



MIXED "S" Large



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





Warmth and delight in our most Mediterranean roof tile

Double curvature

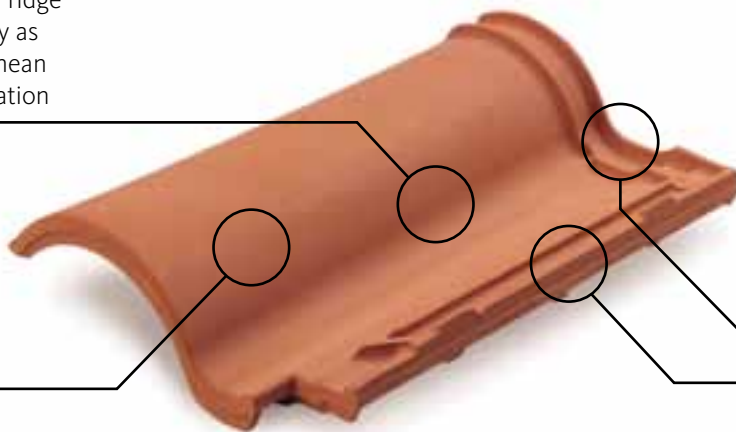
Its double curvature, eave and ridge joints design and functionality as Arab roofs looking. Mediterranean aesthetics with the easiest fixation

More breakage resistance

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

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)



Double interlocking

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

Easy and quick fixation

Very light and easy-to-use roof tile (10,5 pcs/sqm) that allows both lateral and longitudinal tolerances, therefore achieving great stability



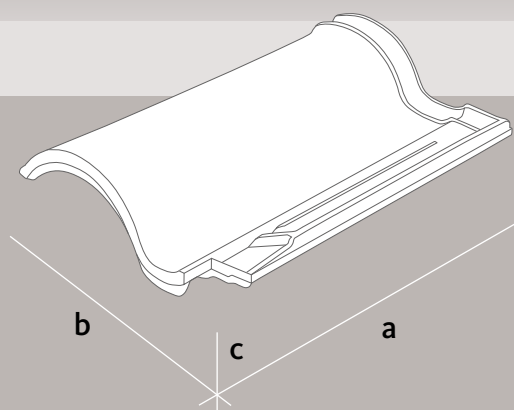
LARGE MIXED "S"



PAJA



FLAMED PAJA



	Application Standard	Requirements	MIXED S
Flexural Strength test	EN 538	Resistance > 1200N	Above
Water Impermeability	EN 539-1	Complies with level 1 (Method 1)	Above
Frost Resistance	EN 539-2	Level 3 Resistance (Method E - 150 cycles)	Above
Geometric Characteristics	EN 1024	Flatness ≤ 1,5% Straightness ≤ 1,5%	Complies Complies



EN 539-2

Test of frost resistance



EN 539-1

Impermeability test



EN 538

Flexural strength test



EN 1024

Geometric characteristics

GUARANTEE
35
YEARS

	RED	WHITE
Dimensions	a: 470 mm / 18.5" b: 286 mm / 11.26" c: 75 mm / 2.95"	a: 471 mm / 18.54" b: 290 mm / 11.42" c: 75 mm / 2.95"
Pieces per m²/sq	10,5 / 97	10,5 / 97
Weight piece	3.850 gr / 8.49 lbs	3.800 gr / 8.38 lbs
Longitudinal fit*	400 mm (±5 mm) 15.75" (±0.2")	400 mm (±5 mm) 15.75" (±0.2 mm)
Transversal fit*	230 mm (±2 mm) 9.05" (±0.08")	230 mm (±2 mm) 9.05" (±0.08")
Units per pallet	180 / 240	180 / 240

*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.



