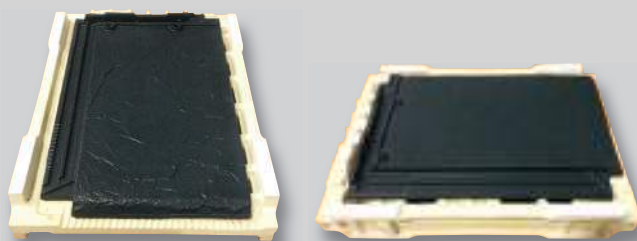


PLANUM





CERAMIC ROOF SOLUTIONS



Single H fire supports that allow the tiles to be fired individually at high temperatures, obtaining perfect definition.



PERFECTION IS TO REACH THE TOP. La Escandella stands once again by the latest technology, heavily investing in a new production line designed to optimize the finish of its products and creating a Premium product range. [Discover the new H-Selection line, made for excellence.](#)

H-Selection is the result of applying modern manufacturing processes in H-Cassette to a selection of our products, endowing them with numerous functional and aesthetic advantages and benefits.



Excellent flatness

Individual curing of each tile thanks to support in H. Excellent flatness with no contact points.



High definition on each piece

It provides a perfect definition on each piece, made with gypsum moulds, providing a much finer texture.



Low absorption

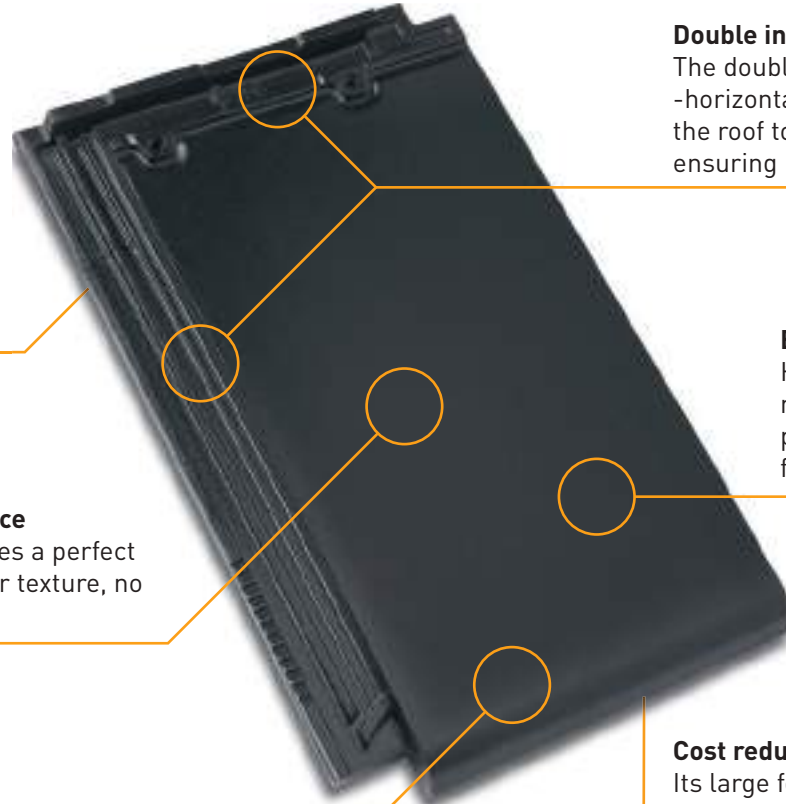
Higher resistance to ice and mould formation.



Lifetime warranty

Our 100 years of warranty ensure your peace of mind and demonstrate the quality of our manufacturing process.

PLANUM



Higher resistance

The clay composition together with the perfect pressing allows flexion higher than the required while only weighing 3.5 kg.

Double interlocking

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

High definition on each piece

The gypsum moulds provides a perfect finish, obtaining a smoother texture, no contact points nor creases.

Excellent flatness

H-Cassette manufacturing provides a perfect finish to each product.

Lower absorption (<5%)

High quality clay together with high firing temperature mean higher resistance to ice and mildew.

