



VISUM

3



La Escandella



VISUM3

One tile creates the visual effect of three

The innovative design allows lower installation costs and achieves with one tile a triple tile look



Test of frost resistance

Impermeability test

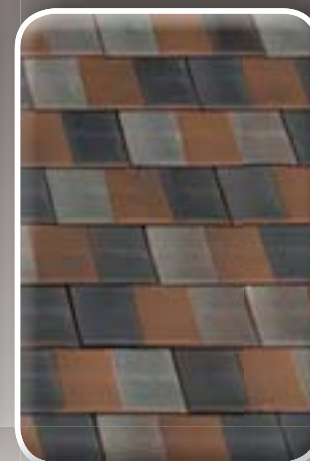
Flexural strength test

Geometric characteristics



BROWN

IDELLA GREY



| | Application Standard | Requirements | VISUM3 roof tile |
|----------------------------------|----------------------|--|----------------------|
| 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 | Method E150 cycles | Above |
| Geometric Characteristics | EN 1024 | Flatness ≤ 1,5% Straightness ≤ 1,5% | Complies Complies |



Cost reduction

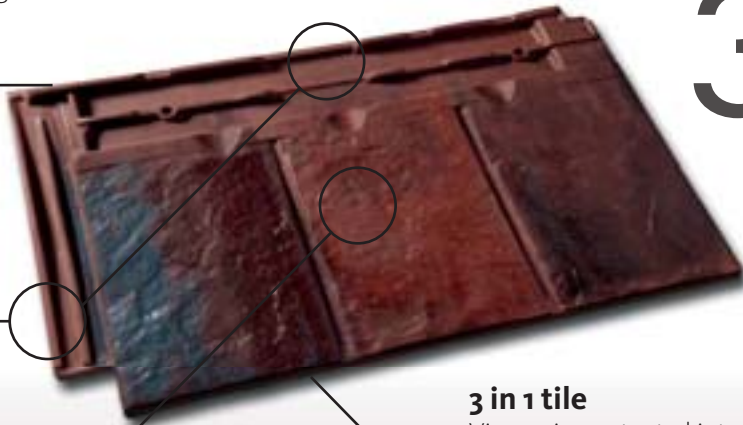
Its large format (11.5 pcs/m²) and packaging on pallets of 210 and 280 units, reduces installation cost.

Double interlocking

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

Wide range of colors

Its triple exclusive decoration system offers a broader range in tones and hues, so no two tiles are alike



3 in 1 tile

Visum3 is a patented interlocking tile with an innovative triple cambered design that gives the appearance of three plain tiles

GUARANTEE
35
YEARS

OLD ENGLISH

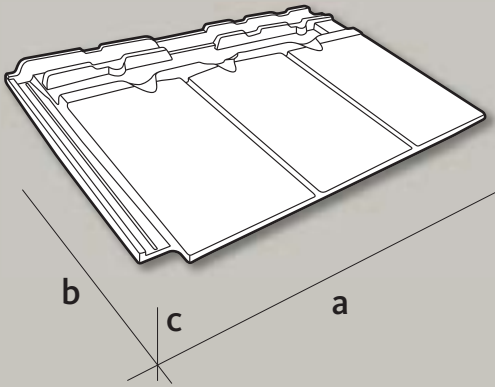
RUSSET

VERMONT GREY

SLATE



VISUM3



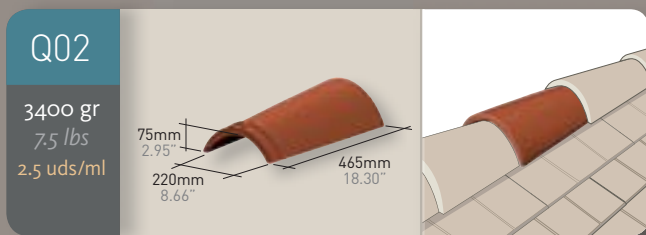
| | |
|---------------------------------|--|
| Dimensions* | a: 480 mm; b: 280 mm; c: 35 mm a: 18.9"; b: 11"; c: 1.38" |
| Pieces per m ² - sq. | 11.5 - 106.7 |
| Weight piece | 3,850 gr / 85.6 lbs |
| Longitudinal fit ** | 187 mm (± 7 mm) / 7.36" (± 0.27") |
| Transversal fit ** | 436 mm (± 1 mm) / 17.16" (± 0.04") |
| Units per pallet | 210 / 280 |
| Laying method | Broken 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.

