

Occitane “Well-rounded” profile



BMI **MONIER**

CLAY TILE
Large format - Large curve tile

monier.fr

Occitane

- Marked projection on the flare
- “Well-rounded” profile
- Fitting tolerance
- Double side release



Overall dimensions in cm



TECHNICAL CHARACTERISTICS

Type	Clay roof tile Double lock and double lapping
Number of tiles per m ²	9.8 to 10.3
Variable gauge	42.1 to 42.9 cm
Variable gauge	23.2 to 23.8 cm**
Linear meter of battens/m ²	2.3 to 2.4 ml
Gutter ventilation section	250 cm ² /ml
Tile interlocking category	Class G2
Unit weight	≈ 4.2 kg
Weight per m ²	41.2 to 43.3 kg
Number of tiles per pallet	180
Weight per pallet	760 kg
Production site	Limoux-Massia
Laying	Laid with straight joints right to left
Product standard	NF EN 1304
Application standard	NF P 31-202 [DTU 40.21]
Minimal gradient*	19 % / 10°76' (Zone 1, sheltered site with underlay, sloping section < to 6.5 ml in horizontal projection)

* See the gradient table on the back of this document.

** Usual fitting tolerance stated apply from actual average gauges and widths checked on delivery as per DTU.

PRESCRIPTION RECOMMENDATION

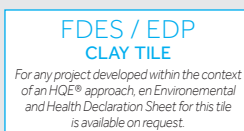
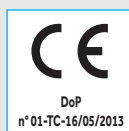
The tile will be in terracotta from the large-format bold-profile tile, double lock and double lapping, more or less 10 pieces per square meter with a roman aesthetic composed with two parts divided by a marked projection, type Occitane from Monier or similar.

Its usual fitting tolerance will be 0.8 cm long and 0.6 cm transverse.

It will be laid straight bond from right to left, on battens according to the standard of NF application NF P 31-202 [DTU 40.21].

Its installation will be carried out using all parts specially designed for dry mortarless laying of ridges and edges as specified in the DTU.

