

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

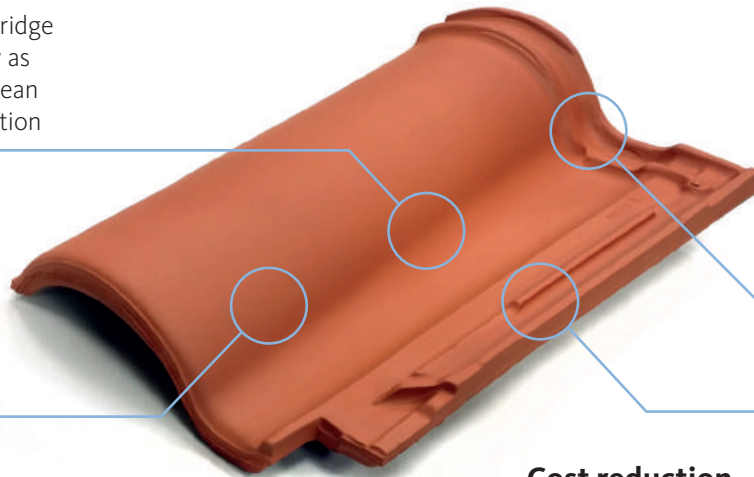
Its double curvature, eave and ridge joints design and functionality as Arab roofs looking. Mediterranean aesthetics with the easiest fixation

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

Cost reduction

Its large format (10.5 pcs/sqm for Large Mixed and 12.5 pcs/sqm for Small Mixed) and strapping every 5 units allow to reduce installation costs.



COLOURS & FINISHES



PAJA
(RED CLAY)



RED



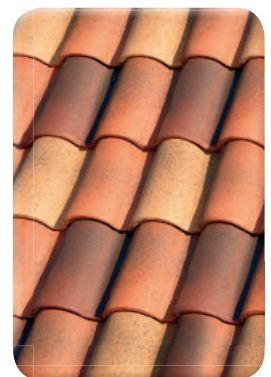
JASPEE RED



MEDITERRANEA



GALIA



TOSSAL



FLAMED PAJA
(RED CLAY)



MILENIUM



BOURGOGNE



BROWN



SLATE



HISPANIA



MAIGMO



CASTELL

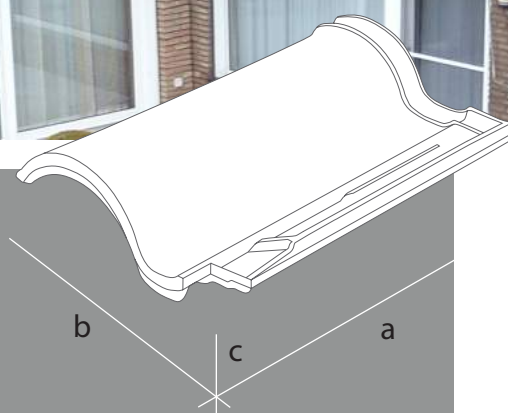


LUCENTUM



AITANA

The names of the colours shown in the photos, only represent the finishes of the models identified as Mixed "S"



LARGE MIXED "S"

Dimensions	a: 470 mm / 18.5" b: 286 mm / 11.26" c: 75 mm / 2.95"
Pieces per m²/sq	10,5 / 97
Weight piece	3.850 gr / 8.49 lbs
Longitudinal fit*	397 mm (+6;-5 mm) / 15.63" (+0.23";-0.19")
Transversal fit*	230 mm (±3 mm) / 9.05" (±0.12")
Units per pallet	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.

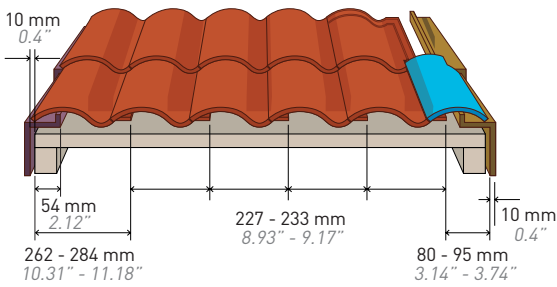


	Application Standard	Requirements	MIXED S
Flexural Strength test	EN 538	Resistance > 1200N	Above
Water Impermeability	EN 539-1	Complies with level 1	Above
Frost Resistance	EN 539-2	Complies 150 cycles	Above
Geometric Characteristics	EN 1024	Flatness ≤ 1,5% Straightness ≤ 1,5%	Complies Complies