(Not valid for white clay)



ESR - 2727



(Not valid for white clay)



RED



FLAMED RED



JASPEE RED



MEDITERRANEA



GALIA





BURGUNDY



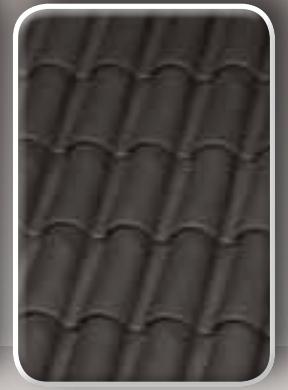
TOSSAL



MILENIUM

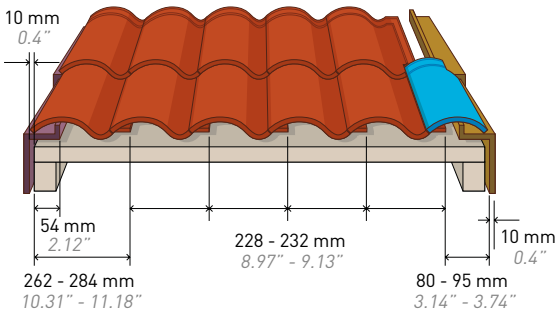


BROWN

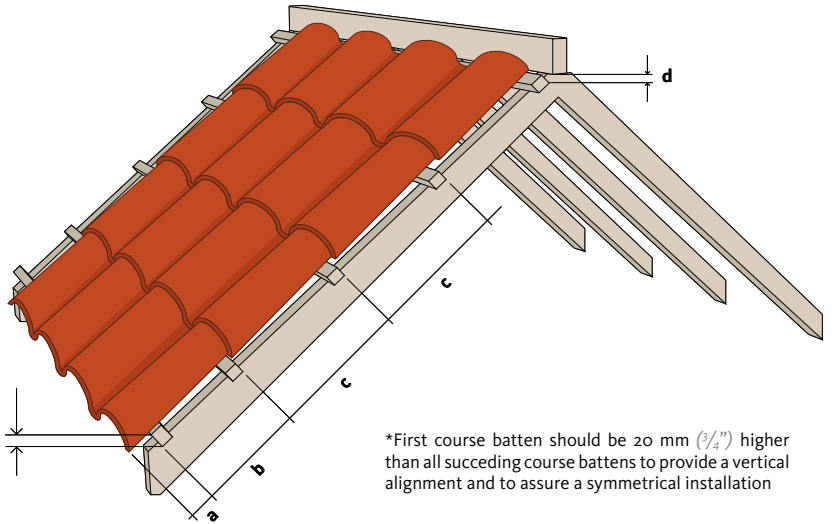
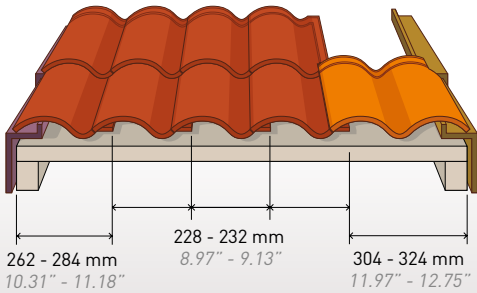


SLATE

Half large Mixed "S" roof tile laying



Double large Mixed "S" roof tile laying



- Large Mixed "S" roof tile
- Q10 Straight left side course
- Q11 Straight right side course
- Q16 Half large Mixed "S" roof tile
- Q33 Double large Mixed "S" roof tile

- a = 80 mm / 3.15"
- b = 360 mm / 14.17"
- c = 400 mm / 15 3/4"
- d = 10-30 mm / 0.39" - 1.18"
(Depending on the slope)

HISPANIA

MAIGMÓ

CARTAGO

LUCENTUM

AITANA



LAID METHOD

La Escandella interlocking “S” roof tile can be laid on a continuous frame or battens; from left to right in a straight or full bond pattern.

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 first 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**) (**fig.2**) or a Double Tile (**Q33**) (**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.
To avoid cutting the field tiles when reaching the ridge line, a 2/3 under ridge tile (**Q35**) can be used in the upper course and closed by using a Double 2/3 under ridge tile (**Q37**) (**fig.4**).