GUARANTEES



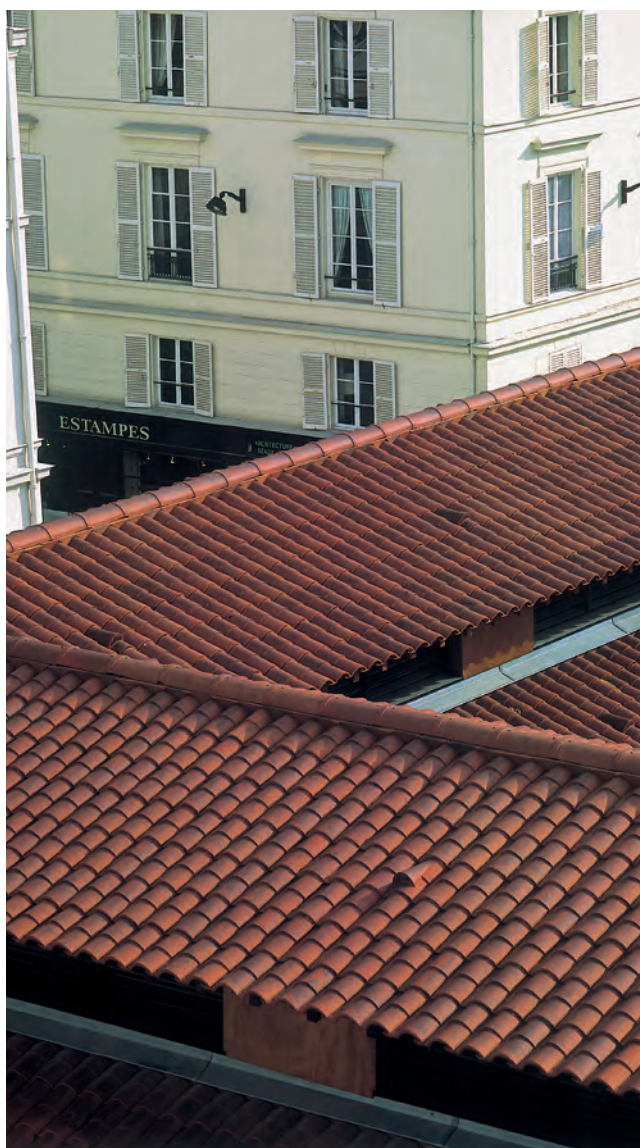
COLOURS



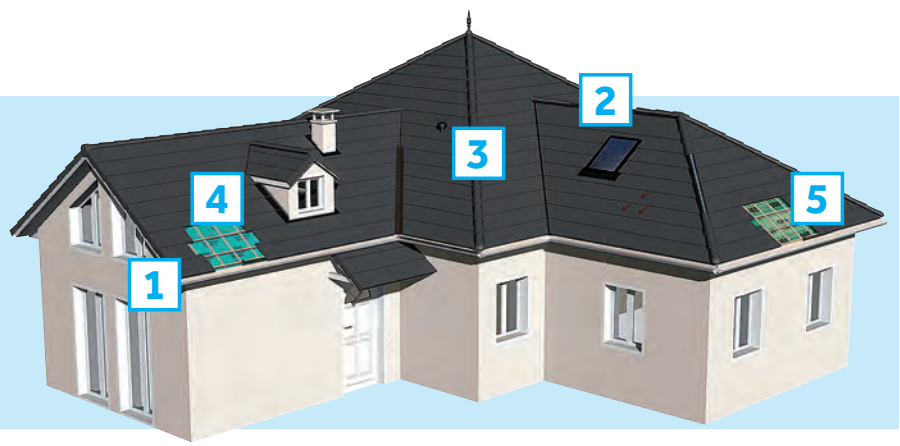
Antique Red (5D)



Coastal Silvacane (5A)



As a pioneer in the development of complete roofing systems, Monier has designed an innovative range according to the rules of the trade: terracotta and concrete tiles, roofing components and external thermal insulation. The professionals at Monier are authentic in their relationships and offer support and advice for their customers.



1 TRANSVERSE DISTRIBUTION ACCORDING TO EDGE ASSEMBLY

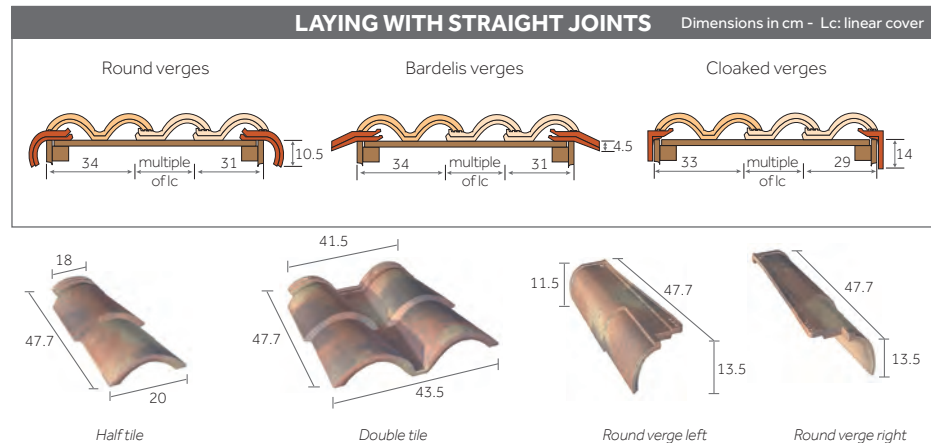
The wide range of Occitane fittings offers choice of three verge finishes:

- round verge,
- cloaked verge,
- bardelis verge.

Verges direction is determined by placing them facing the pitch.

A neoprene washer is used for fastening.