Cost reduction

Its large format (11 units/m²) and strapping every 5 units, as well as its packaging on pallets of 240 and 320 units, 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*	L: 444mm; W: 280mm; H: 32mm L: 17.48"; W: 11.02"; H: 1.26"
Pieces /m ² /sq.	11 / 101
Weight piece	3.5 kg / 7.71 lbs
Longitudinal fit **	370 mm (± 6 mm) / 14.57" (±0.23")
Transversal fit **	237 mm (+2 mm/-1 mm) / 9.33" (+0.08"; -0.04")
Units per pallet	240 / 320
Laying	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.



According to European standard



Test of frost resistance



Impermeability



Flexural strength test



Geometric characteristics



La Escandella
100 YEARS
GUARANTEE

PERFECTION AT THE
FOREFRONT OF DESIGN

FINISHES



TIRK
RED KLINKER



TIRRK
RUSTIC RED KLINKER



TIXK
GREY KLINKER



TIPK
SLATE KLINKER



TIYK
GALAXY KLINKER



Inspiring Colours

TIBUK

BURGUNDY KLINKER

TIJK

JASPEE RED KLINKER

TICEK

PEPPER KLINKER

TIBSK

BLACKSTONE KLINKER

TIMK

BROWN KLINKER

FINISHES

Design & colour variety
for **modern and vanguard**
architecture





TECHNICAL ADVANTAGES



1 LOWER ABSORPTION AND HIGHER FROST RESISTANCE

- Water absorption on Klinker H-Cassette tiles is lower than 5%.
- Higher resistance to ice and mildew.

2 INTERLOCKING

- 45mm interlocking > Large drainage rib.
- *Bigger watertightness.*



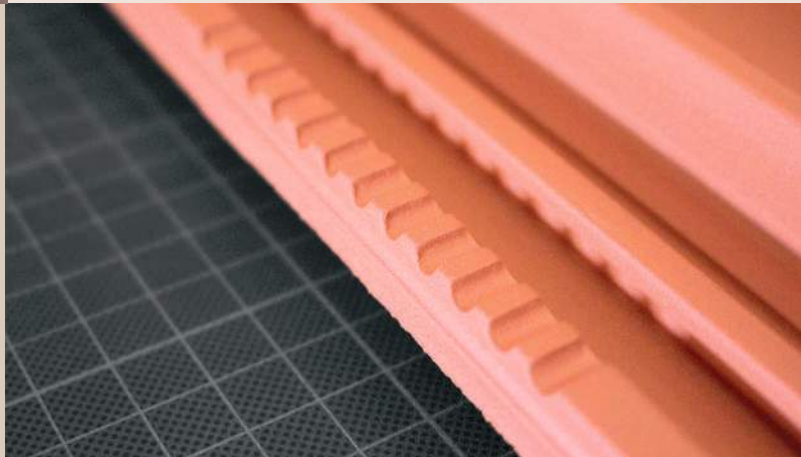
3 NAIL HOLE

- Pre-hole (easy to be nailed)
- *Less tile breakages when nailing.*



4 HOOK ATTACHMENT

- Sawtooth.
- *Easy hook fixing; one hook allows to fix 3 roof tiles at same time*



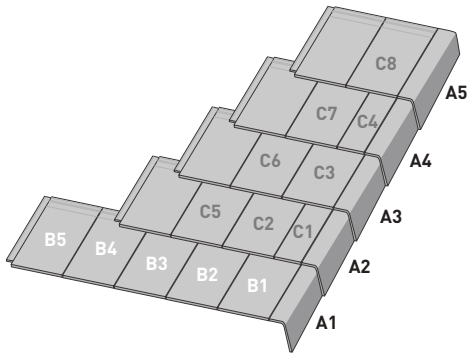


BEAUTY & DESIGN
ALL IN ONE



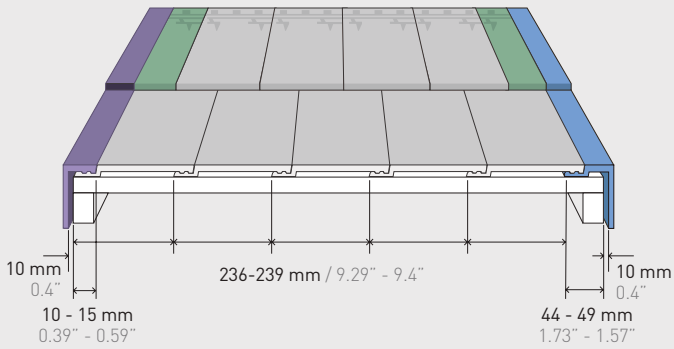
LAID METHOD

Planum roof tile can be laid on a continuous frame, which has to be completely flat in order to ensure the right laying of tiles and their fixing components (to avoid water-leaking); or 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 Planum roof tile is carried out by broken bond (also referred as cross bond) as follows:



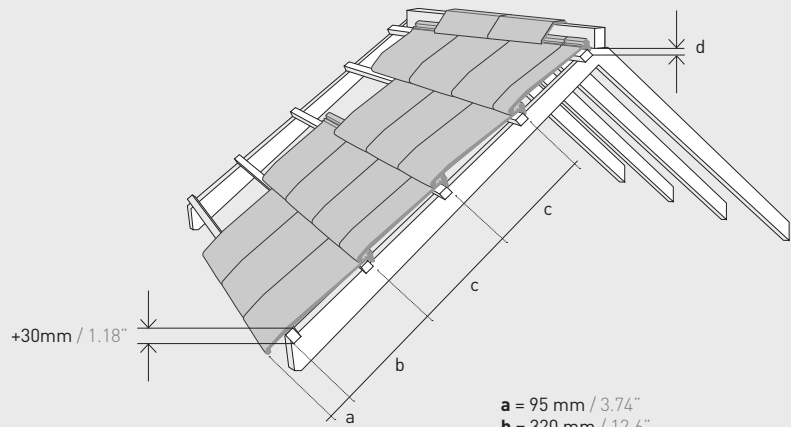
- A.** The starter course will begin with the Planum right side course (Rake trim - Q88*K) from the eave to the ridge.
- B.** The starter course will begin with a full tile (B1). The tiles structuring the eave will have to overlap the side course and fit together one to another.
- C.** The second course will be started with half tile (Q85*K) - (C1) and will be laid to provide the proper vertical exposure. This exposure is continued through each successive course. All joints of the second course and succeeding courses should be at the center line of the previous course, alternating half tiles (Q85K) and full tile at the start and at the end of each course.





- Planum roof tile
- Q85*K Planum Half roof tile
- Q88*K Planum right side course / rake
- Q89*K Planum left side course / rake

First course batten should be 30mm (1.18") higher than all succeeding course battens to provide a vertical alignment and to assure a symetrical installation.



- a = 95 mm / 3.74"
- b = 320 mm / 12.6"
- c = 364 - 376 mm / 14.33" - 14.8"
- d = 0-20 mm / 0 - 0.78" [Depending on the slope]



INSTALLATION DETAILS

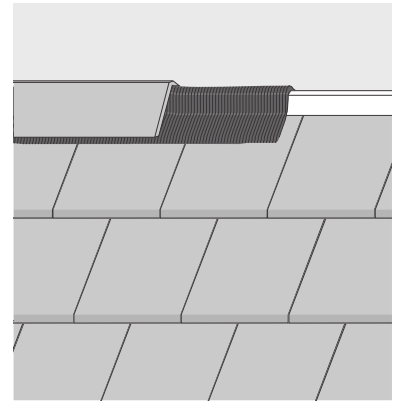
RIDGE

-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 self adhesive Alu-Roll (La Escandella Aluminum roll for hip and ridges - CAM01) or similar approved breathable waterproof underlayment. Underlayment should be secured over the ridge nailer with non-corrosive roofing nails.

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



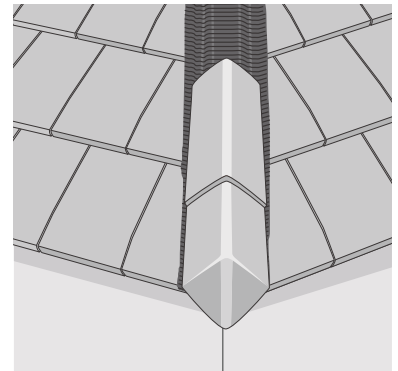
HIP

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

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

-All ridges and hips shall be covered with self adhesive Alu-Roll (La Escandella Aluminum roll for hip and ridges - CAM01) or similar approved breathable waterproof underlayment.