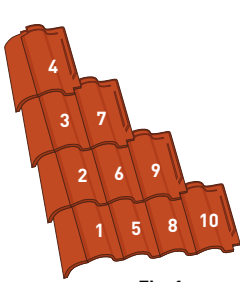


Fig. 1

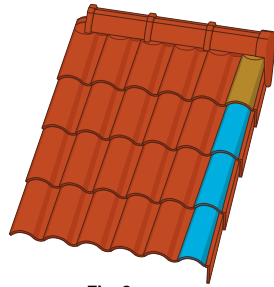


Fig. 2

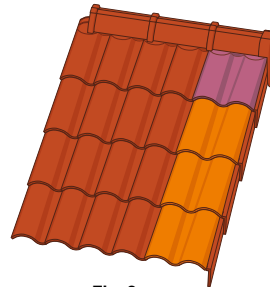


Fig. 3

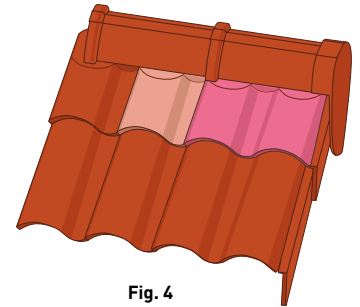


Fig. 4

INSTALLATION DETAILS

	<h3>RIDGE</h3> <ul style="list-style-type: none"> -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 stain-less ring screw nails or similar. -At the top course of the roof (horizontal terminating end) field tiles can be finished by using either Wedges (Qo8) or under ridge tiles (Q70 and Q35). 	
	<h3>HIP</h3> <ul style="list-style-type: none"> -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 self adhesive Alu-Roll (La Escandella Aluminum 	
	<h3>VALLEY</h3> <ul style="list-style-type: none"> -Both Valley and eave line chan-nel 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 (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 (or similar approved underlayment) which should be covered by the ridge tile. 	

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: 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.

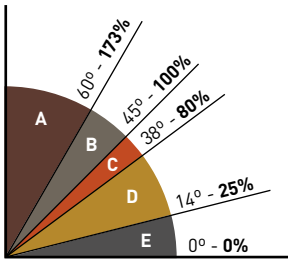
EXPOSED LOCATIONS: Places open to strong winds, coastal areas (up to 5 km / 3 miles from the shoreline), islands or narrow peninsulas, estuaries or closed bays, narrow valleys, isolated mountains, mountain passes and earthquake zones.

Hip < 6,5m < 21.32'	Hip 6,5m - 9,5m 21.32' - 31.16'	Hip 9,5m - 12m 31.16' - 39.37'
30% / 17°	30% / 17°	35% / 19.5°
30% / 17°	36% / 20°	40% / 22°
40% / 22°	43% / 23.5°	50% / 26.5°

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).

FASTENING METHODS

The manner in which roof tiles are installed makes them a highly effective water shedding assembly that affords years of service and protection. The effectiveness of a tile roof system as a weather resistant assembly however depends on the proper installation of all the tile roof components, and installing them properly is critical to the performance of the installed system.



- 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).

VENTILATION

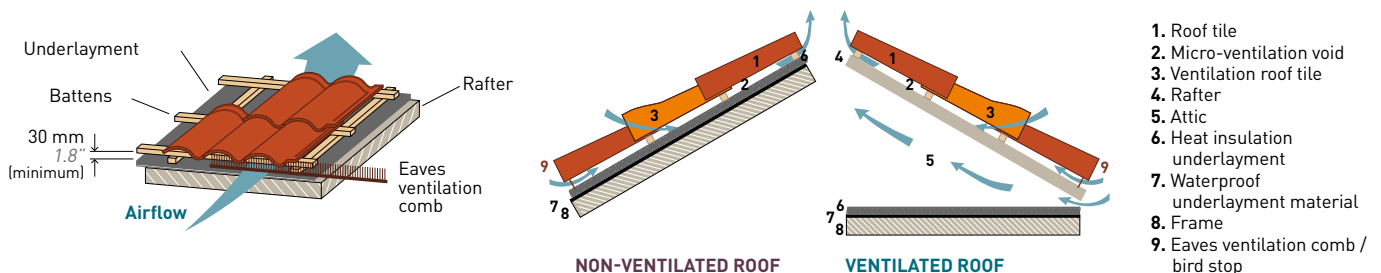
Ventilation is one of key elements to assure a good hygrothermal behavior of the roof and preservation of the roof structure. The key to a good and well preserved roof is a good ventilated roof. Proper installation of Ventilation tiles combined with ventilated roof can result in energy savings, in a 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 **Mixed ventilation tile (Q19)** 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.