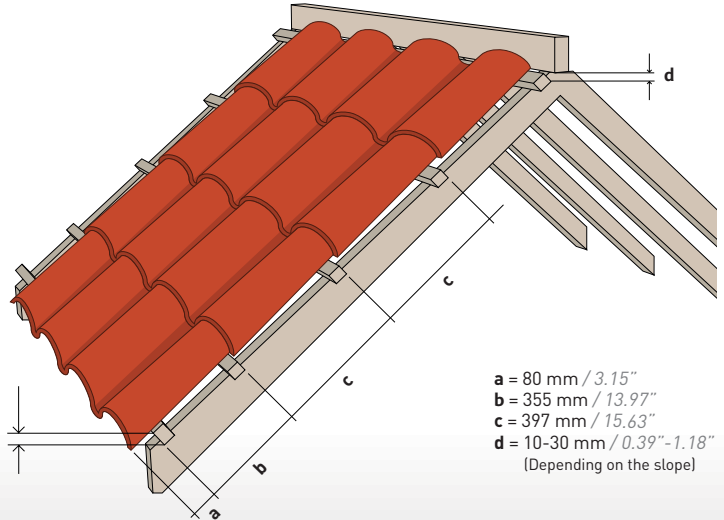




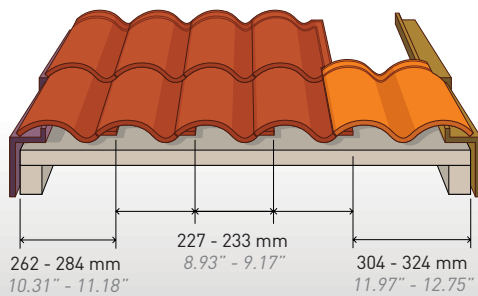
Half large Mixed "S" roof tile laying



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



Double large Mixed "S" roof tile laying



*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

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





LAI D 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 fist and succeeding courses of tiles from the eave to the ridge.

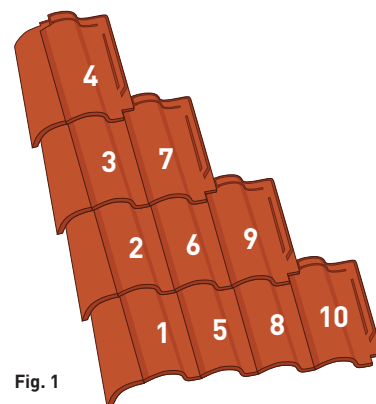


Fig. 1

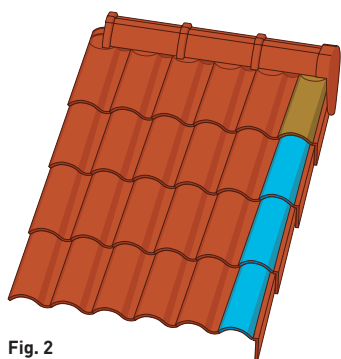


Fig. 2

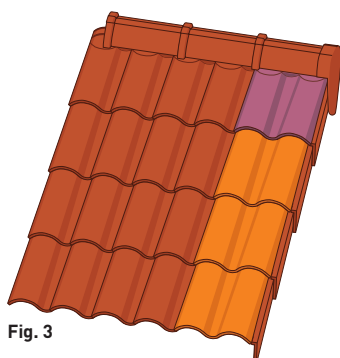
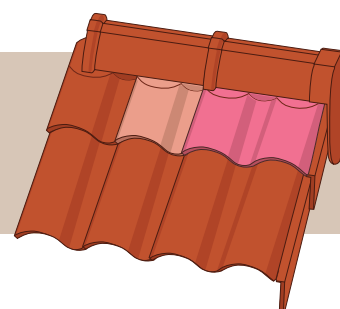


Fig. 3

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**).





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 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 (Q7o and Q35).

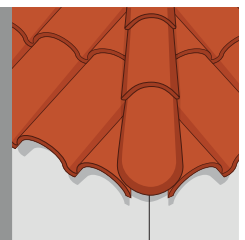
- All ridges and hips shall be covered with self adhesive Alu-Roll, La Escandella Aluminum roll for hip and ridges (CAMo1), or similar approved breathable waterproof underlayment. Underlayment should be secured over the ridge nailer with non-corrosive roofing nails.
- Apply ridge tiles with a minimum overlapping of 5 cm (2") through-out 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 mitter cut parallel to the hip line and secured.
- All ridges and hips shall be covered with self adhesive Alu-Roll, La Escandella Aluminum roll

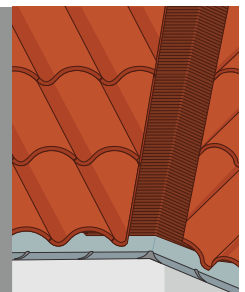
- for hip and ridges (CAMo1), or similar approved breathable waterproof underlayment.
- Air should be able to flow through the ridge and hip area. Be sure not to close these off with mortar or similar. Closing them off could result in cracks, peeling off,.. in freezing and thawing cycles.