- Air should be able to flow through the ridge and hip area. Be sure not to close these off with mortar or similar. Closing them off could result in cracks, peeling off., in freezing and thawing cycles.



VALLEY

-Both Valley and eave line channel are particularly vulnerable to water migration and leakage. Valleys should have a clear and unobstructed pathway for quick water drainage.

-Install valley battens on each side of the valley crease. Alu-roll Valley (CAM18), or similar approved adhered waterproof valley underlayment, shall be laid vertically up all valleys in addition to other required underlayment that should be fixed by using glue, resin or similar.

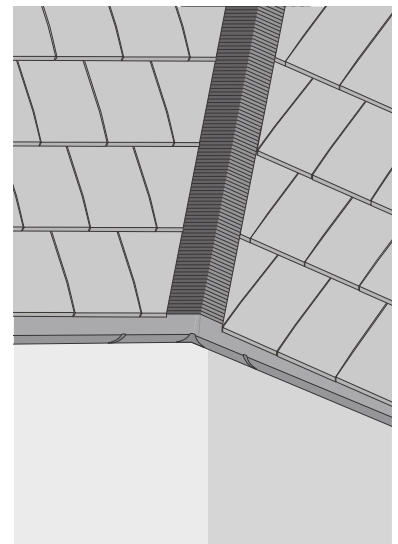
-Where valley intersects with ridge line, apply Alu-roll Valley (CAM18), or similar approved underlayment, which should be covered by the ridge tile. Valley should be extended along the eaves to overhang the fascia board by 5cm (2") or over the gutter.

-Tiles should be laid parallel to the valley line, at same relative angle and should overhang the valley battens by at least 10 cm (4").

-Tiles at each side of the valley crease should be laid to provide a minimum 15 cm (6") width gap (tiles should held back minimum 7.5 cm (3") from the center of the valley each way).

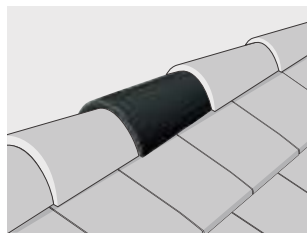
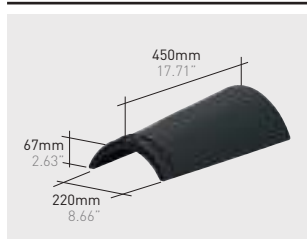
-Valley tiles must be secured.

-Proper Valley flashing installation is required to ensure water tightness in order to avoid cracks, peeling off,...



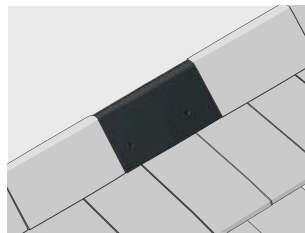
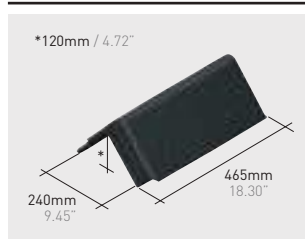
ACCESSORIES

Q02*K | Round ridge / Hip klinker



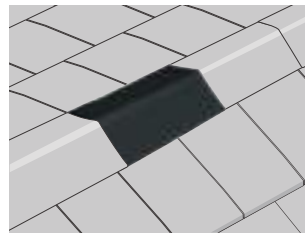
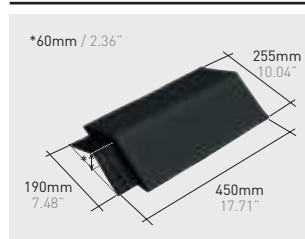
3,400 gr / 7.49 lbs 2.5 u./lm