Openings at the eaves and the ridge must allow for even distribution of ventilating air below the entire roof deck.

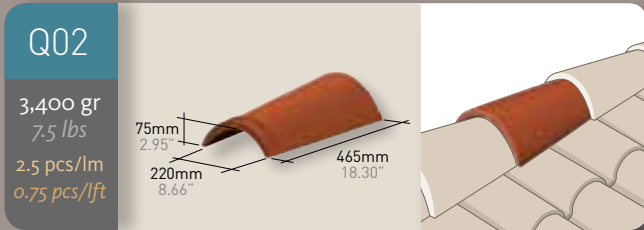
- Note 1:** Recommended underlayment installed over the sheathing are dependant on the roof pitch and local weather conditions.
- Note 2:** Underlayment materials must be covered with tile as soon as possible to prevent degradation from exposure.

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.

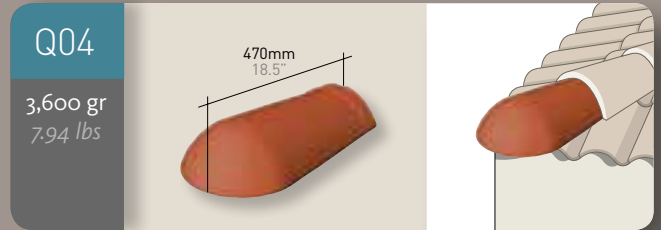
ACCESSORIES

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

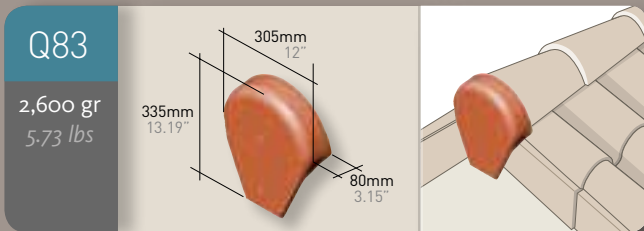
Round ridge / Hip



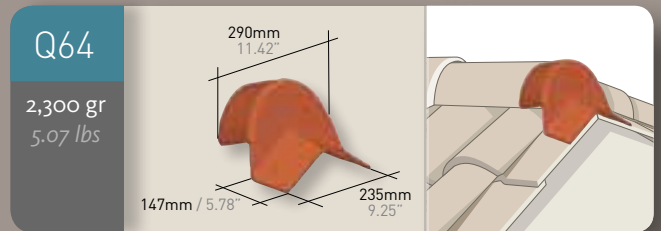
Round ridge end / Hip starter (with Q02)



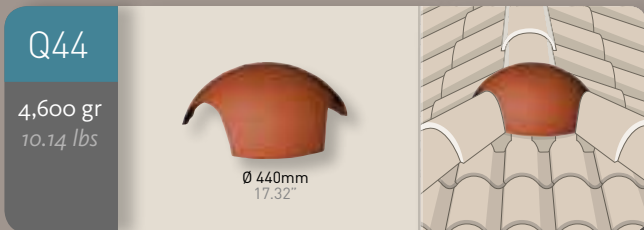
End cap round ridge (with Q02)



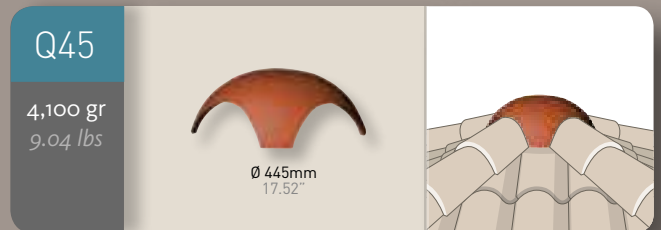
Bardelis end cap / gable end (with Q02)