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. Allu Valley Tape (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 Allu Valley Tape (CAM18), or similar approved underlay-ment, which should be covered by the

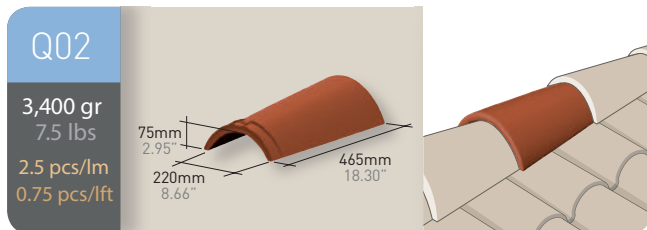
- ridge tile. Valley should be extended along the eaves to overhang the fascia board by 5cm (2") or over the gutter.
- Tiles should be laid parallel to the valley line, at same relative angle and should overhang the valley battens by at least 10 cm (4").
- Tiles at each side of the valley crease should 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 instal-lation is required to ensure water tightness in order to avoid cracks, peeling off, ...



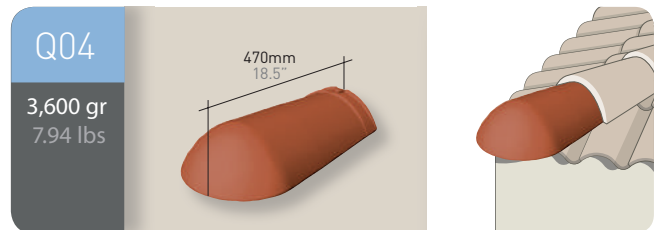
ACCESSORIES

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

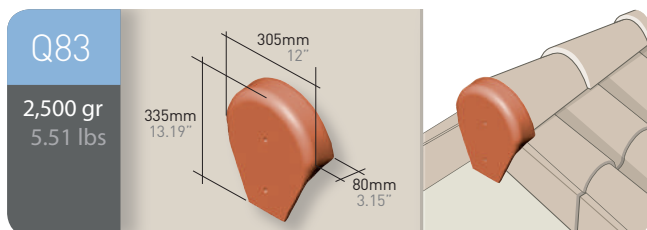
Round ridge / Hip



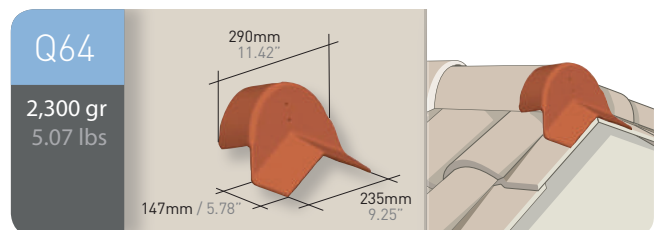
Round ridge end / Hip starter (with Q02)



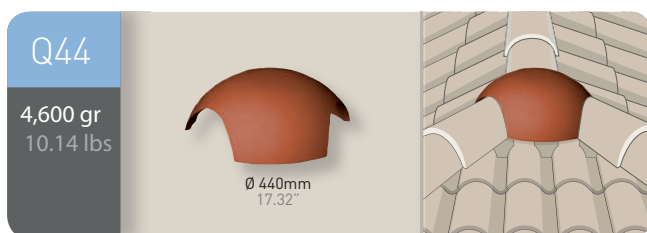
End cap round ridge (with Q02)



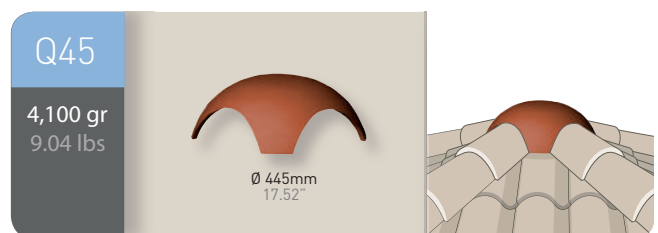
Bardelis end cap / gable end (with Q02)



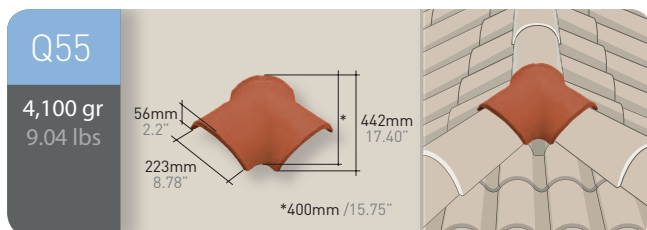
Round 3 way ridge (with Q02)



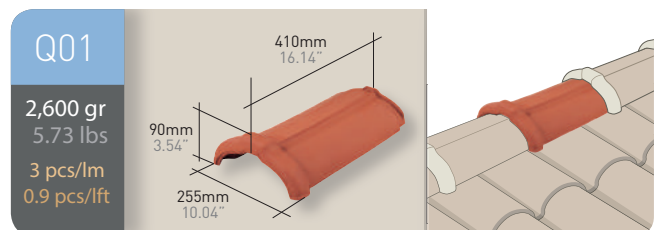
Round 4 way ridge (with Q02)