Q91*K | Pyramid ridge-side course / Rake klinker



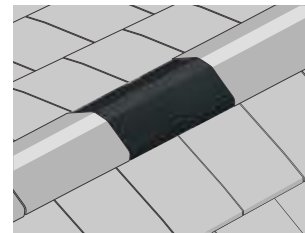
4,600 gr / 9.92 lbs 2.5 u./lm

Q90*K | Atica ridge 120° klinker



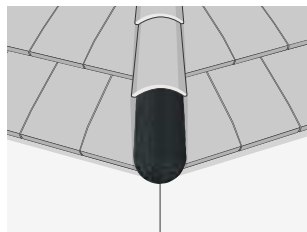
3,600 gr / 7.93 lbs 2.5 u./lm

Q120*K | Angular ridge klinker



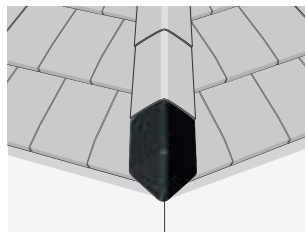
3,600 gr / 7.93 lbs 2.5 u./lm

Q04*K | Round ridge end / Hip starter klinker



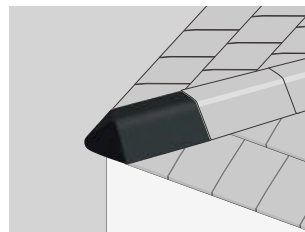
3,600 gr / 7.93 lbs with **Q02*K**

Q93*K | Pyramid end ridge klinker



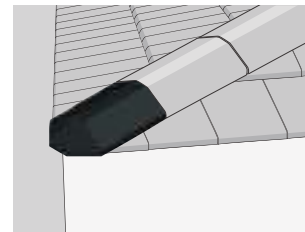
3,500 gr / 7.71 lbs with **Q91*K**

Q109*K | Atica 120° hip / end ridge klinker



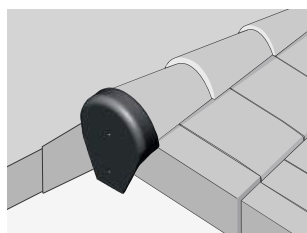
2,900 gr / 6.39 lbs with **Q90*K**

Q122*K | Angular hip / end ridge klinker



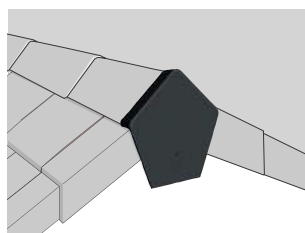
3,300 gr / 7.27 lbs with **Q120K**

Q83*K | End cap round ridge klinker



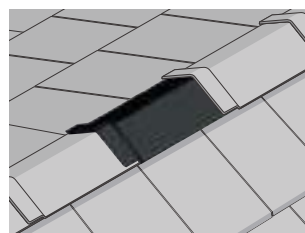
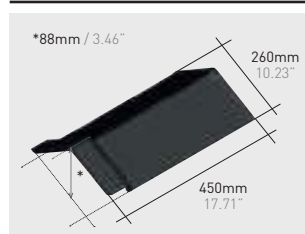
2,600 gr / 5.73 lbs with **Q02*K**

Q92*K | Pyramid end cap klinker



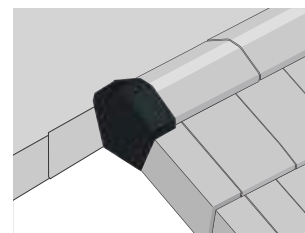
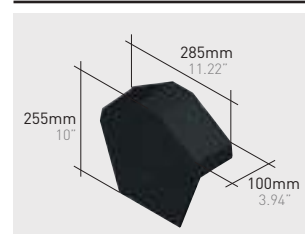
2,900 gr / 6.39 lbs with **Q91*K**