* Common accessories.
For more information, consult the Monier General Catalog

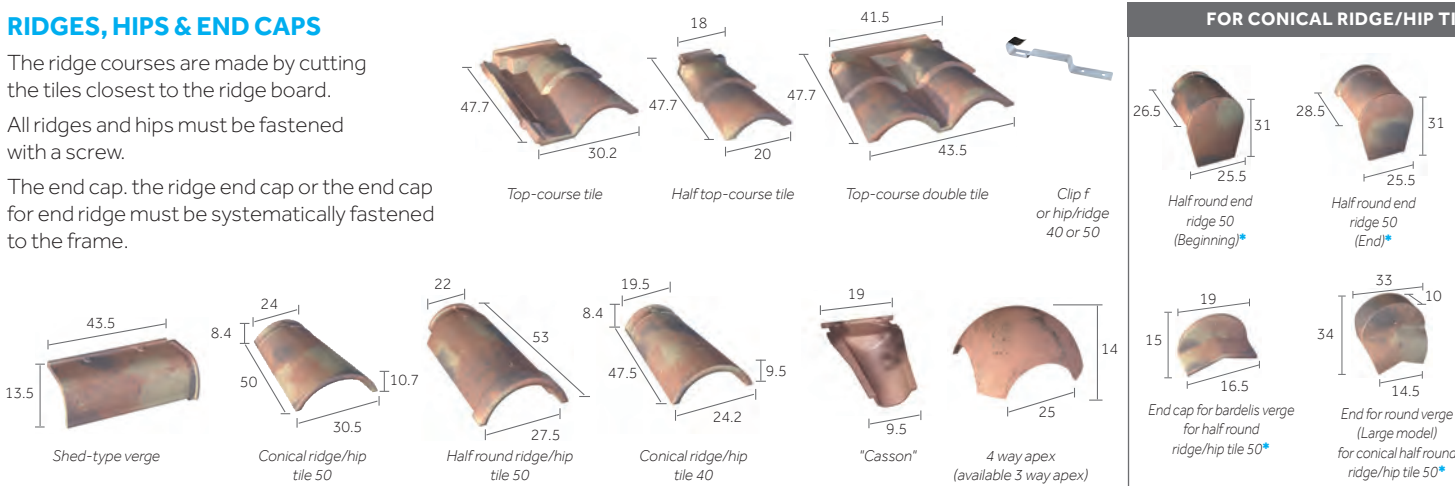


2 RIDGES, HIPS & END CAPS

The ridge courses are made by cutting the tiles closest to the ridge board.

All ridges and hips must be fastened with a screw.

The end cap, the ridge end cap or the end cap for end ridge must be systematically fastened to the frame.



3 AERATION, VENTILATION & ILLUMINATION

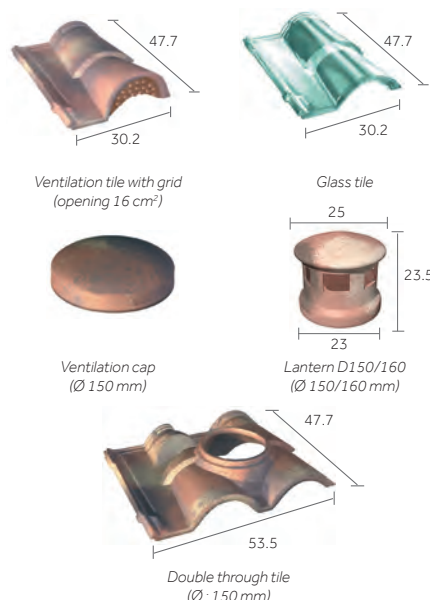
The underside of the tile and their support must be ventilated. This ensures overall correct behaviour of roofing components over time. The use of ventilation tiles is recommended at the upper and lower parts of the roof.

The total of ventilation openings must be distributed equally between lower part of the roof slope and near the ridge.