Round 3 way ridge (with Q02)



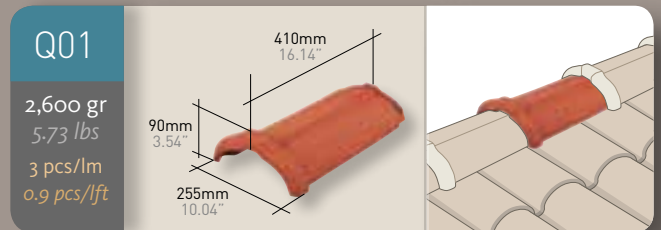
Round 4 way ridge (with Q02)



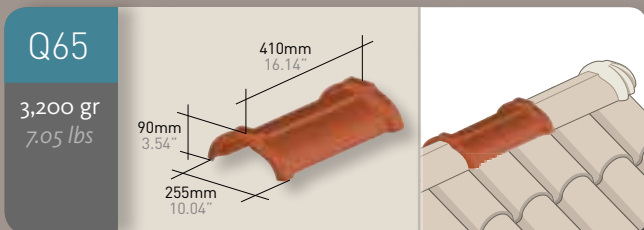
Round 3 way ridge female (with Q02)



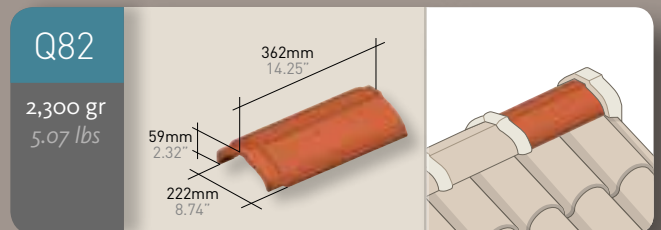
Ridge / hip



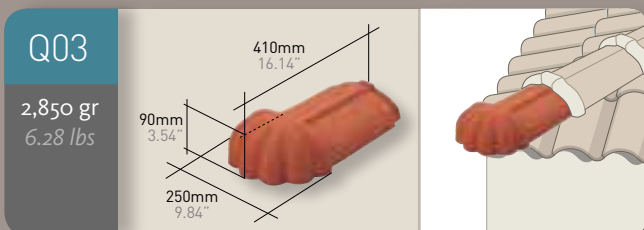
Two way female ridge tile



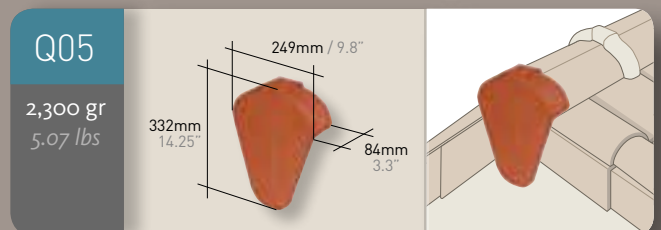
Two way male ridge tile



Ridge end / hip starter



End cap / straight gable end (with Q01)



Round end cap / gable end (with Q01)

Q06
1,700 gr
3.75 lbs

3 Way ridge (with Q01)

Q07
4,000 gr
8.82 lbs

3 Way ridge with slope (with Q01)

Q60
3,700 gr
8.16 lbs

3 Way ridge female (with Q01)

Q42
3,700 gr
8.16 lbs

4 Way ridge (with Q01)

Q30
4,650 gr
10.25 lbs

Universal side course / rake

Q09
3,800 gr
8.37 lbs
2.5 pcs/lm
0.75 pcs/lft

Straight left side course / rake

Q10
2,900 gr
6.4 lbs
2.5 pcs/lm
0.75 pcs/lft

Straight right side course / rake

Q11
2,900 gr
6.4 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
2,500 gr
5.51 lbs
2.5 pcs/lm
0.75 pcs/lft