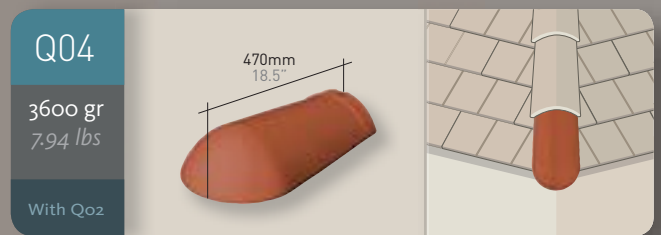
ACCESSORIES

La Escandella offers a complete line of Visum3 roof tile accessories, available in any standard color, to customize your roof.

Round ridge / Hip



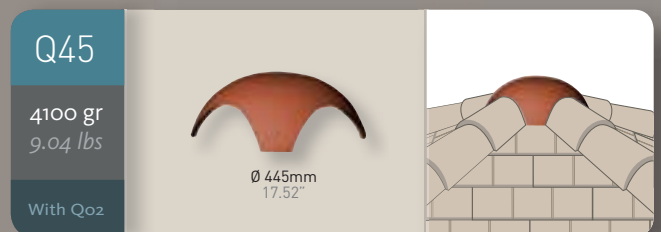
Round ridge end / Hip starter



Round 3 way ridge



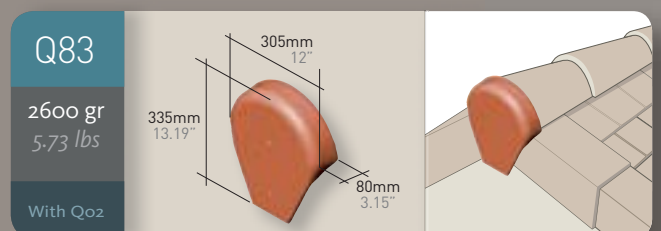
Round 4 way ridge



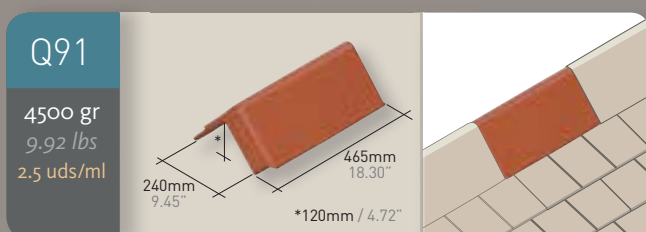
Round 3 way ridge female



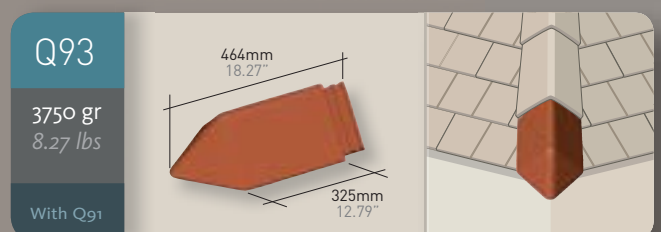
End cap round ridge



Pyramid ridge-side course / Rake



Pyramid end ridge





LAI D METHOD

Visum3 roof tile is laid on a discontinuous frame or battens, which will be fixed by building a batten counter batten deck or by fixing them directly to the frame.