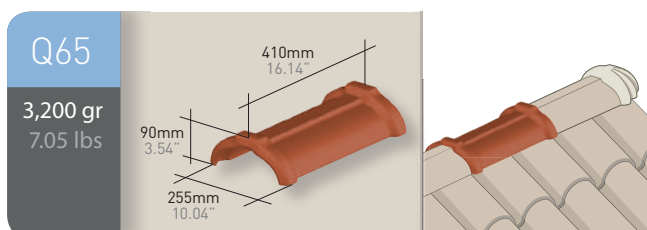
Round 3 way ridge female (with Q02)



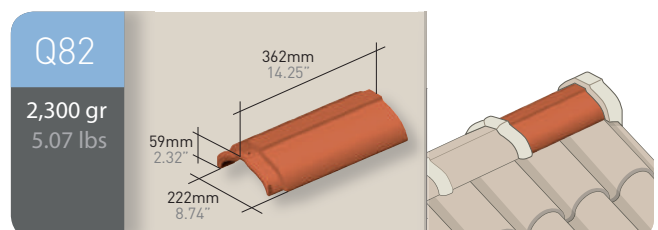
Ridge / hip



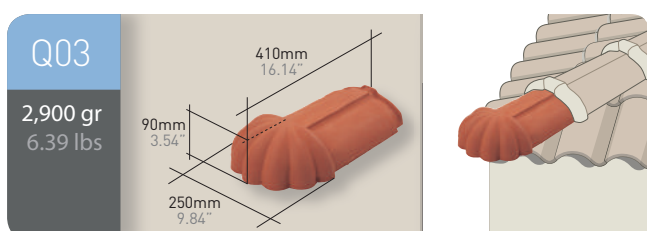
Two way female ridge tile



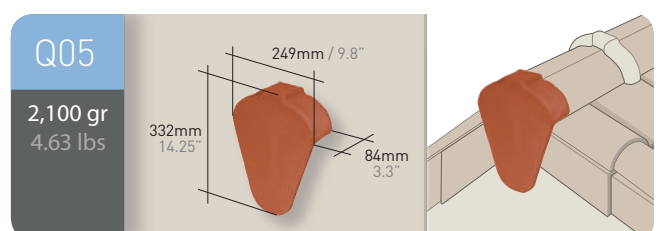
Two way male ridge tile



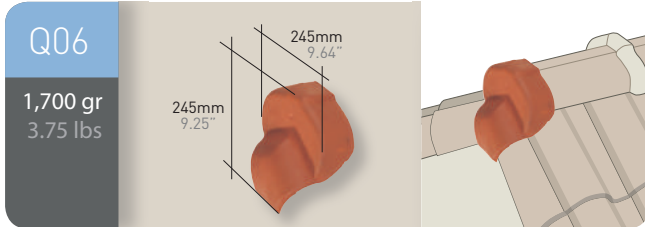
Ridge end / hip starter



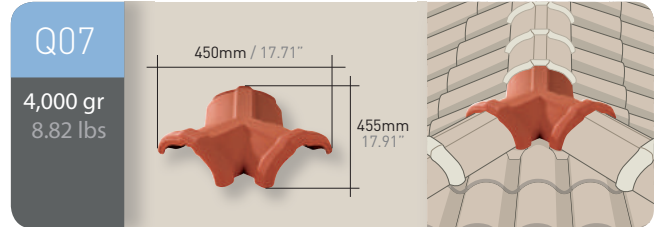
End cap / straight gable end (with Q01)



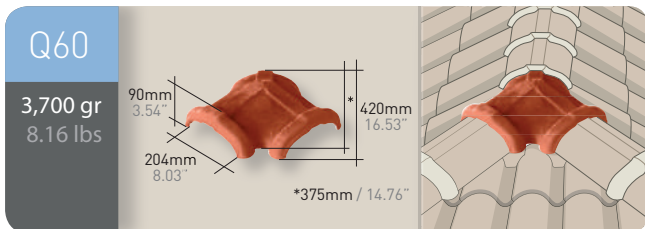
Round end cap / gable end (with Q01)



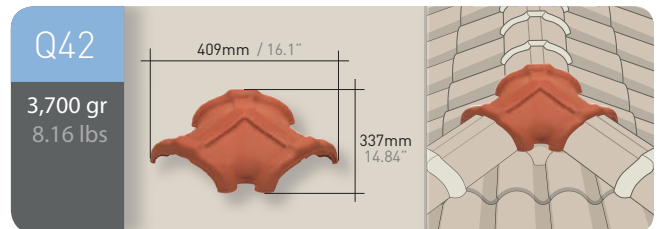
3 Way ridge (with Q01)