Q110*K | Atica collar ridge klinker



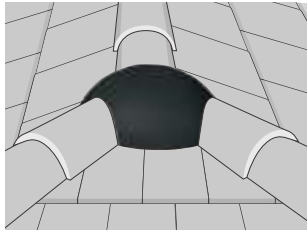
3,500 gr / 7.71 lbs 2.5 u./lm

Q124*K | Angular end cap klinker



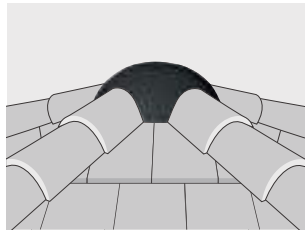
2,180 gr / 4.8 lbs with **Q120*K**

Q44*K | Round 3 way ridge klinker



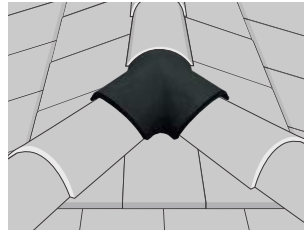
4,600 gr / 10.14 lbs with **Q02*K**

Q45*K | Round 4 way ridge klinker



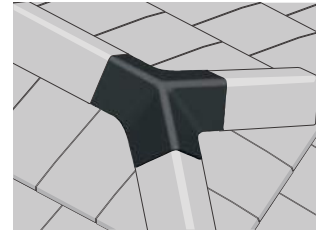
4,100 gr / 9.04 lbs with **Q02*K**

Q55*K | Round 3 way ridge female klinker



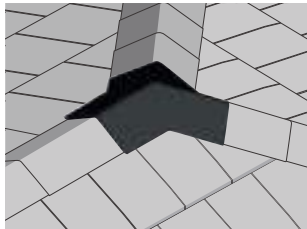
4,100 gr / 9.04 lbs with **Q02*K**

Q94*K | Pyramid triple ridge klinker



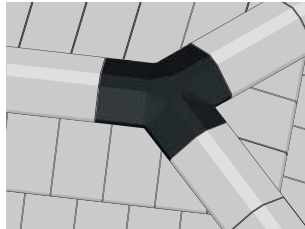
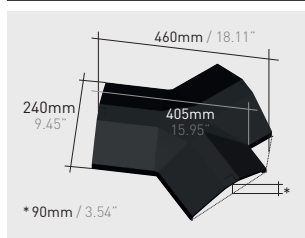
5,400 gr / 11.9 lbs with **Q91*K**

Q111*K | Atica 120° 3 way ridge klinker



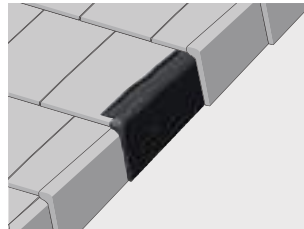
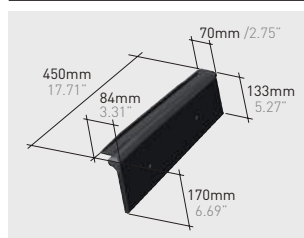
3,720 gr / 8.2 lbs with **Q120*K**

Q123*K | Angular 3 way ridge klinker



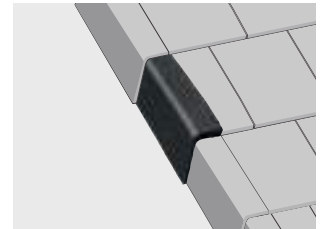
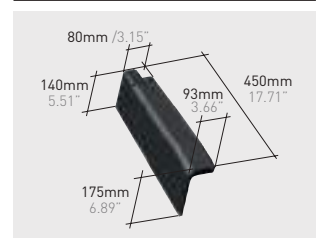
3,720 gr / 8.2 lbs with **Q120*K**