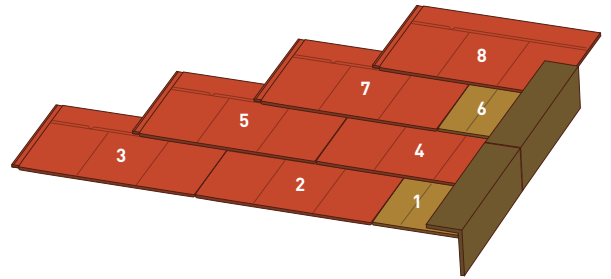
The laying of Visum3 roof tile is carried out by broken bond (also referred as cross bond) as follows:

1. The Starter course will begin with a Half Visum3 Tile (Q95).
2. Then continue with full tiles Visum3 all the course.
3. The second course will start with a full tile and it will be laid to provide the proper vertical exposure.

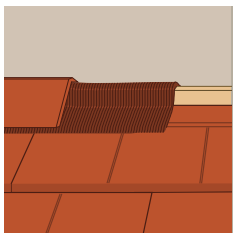
This exposure is continued through each successive course.

Finally we will use the Pyramid Ridge Tile (Q91) to lay all the Side-courses.

See Figure for sequence of installation.

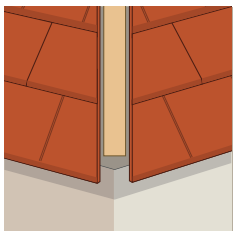
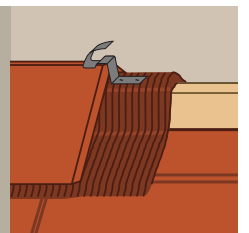


INSTALLATION DETAILS



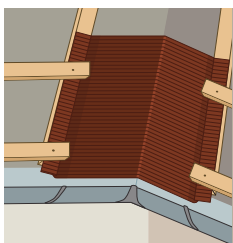
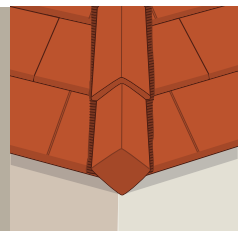
RIDGE

- Apply "La Escandella Alu-Roll for ridges and hips" (or similar) along the centre line of the ridge batten and fasten to the ridge nailer.
- Fix special ridge tiles with a minimum overlapping of 5 cm (1.97") on top of the tiles, placing them in opposite direction of the blowing winds.



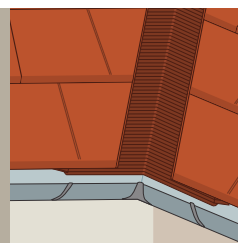
HIP

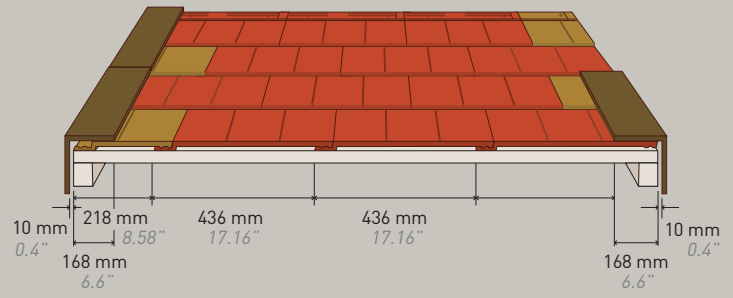
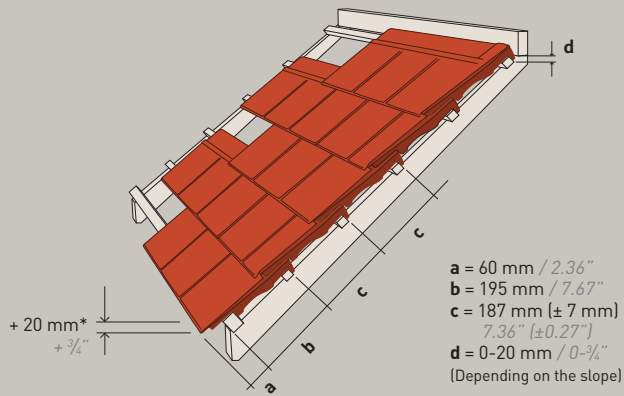
- Cut the general tiles closely to the hip timber and at the same relative angle.
- Fix "La Escandella Alu-Roll for ridges and hips" and special pieces for hip as above mentioned for ridges.



