED ROOF

1. Roof tile
2. Micro-ventilation void
3. Ventilation roof tile
4. Rafter
5. Attic

VENTILATED ROOF

6. Heat insulation underlayment
7. Waterproof underlayment material
8. Frame
9. Eaves ventilation comb / bird stop

The minimum requirement for any roof is compliance with local building regulations, but to apply La Escandella 35-year guarantee it is essential to respect the manufacturer's usage guidelines, and in particular those for dry installation and ventilation under the tiles. 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.

GUARANTEE 35 YEARS La Escandella



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 August 2026, replaces the existing ones.