Ventilation in the upper part can be provided by the ventilated closure, in the lower part by the geometric shape of the tile (250 cm²/ml).

Humid or foul air outlets from the ventilation or extraction of living areas by forced mechanical ventilation or other systems, must be routed out of attic spaces.

Preferably, exhaust tiles are to be located at the top of the slope.



Type of attic	Total ventilation section ^(a)
Roof space not fitted out without barrier	$S = 1/5000$
Roof space not fitted out with barrier	$S1 = 1/5000$ $S2 = 1/3000^{(b)}$
Insulated sloping section without barrier	$S = 1/3000$
Insulated sloping section with barrier	$S1 = 1/5000$ $S2 = 1/3000$
Insulated sloping section with barrier highly permeable to water vapour and presence of continuous, independent vapour barrier	$S = 1/5000$

S marks the section of openings related to the volume to be ventilated between insulation and roofing elements.
S1 marks the section of openings related to the volume to be ventilated between barrier and roofing elements.
S2 marks the section of openings related to the volume to be ventilated between insulation and barrier ventilated underneath.

The use of an HPV screen necessarily implies the implementation of a continuous vapor barrier on the underside of the insulation.

MONIER RECOMMENDS DRY ASSEMBLY WITH VENTILATED CLOSURE MATERIAL ON A ROLL.

The dry assembly of a ridge/hip is quick to implement, guarantees ventilation and allows for later intervention.

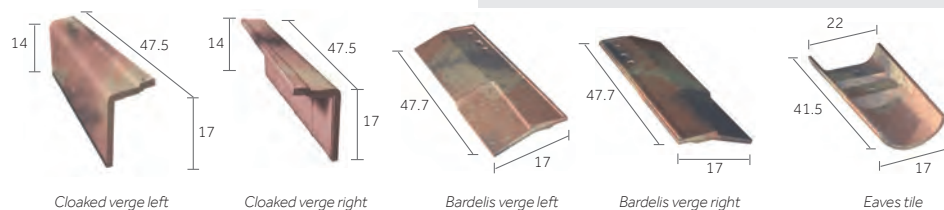
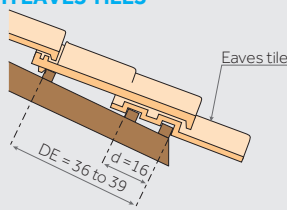
This system allows the ridge and the hip to adapt to the roof's natural movement.

WAKAFLEX® is the universal waterproofing solution for the treatment of individual roof areas. It is very easy to use and can be applied cold without welding.

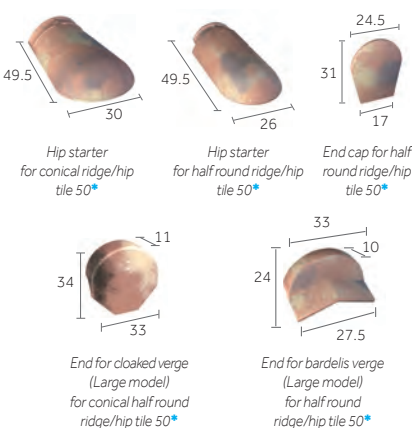


INSTALLATION WITH EAVES TILES

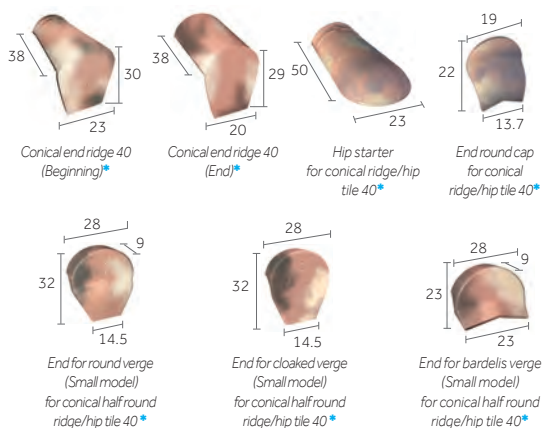
Dimensions in cm



FOR HALF ROUND RIDGE/HIP TILE 50



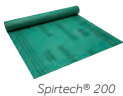
FOR CONICAL RIDGE/HIP TILE 40



4 UNDERLAYS

The underlays are mainly for:

- to ensure a complementary seal and protect the underlying premises against the penetration of powdery snow, dust, pollen, soot and water infiltration,
- to preserve the performance and the durability of the insulation in under face,
- allow to lower the slopes minimum cover when the DTUs provide for it.



For more information, consult the Monier General Catalog

5 OUTDOOR INSULATION SARKING

The sarking, thermal insulation process by the outside dedicated to the attic or developable, is to enhance the roof to insert a thin layer of insulation.

Monier offers a complete range:

- CLIMA FIRST®, quality at the best price,
- CLIMA COMFORT®, the high performance range.



For more information, consult the Monier General Catalog

THE ADVICE OF THE PRO

Trace over the ridge battens and double markers for the transverse draft of the tile.
In line of left bank, use the half-tile or the double tile. The double tile will allow you to get better stability.

DISTRIBUTED OVER THE LENGTH OF THE SLOPING SECTION

The eaves tile throws back and takes away from the wall rainy waters. It is used when there is no gutter. It is held in head by an intermediate batten and avoids the installation of the batten of fall.

All tiles on the eaves must be fastened.

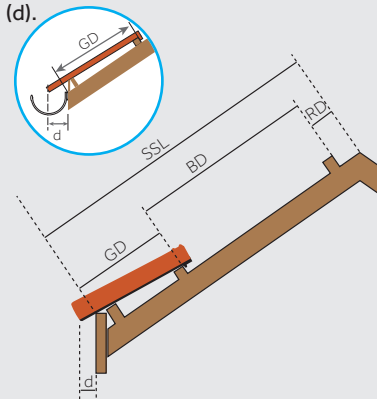
Please refer to the DTU in force :

- Europanneton® ABO Inox
- Clip E for eaves.

Laying of an eaves comb prevents rodent and bird intrusion. It is placed at the rake bottom, along the valley. The eaves finish with under-and-over tiles enables faultless work for roofs with no gutter. It is held by an intermediate batten.

The dimension GD mentioned by Monier will vary according to several parameters : height, gauge, roof pitch and overhang d, and may be adjusted to achieve the required overlap.

The interlocking part (water flow) must to be taken into account when defining dimensions GD and overhang distance (d).



SSL = Sloping Section Length

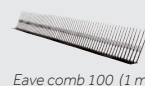
RD = Distance from batten to ridge

BD = Battening distance = 42.1 to 42.9 cm

GD = Distance from batten to gutter

This dimension is to be adjusted according to the projection of the gutter tile (dimension d) and the roof gradient.

d = Eaves overhang = 8 cm. The gutter projection is determined according to the type of gutter. The tile nib must be aligned ± 1 cm with the gutter



LAYING TILES IN A SQUARE LAYOUT

The attachments must be compliant with the requirements described in paragraph 5.4 of the D.T.U. 40.21 of october 2013. The regions in question are the ones on the wind map (reference NF EN 1991-1-4/NA).

The sites exposed to the winds shown on the wind map correspond to the situations defined in Appendix B of the D.T.U. 40.21 of october 2013.

All edging and guttering tiles are attached.

Use of Europanneton® ABO Inox recommended by Monier.

For violent winds, Monier recommends going beyond the DTU recommendation and therefore fastening all tiles.