VALLEY

- Install valley battens on each side of the valley crease. Apply "La Escandella" Alu-roll Valley (or similar) over the valley battens. Alu-roll must overlap the ridgeline and should be extended along the eaves to finish at least, as per minimum building codes requirements, above the outside wall.
- At valleys, straight cut field tiles to allow a minimum 15 cm (6") open channel. Secure cut field tiles to the horizontal battens.





*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

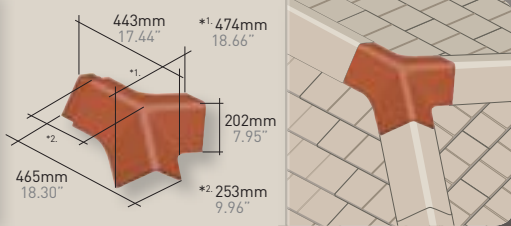
- Visum3 tile
- Q95 Visum3 Half roof tile
- Q91 Pyramid ridge-side course / rake

Pyramid triple ridge

Q94

5800 gr
12.78 lbs

With Q91

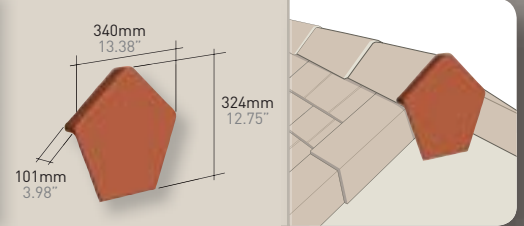


Pyramid end cap

Q92

2500 gr
5.51 lbs

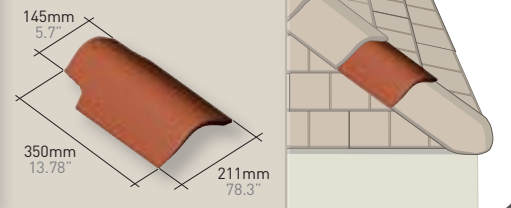
With Q91



Visum3 bonnet hip

Q105

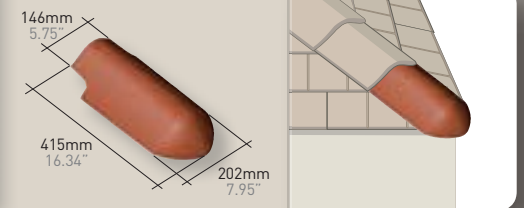
2300 gr
5.07 lbs
5 uds/ml



Visum3 end bonnet hip

Q106

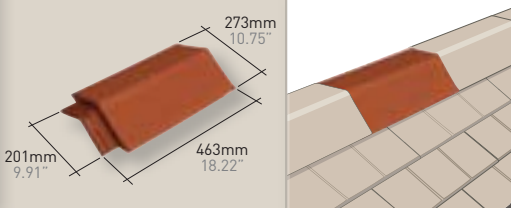
2400 gr
5.3 lbs



Ática Ridge 120°

Q90

3600 gr
7.93 lbs
2.5 uds/ml

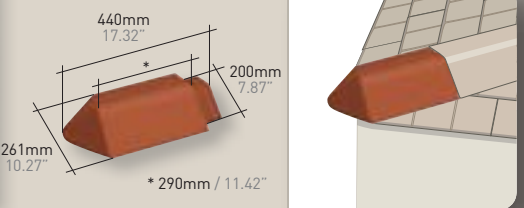


Atica end ridge 120°

Q109

2900 gr
6.4 lbs

With Q90

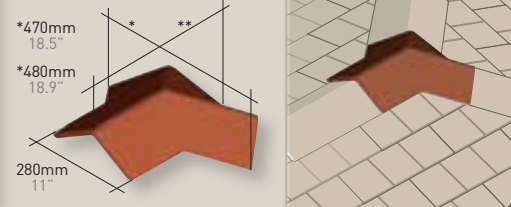


Atica 3 ways Ridge 120°

Q111

5100 gr
11.24 lbs

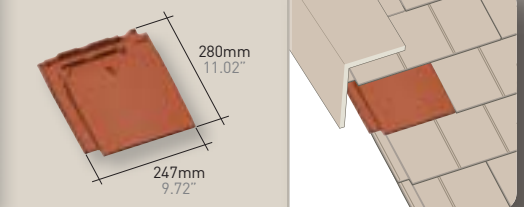
With Q90



Visum3 half roof tile

Q95

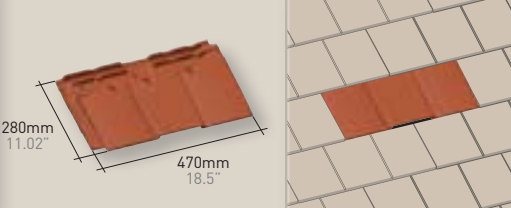
2300 gr
5.07 lbs



Visum3 ventilation roof tile

Q96

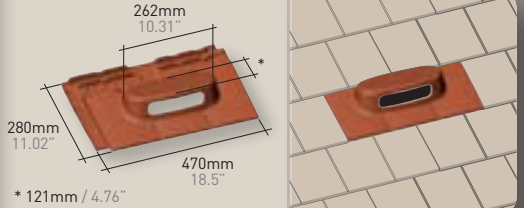
4500 gr
9.92 lbs



Visum3 chimney roof tile / Pipe tile

Q97

4700 gr
10.36 lbs



SLOPES / PITCHES

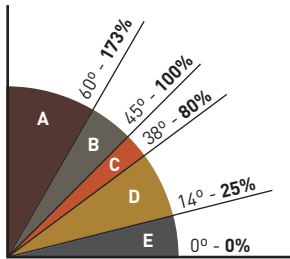