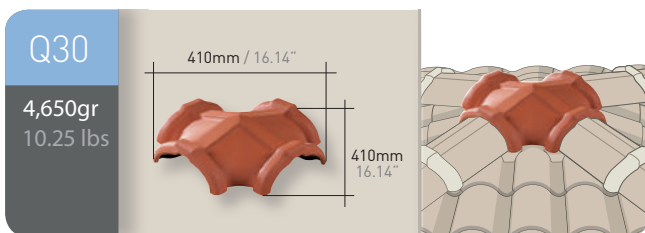
3 Way ridge with slope (with Q01)



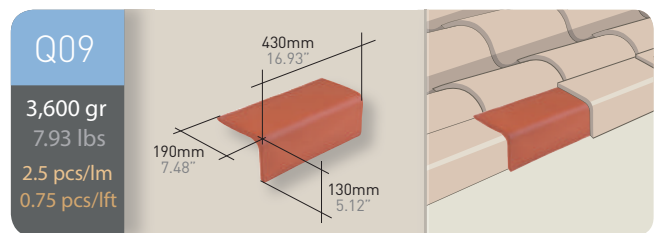
3 Way ridge female (with Q01)



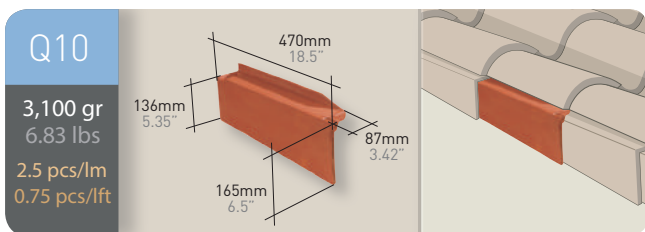
4 Way ridge (with Q01)