THE REGULATIONS

MINIMUM PITCH TABLE IN %

MINIMUM ACCEPTABLE PITCHES IN % (WITH UNDERLAY)

Sites \ Zones	Rake length (ground plan)								
	up to 6.50 m			from 6.50 m to 9.50 m			from 9.50 m to 12 m		
	ZONE 1	ZONE 2	ZONE 3	ZONE 1	ZONE 2	ZONE 3	ZONE 1	ZONE 2	ZONE 3
Sheltered	19	21	23	22	24	26	23	26	30
Normal	21	23	26	24	27	31	27	30	34
Exposed	28	32	34	30	33	37	36	39	43

MINIMUM ACCEPTABLE PITCHES IN % (NO UNDERLAY)

Sites \ Zones	Rake length (ground plan)								
	up to 6.50 m			from 6.50 m to 9.50 m			from 9.50 m to 12 m		
	ZONE 1	ZONE 2	ZONE 3	ZONE 1	ZONE 2	ZONE 3	ZONE 1	ZONE 2	ZONE 3
Sheltered	25	27	30	28	32	36	32	35	40
Normal	25	27	30	28	32	36	32	35	40
Exposed	33	37	40	35	39	43	42	45	50

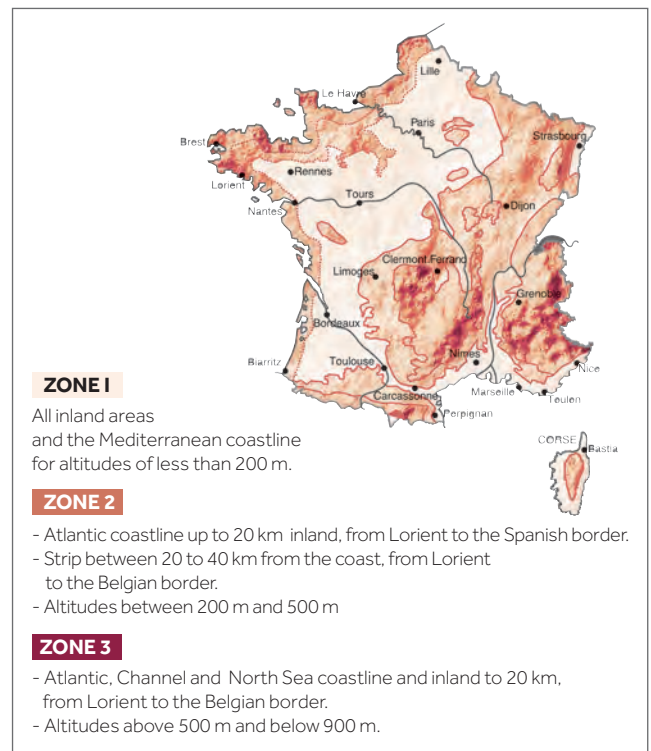
For lower slopes under derogation, consult the Monier General Catalog.

Snow Protection: Revised 40.2 DTUs indicate: the protection against powder snow by the installation of a underlay screen must be specified in the specific documents of the market. Its implementation falls under DTU 40.29.

ZONES FOR THE APPLICATION OF MINIMUM PITCHES

France is divided up into 3 zones for the application of minimum pitches (with regard to wind/rain concomitance).

Note: the map below is indicative, only the definitions areas prevail.



DEFINITION OF SITES ACCORDING TO THE DTU

SHELTERED SITUATION

Bottom of bowl bordered of hills on all its periphery and thus protected for all the directions of the wind.

NORMAL SITUATION

Plain or plateau of great extent that may have minor slopes of less than 10% slope (undulations, undulations).

EXPOSED SITUATION

In the vicinity of the sea: The coastline on a depth of about 5 km, the cliff tops, islands or narrow peninsulas.

Inside the country: The narrow valleys where the wind rushes, isolated and high mountains.

This division into three zones should not be confused with the division into Regions of Snow and Winds given in the rules NV.



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With 128 production facilities and operations in Europe, parts of Asia and Africa, the company brings more than 165 years of experience and employs over 9,500 employees.

BMI Group is headquartered in London.