The minimum pitch standard recommendations should always be followed (see values in the referral table). On all pitches below the standard recommended minimums, or in regions where ice dams may occur, a waterproof underlayment on the entire deck **MUST** be applied. Most problems with water-shedding 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.

| | Hip < 6,5m < 21.32' | Hip 6,5m - 9,5m 21.32' - 31.16' | Hip 9,5m - 12m 31.16' - 39.37' |
|---|---------------------------|---------------------------------------|--------------------------------------|
| 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. | 50% / 26,5° | 50% / 26,5° | 55% / 29° |
| 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. | 50% / 26,5° 65% / 33° | 55% / 29° 75% / 37° | 65% / 33° 85% / 40,5° |

Note: For hips greater than 12m (39.4') long, a waterproof underlayment on the entire roof deck **MUST** be applied.

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

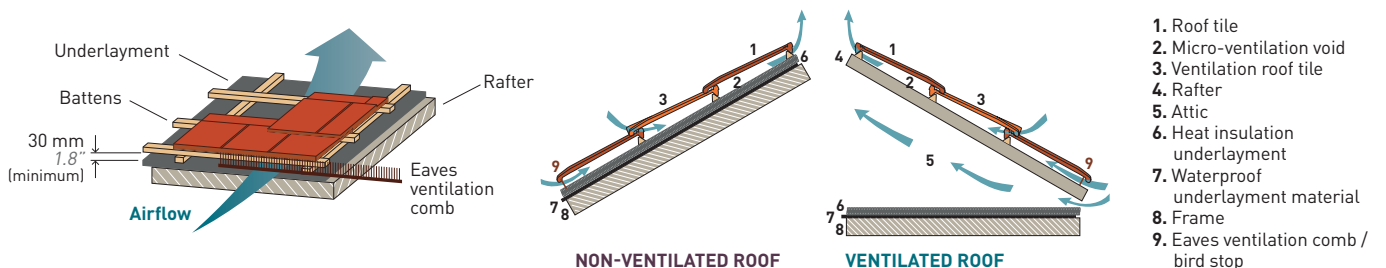
Ventilation is one of key elements to assure a good hygrothermal behavior of the roof and preservation of the roof structure. The key to a good and well preserved roof is a good ventilated roof. Proper installation of Ventilation tiles combined with ventilated roof can result in energy savings, in a 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 **Visum3 ventilation tile (Q96)** 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.



La Escandella

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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 Care Service.

This catalogue, printed in September 2014, replaces the existing ones.