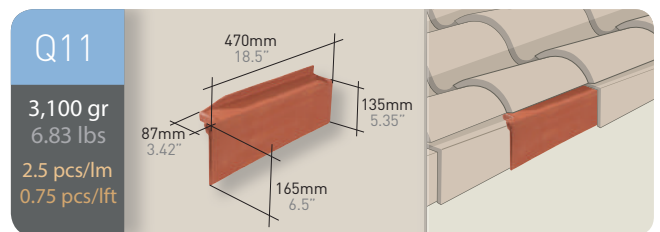
Universal side course / rake



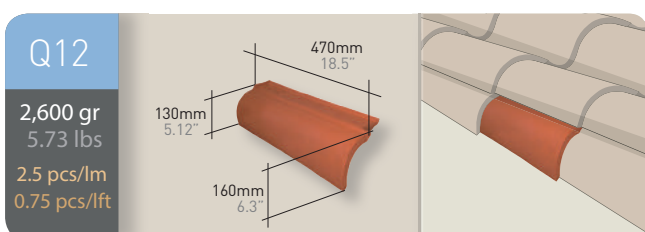
Straight left side course / rake



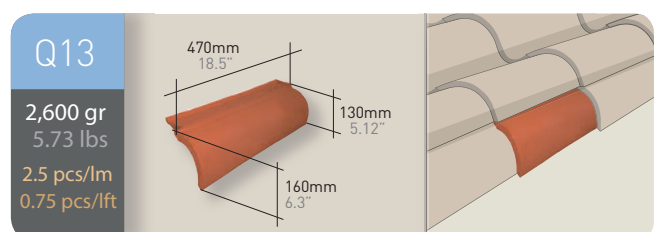
Straight right side course / rake



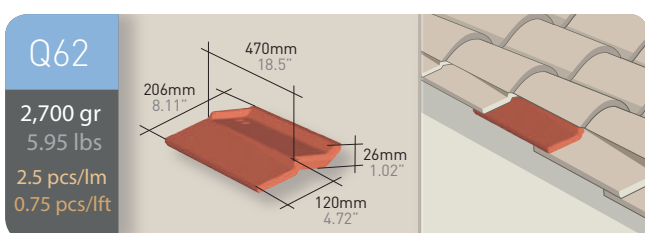
Round left side course / rake



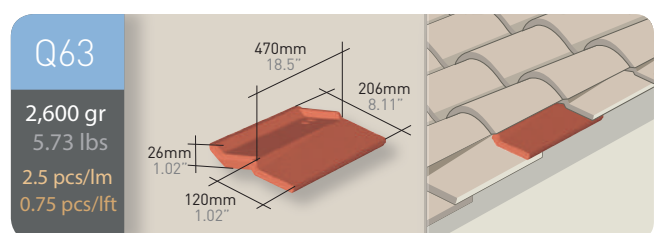
Round right side course / rake



Bardelis left side course / rake



Bardelis right side course / rake



ACCESSORIES

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

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

Channel / pan curved eave tile

Q31

2,400 gr
5.3 lbs

4 pcs/lm
1.2 pcs/lft

Ridge / cover curved eave tile

Q32

2,500 gr
5.51 lbs

4 pcs/lm
1.2 pcs/lft

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

1,800 gr
3.97 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

6,200 gr
14.66 lbs

2.5 pcs/lm
0.75 pcs/lft

2/3 Large Mixed "S" tile

Q56

2,800 gr
6.17 lbs

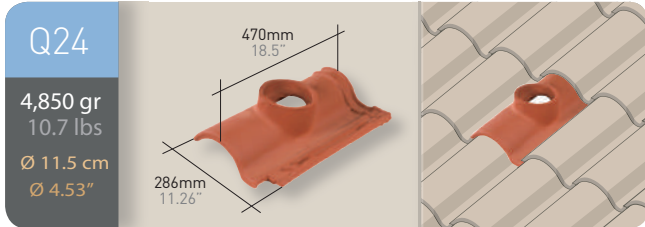
Large Mixed "S" ventilation tile

Q19

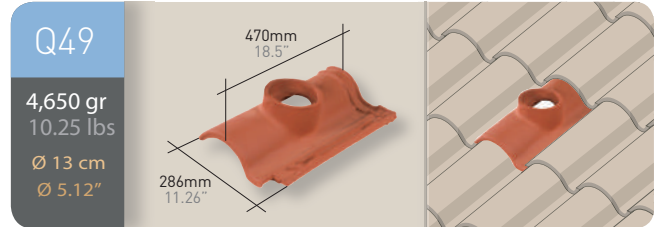
4,000 gr
8.81 lbs

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.

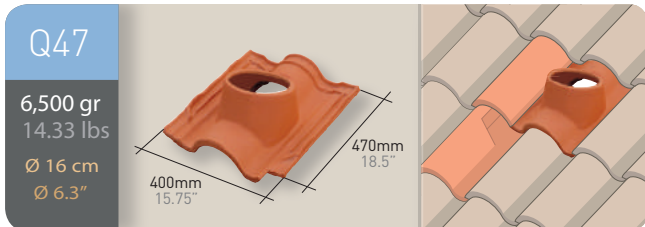
Chimney support Large Mixed "S" tile (with Q26)



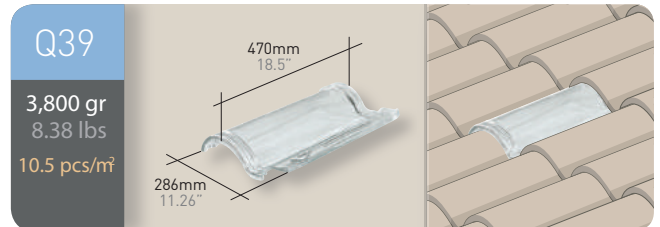
Chimney support Large Mixed "S" tile (with Q53)



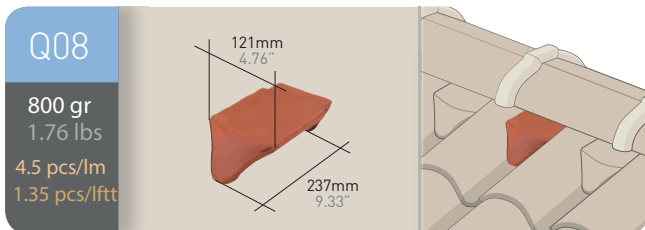
Chimney support Large Mixed "S" tile (160mm / 6.3" chimney kit)



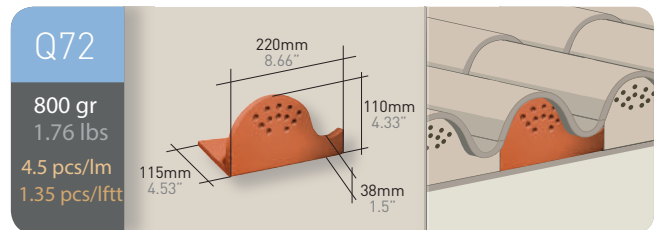
Large Mixed "S" glass tile / skylight



Wedge



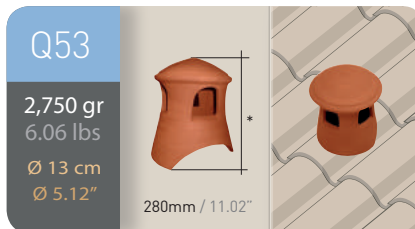
Bird stopper



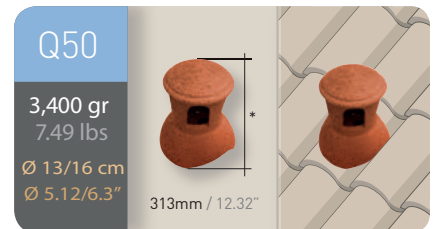
Chimney / pipe cover (with Q24)