Bardelis right side course / rake

Q63
2,750 gr
6.06 lbs
2.5 pcs/lm
0.75 pcs/lft

Under ridge tile

Q70
 4,200 gr
 9.26 lbs

286mm
11.26"

470mm
18.5"

Double under ridge tile

Q71
 6,100 gr
 13.45 lbs

97mm
3.82"

380mm
14.96"

470mm
18.5"

2/3 Under ridge tile

Q35
 3,000 g
 6.61 lbs

340mm
13.38"

286mm
11.26"

Longitudinal fit:
150mm to 195mm / 5.9" to 7.67"

2/3 Double under ridge tile

Q37
 5,900 gr
 13 lbs

343mm
13.5"

400mm
15.75"

Channel / pan curved eave tile

Q31
 2,400 gr
 5.3 lbs
 4 pcs/lm
 1.2 pcs/lft

500mm
19.68"

Ridge / cover curved eave tile

Q32
 2,500 gr
 5.51 lbs
 4 pcs/lm
 1.2 pcs/lft

500mm
19.68"

Ridge / cover eave with same slope

Q80
 2,300 gr
 5.07 lbs
 4 pcs/lm
 1.2 pcs/lft

454mm
17.87"

160mm
6.3"

180mm
7.08"

Channel / pan eave with same slope

Q81
 1,800 gr
 3.97 lbs
 4 pcs/lm
 1.2 pcs/lft

454mm
17.87"

195mm
7.68"

133mm
5.23"

Half large Mixed "S" tile

Q16
 2,400 gr
 5.3 lbs
 2.5 pcs/lm
 0.75 pcs/lft

470mm
18.5"

160mm
6.3"

180mm
7.08"

63mm
2.48"

Double large Mixed "S" tile

Q33
 6,200 gr
 14.66 lbs
 2.5 pcs/lm
 0.75 pcs/lft

470mm
18.5"

400mm
15.75"

2/3 Large Mixed "S" tile

Q56
 3,000 gr
 6.61 lbs

335mm
13.19"

290mm
11.42"

Longitudinal fit:
230mm to 275mm / 9" to 10.82"

NEW!

Large Mixed "S" ventilation tile

Q19
 4,000 gr
 8.81 lbs

470mm
18.5"

286mm
11.26"

Chimney support Large Mixed "S" tile (with Q26)

Q24
 4,850 gr
 10.7 lbs
 Ø 11.5 cm
 Ø 4.53"

Chimney support Large Mixed "S" tile (with Q53)

Q49
 4,200 gr
 9.26 lbs
 Ø 13 cm
 Ø 5.12"

Chimney support Large Mixed "S" tile (160mm / 6.3" chimney kit)

Q47
 6,500 gr
 14.33 lbs
 Ø 16 cm
 Ø 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
 750 gr
 1.65 lbs
 4.5 pcs/lm
 1.35 pcs/lftt

Chimney / pipe cover (with Q24)

Q26
 2,760 gr
 6.08 lbs
 Ø 11.5 cm
 Ø 4.53"

Chimney / pipe cover (with Q49)

Q53
 2,750 gr
 6.06 lbs
 Ø 13 cm
 Ø 5.12"

Chimney / pipe cover (with Q47)

Q50
 4,000 gr
 8.82 lbs
 Ø 13/16 cm
 Ø 5.12/6.3"

Chimney / lantern

Q61
 4,400 gr
 9.7 lbs
 Ø 11.5 cm
 Ø 4.53"

Round corner (11 pieces)

Q43
 11,400 gr
 25.13 lbs

Round corner (3 pieces)

Q51
 12,500 gr
 27.55 lbs

Coronación bellota

Q57
 2,300 gr
 5.07 lbs

Small Piruli

Q28
 2,900 gr
 6.4 lbs

Large Piruli

Q29
 5,200 gr
 11.46 lbs



La Escandella

www.laescandella.com

Ctra. Novelda, km. 2.5 · 03698 AGOST (Alicante) SPAIN

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

e-mail: laescandella@laescandella.com

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 Care Service.

This catalogue, printed in February 2014, replace the existing ones.