Q88*K | Planum right side course / Rake klinker



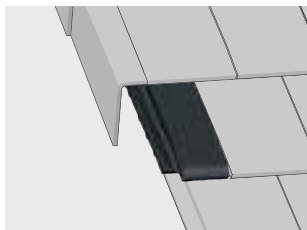
2,800 gr / 6.17 lbs 2.7 u./lm

Q89*K | Planum left side course / Rake klinker



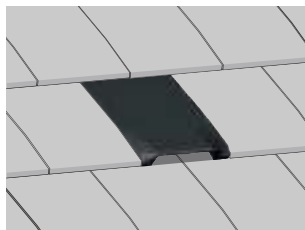
2,900 gr / 6.39 lbs 2.7 u./lm

Q85*K | Planum half roof tile klinker



2,200 gr / 6.39 lb

Q86*K | Planum ventilation roof tile klinker



3,500 gr / 4.85 lbs

Q87*K | Planum chimney / Pipe tile klinker

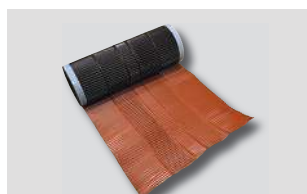


4,000 gr / 8.82 lbs

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

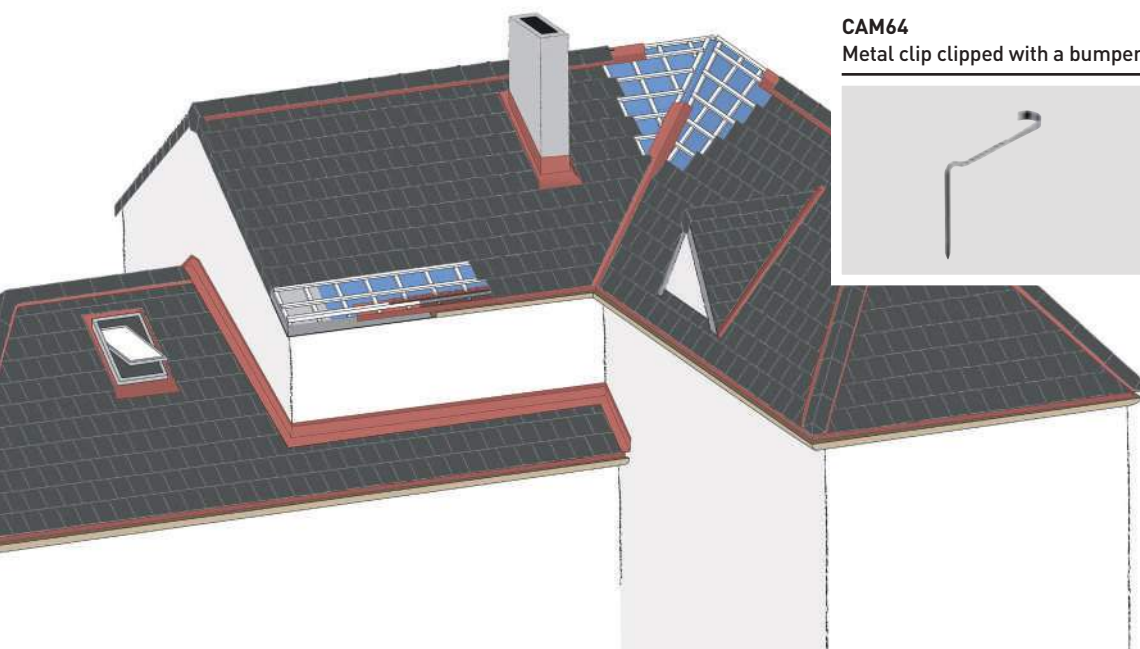
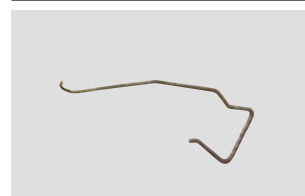


Dimensions: 6cm x 1m / 2.36" x 39.37"
Colours: Red, black.

CAM64
Metal clip clipped with a bumper



CAM59
Metal clip for wood battens



TECHNICAL INFORMATION

SLOPES / PITCHES

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

	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°	37% / 20,5°	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

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

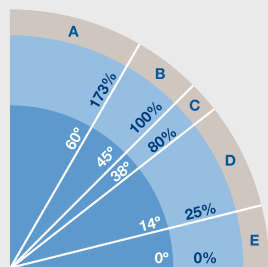
NORMAL LOCATIONS:: Flat area, plateau with minimal elevation changes.

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 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

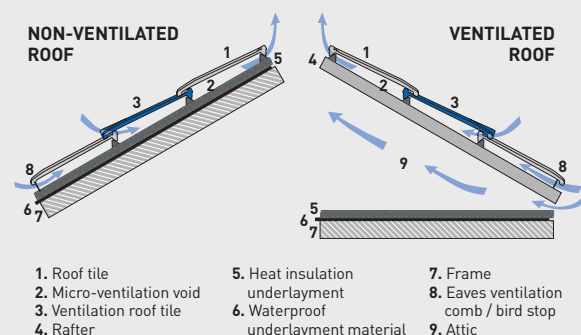
Ventilation is one of key elements to assure a good hygrothermal behavior of the roof and preservation of the roof structure. The key to a good and well preserved roof is a good ventilated roof. Proper installation of Ventilation tiles combined with ventilated roof can result in energy savings, in a 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 Planum ventilation tile (Q86K) 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.





SELECTION

La Escandella



www.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 Service.

This catalogue, printed in June 2018, replaces the existing ones.