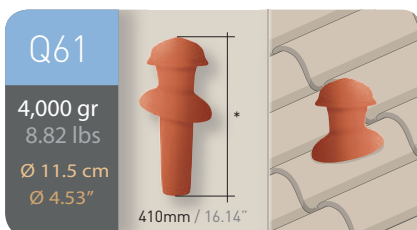
Chimney / pipe cover (with Q49)



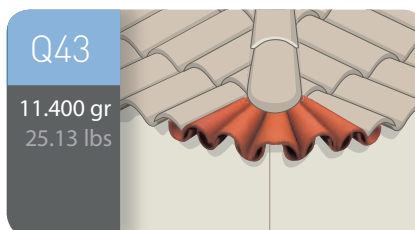
Chimney / pipe cover (with Q47)



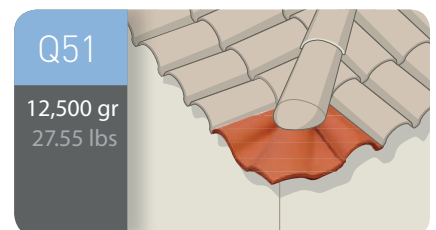
Chimney / lantern



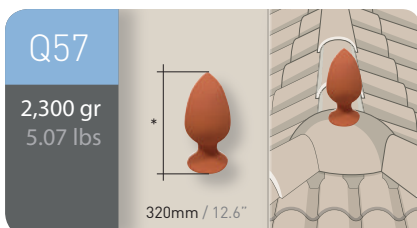
Round corner (11 pieces)



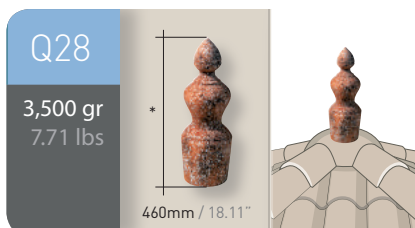
Round corner (3 pieces)



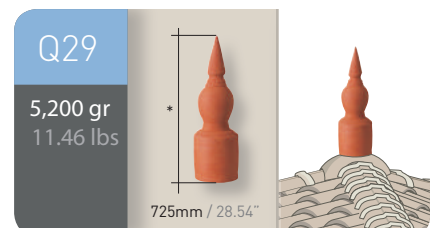
Acorn



Small Piruli



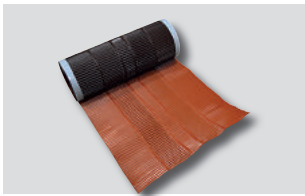
Large Piruli



ROOFING COMPONENTS

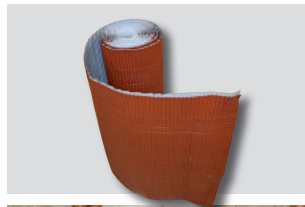
La Escandella offers a wide range of non-ceramic accessories which help finish off any type of roof. From waterproofing to ventilation, fixing and batten installing, safety implementation and multiple profiles can be found here. (Ask for wider range in last Price List).

CAM01 / CAMF1
Alu-Roll With Micro Cut



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

CAM08 / CAMF8
Alu-Flex



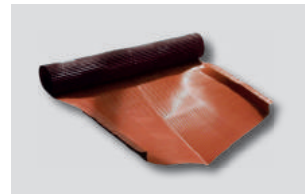
Width: Several sizes
Colours: Red, paja, brown, black.

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.

CAM27 / CAM70 / CAM07 / CAM10
Ridge Tile Hook



Colours: Red, brown, black.

CAM05 / CAM010 / CAM51
Ridge Batten Bracket



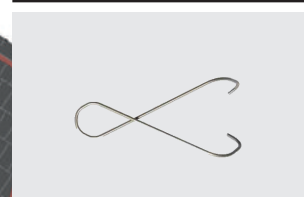
Dimensions: Several sizes.

CAM14
Eaves Ventilation Comb

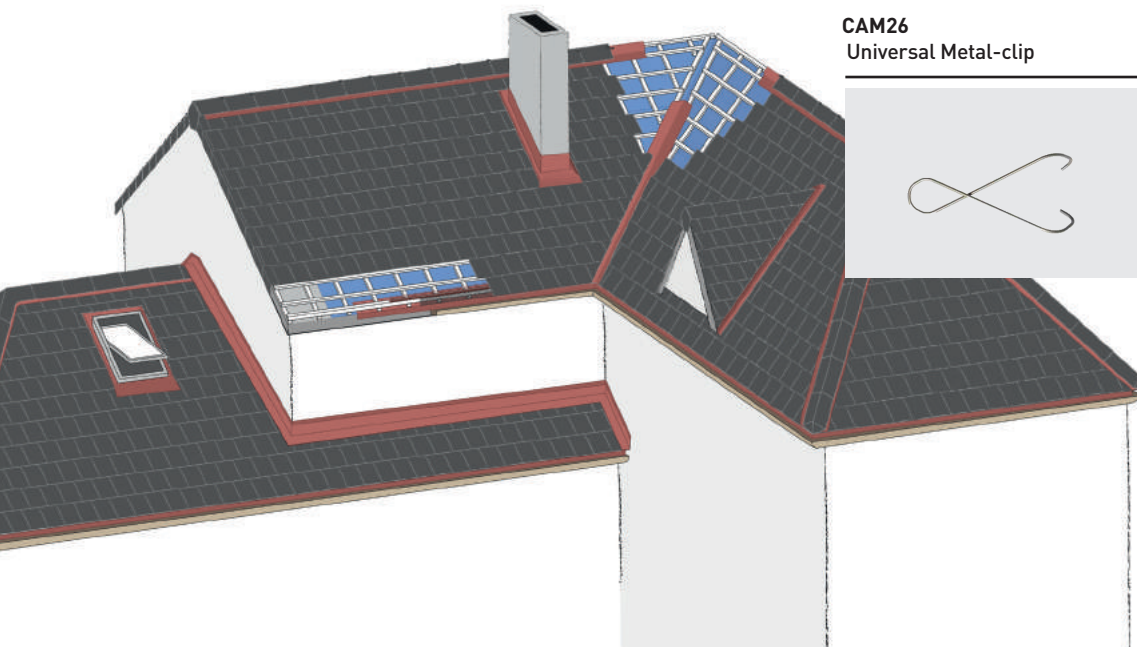


Dimensions: 6cm x 1m / 2.36" x 39.37"
Colours: Red, black.

CAM26
Universal Metal-clip



CAM62
Universal Eave hook-clip



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 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% / 14°	27% / 15,5°	30% / 17°	Hip < 6,5 m	19% / 10°	21% / 11°	23% / 12°	Protected
Normal	25% / 14°	27% / 15,5°	30% / 17°		21% / 11°	23% / 12°	26% / 14°	Normal
Exposed	33% / 18,5°	37% / 20,5°	40% / 22°		28% / 15°	32% / 17°	34% / 18,8°	Exposed
Protected	28% / 16°	32% / 18°	36% / 20°	Hip 6,5 m - 9,5 m	22% / 12°	24% / 13°	26% / 14°	Protected
Normal	28% / 16°	32% / 18°	36% / 20°		24% / 13°	27% / 15°	31% / 17,5°	Normal
Exposed	35% / 19,5°	39% / 21,5°	43% / 23,5°		30% / 17°	33% / 18°	42% / 22°	Exposed
Protected	32% / 18°	35% / 19,5°	40% / 22°	Hip 9,5 m - 12 m	23% / 12°	26% / 14°	30% / 17°	Protected
Normal	32% / 18°	35% / 19,5°	40% / 22°		27% / 15°	30% / 17°	34% / 18,8°	Normal
Exposed	42% / 23°	45% / 24,5°	50% / 26,5°		36% / 19°	39% / 21°	43% / 23,5°	Exposed

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].

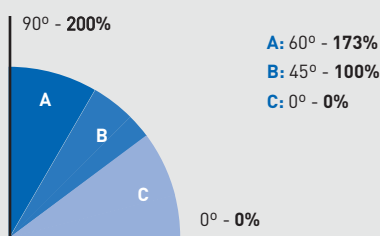
PROTECTED LOCATIONS: hollow area which is surrounded by hills that protect the hollow from the winds in all directions..

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 rooftile should be securely fastened by nailed, screwed, clipped,...

B: Rooftiles 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 rooftiles 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 rooftiles must be fixed.

VENTILATION

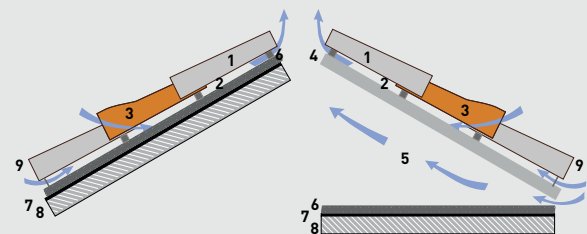
Ventilation is one of key elements to assure a good hygrothermal behavior of the roof and preservation of the roof structure. The key to a good and well preserved roof is a good ventilated roof. Proper installation of Ventilation tiles combined with ventilated roof can result in energy savings, in a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



NON-VENTILATED ROOF

VENTILATED ROOF

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

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

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.



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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 October 2019, replaces the existing ones.